Georgia Environmental Protection Division
Land Protection Branch
Response and Remediation Program
Response Development Units 1 – 3

2 Martin Luther King Jr. Dr. SE
Suite 1054 East Tower
Atlanta, Georgia 30334
Phone: 404-657-8600

Document Submittal Form

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Name of Document:	First VIRP Progress Report
Date of Document:	April 5, 2018
Site Name:	SECHEM, INC.
Site ID Number:	HSI No. 10515

Document Submittal Checklist. Please certify that the submittal includes the following by checking each box as appropriate. Items 1 – 3 should be checked / included / certified for each submittal:

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I certify that the information I am submitting is, to the best of my knowledge and belief, true, accurate, and complete.

Signature: Carol Northern

Name (printed): Carol D. Northern

Date: 4/5/2018

Organization: EarthCon Consultants, Inc.

Phone: 770-973-2100

Email: cnorthern@earthcon.com

Receipt Date
(for EPD use only)

EARTHCON®
Environmental Challenges
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April 5, 2018

VIA OVERNIGHT MAIL

Mr. Jason Metzger
Unit Coordinator
Response and Remediation Program
Georgia Department of Natural Resources
Environmental Protection Division
2 Martin Luther King, Jr. Drive, SE, Suite 1054 East
Atlanta, Georgia 30334

Subject: **Submittal of First VIRP Progress Report**
Response to Comment Letter Dated October 5, 2017
SECHEM, INC. – HSI Site No. 10515
4580 South Berkeley Lake Road
Norcross, Georgia

Dear Mr. Metzger:

On behalf of our client SECHEM, INC. (SECHEM), EarthCon Consultants, Inc. (EarthCon), is pleased to submit the First Voluntary Investigation and Remediation (VIRP) Progress Report for the SECHEM Site (HSI No. 10515) located in Norcross, Gwinnett County, Georgia. In addition, we are also providing a response to the Georgia Environmental Protection Division (EPD)'s October 5, 2017 comments on the VIRP, dated January 5, 2017. EPD's comments and our responses are as follows:

EPD Comment 1:
The following corrections are needed to the Georgia In-Stream Water Quality Standards (GA ISWQS) shown in Table 2:

a. *The GA ISWQS for 1,2-dichlorobenzene should be 1.3 mg/L, not 13 mg/L.*
b. *The GA ISWQS for 1,1-dichloroethane should be 7.1 mg/L, not 71 mg/L.*
c. *The GA ISWQS for ethylbenzene should be 2.1 mg/L, not 21 mg/L.*

SECHEM Response:
Comment b. should read "1,1-dichloroethene" rather than "1,1-dichloroethane". Table 2 of the VIRP has been revised accordingly and will be submitted under separate cover. These values are shown in Table 4 of the First VIRP Progress Report.

EPD Comment 2:
Please revise Table 4 to specifically show the twelve-month, twenty-four month and thirty-month milestones (as noted on the VRP application form).

SECHEM Response:
Table 4 will be revised and submitted under separate cover. These milestones are provided in Table 7-Projected Milestone Schedule, included in the attached First VIRP Progress Report.

EPD Comment 3:
In the interim since the VRP application was submitted, there appear to have been changes to tax parcel 6269 011 and tax parcel 6269 004. Please verify the changes and update Appendix A of the VIRP application, accordingly. Warranty deeds and tax parcel maps are needed for all qualifying properties.

SECHEM Response:
The update to Appendix A will be submitted under separate cover. Figures included in the attached First VIRP Progress Report have been updated to reflect the tax parcel changes.

EPD Comment 4:
In regards to section 4.6.2 Environmental Receptors, the intermittent stream should be reexamined to determine if conditions have changed since the assessment that was presented in the 2000 CSR. Please contact the U.S. Fish and Wildlife Service to verify what fauna or flora may be found in the area and what aquatic life may be found in the intermittent stream.

SECHEM Response:
SECHEM will verify what fauna and flora may be found in the area and what aquatic life may be found in the intermittent stream. The findings will be submitted in a future Progress Report.

EPD Comment 5:
The following exposure pathways should be evaluated:

a. The soil and groundwater pathways should be evaluated once delineation is completed.
b. The vapor intrusion pathway should be addressed for the on-site building.
c. *An ecological risk assessment should be conducted to assess impacts to surface water and sediment.*

SECHEM Response:
Comment noted.

EPD Comment 6:
The most recent soil data presented from 2013 (Appendix D, Table 3) shows several constituents that exceeded Type 1 and 3 Risk Reduction Standards (RRS). Please describe how soil will be brought into compliance with applicable RRS. Areas exceeding soil delineation standards and RRS should be clearly shown on a map.

SECHEM Response:
Comment noted.

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We appreciate the time EPD has taken to review our submittals. If you have any questions or comments regarding the First VIRP Progress Report, please feel free to contact the undersigned at (770) 973-2100.

Sincerely,

Alison Levinson, P.G.
Senior Geologist

Carol D. Northern, P.G.
Principal Geologist

Attachment: First VIRP Progress Report

cc: Ms. Susan Kibler, GA EPD
Ms. Rachel L. Odzer, SECHEM
Mr. Stephen P. Holt, P.E., SECHEM

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FIRST VIRP PROGRESS REPORT

SECHEM, INC.
4580 SOUTH BERKELEY LAKE ROAD
NORCROSS, GWINNETT, COUNTY, GEORGIA 30092
HSI SITE NUMBER 10515

PREPARED FOR:

SECHEM, INC.
CORPORATE ENVIRONMENTAL DEPARTMENT
654 JUDGE STREET
HARLEYVILLE, SOUTH CAROLINA 29448

PREPARED BY:

EARTHCON CONSULTANTS, INC.
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MARIETTA, GEORGIA 30062
770-973-2100

EarthCon Project No. 02.2018044.00

April 2018

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PG CERTIFICATION

"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Carol D. Northern, P.G.
Principal Geologist

Registration No. 793
State of Georgia

Date: 4/4/18

1.0 INTRODUCTION

The former SECHEM, INC. (SECHEM) facility (referred to herein as the Property) is located at 4580 South Berkeley Lake Road in Norcross, Gwinnett County, Georgia. The Property is listed on the Hazardous Site Inventory (HSI) as SECHEM, INC., HSI Site #10515. The adjacent Youngblood Farms Investments, L.P. (YFI) property is sublisted under HSI Site #10515 (the Site). The Property is owned by SECHEM, INC., a fourth tier subsidiary of the Giant Cement Holding, Inc. (GCHI). The Property location and Site layout are shown on Figures 1 and 2, respectively. The Voluntary Investigation and Remediation Plan (VIRP) Application for the Site was submitted to the Georgia Environmental Protection Division (EPD) on January 5, 2017, and was approved by EPD in a letter dated October 5, 2017. This First VIRP Progress Report provides a summary of activities conducted at the Site from March 2017 through February 2018.

2.0 SUMMARY OF SITE ACTIVITIES

SECHEM and EarthCon Consultants, Inc. (EarthCon) met with EPD on October 4, 2016 and recommended deactivation of the air sparge/soil vapor extraction (AS/SVE) system that had been in operation at the Site since 2008. This recommendation was made due to a decrease in the system's mass recovery rates and to monitor contaminant rebound. A formal request to deactivate the system was submitted to EPD in a letter dated December 9, 2016, and the request was approved by EPD on December 20, 2016. The AS/SVE system was deactivated on January 9, 2017.

During this reporting period, two semi-annual groundwater and surface water sampling events were conducted, in March and September 2017.

In a letter dated October 5, 2017, EPD provided comments on the January 2017 VIRP Application. SECHEM's response to these comments is provided in the cover letter to this report. Comments that have not been addressed in this report will be addressed in future VIRP Progress Reports.

2.1 Groundwater

Semi-annual sampling events were conducted in March and September 2017. Static water levels were measured on March 20 and September 13, 2017. Twenty-four monitoring wells were sampled during the March 2017 sampling event and twenty-three monitoring wells were sampled during the September 2017 sampling event. Monitoring well YMW-15 was not sampled in September due to suspected sedimentation of the well screen. This well will be redeveloped prior to the March 2018 sampling event to attempt to remove the sediment. The locations of the monitoring wells are shown on Figure 2. The monitoring well construction details are presented in Table 1 and the water level measurements are presented in Table 2. Field parameters for the March and September 2017 sampling events are provided in Table 3. A description of the field

procedures is presented in Appendix A and the groundwater sampling field forms are provided in Appendix B.

2.2 Surface Water

Surface water samples were collected from four sample locations, SW-1, SW-2, SW-3, and SW-4 on March 20, 2017 and September 18, 2017. The surface water sample locations are shown on Figure 2. A description of the field procedures is provided in Appendix A and the field sampling forms are provided in Appendix B.

3.0 ANALYTICAL RESULTS

The groundwater and surface water analytical results are discussed below. The groundwater and surface water analytical results are summarized in Tables 4 and 5, respectively. The laboratory analytical reports are provided in Appendix C.

3.1 Groundwater Analytical Results

Groundwater sampling events were conducted March 21 through 23, and September 13 through 15, 2017. Groundwater samples were collected from 24 monitoring wells in March and from 23 wells in September. The groundwater samples were shipped to TestAmerica Savannah, a NELAC-certified laboratory located, in Savannah GA, to be analyzed for volatile organic compounds (VOCs) by EPA Method 8260B and 1,4 dioxane by EPA Method 8260B SIM. A summary of groundwater analytical results is presented in Table 4.

The March 2017 groundwater sampling event resulted in detections of 25 regulated substances at concentrations above laboratory reporting limits (Table 4). Of those, 15 constituents were detected at concentrations above the delineation criteria (Type I Risk Reduction Standards) including: 1,1,2-trichloroethane, 1,1-dichloroethene, 1,2-dichlorobenzene, 1,2-dichloroethane, 1,4-dichlorobenzene, 4-methyl-2-pentanone, acetone, benzene, chlorobenzene, cis-1,2-dichloroethene, isopropylbenzene, naphthalene, tetrachloroethene, trichloroethene, vinyl chloride and 1,4-dioxane.

The September 2017 groundwater sampling event resulted in detections of 23 regulated substances at concentrations above laboratory reporting limits (Table 4). Of those, 14 constituents were detected at concentrations above the delineation criteria including: 1,1,2-trichloroethane, 1,1-dichloroethene, 1,2-dichlorobenzene, 1,2-dichloroethane, 1,4-dichlorobenzene, 4-methyl-2-pentanone, benzene, chlorobenzene, cis-1,2-dichloroethene, isopropylbenzene, tetrachloroethene, trichloroethene, vinyl chloride and 1,4-dioxane.

3.2 Surface Water Analytical Results

On March 23 and September 18, 2017, surface water samples were collected at locations SW-1 SW-2, SW-3 and SW-4. The samples were analyzed for VOCs by EPA Method 8260B and 1,4 dioxane by EPA Method 8260B SIM. Results of the analyses are summarized in Table 5.

Three VOCs were detected at concentrations above the Georgia Instream Water Quality Standard (GA ISWQS) in the surface water samples collected from location SW-1 and SW-2 in March 2017. In September, three VOCs were detected at concentrations above the GA ISWQS in the SW-1 sample and two VOCs were detected in the SW-2 sample. VOCs were not detected at concentrations above the GA ISWQSs in the samples collected in March and September from downstream sampling locations SW-3 and SW-4, which are located off-site.

4.0 CONCEPTUAL SITE MODEL

4.1 Source Areas

Constituents of concern (COCs) were identified in soil and groundwater on the Property and in soil, groundwater, and surface water on the adjacent YFI property. Soil contamination was primarily located to the west of the drum shed on the Property and follows the course of the drainage ditch down-gradient to the adjacent YFI property. The groundwater contaminant plume is located on the Property and extends onto the adjacent YFI property. The two probable sources of soil and groundwater contamination are the former AST farm and the drum shed (Figure 2).

4.2 Groundwater Flow

The water level measurements collected on September 13, 2017 (Table 2) were used to develop a potentiometric surface map for the Site. As shown on Figure 3, groundwater elevation data indicates groundwater flow on the Site is to the west and southwest toward the intermittent stream.

4.3 Extent of Groundwater Impacts

Based on analytical results from the most recent groundwater sampling event conducted in September 2017, 23 regulated substances were detected in groundwater at the Site at concentrations above laboratory detection limits and 14 constituents were detected above their respective delineation criteria. The groundwater concentrations for total VOCs detected above delineation criteria are shown on the cross-sections provided as Figures 4 and 5. The locations of the cross-section lines are shown on Figure 2. Groundwater plume isoconcentration maps were prepared using the September 2017 data for six of the primary COCs (tetrachloroethene, trichloroethene, 1,1-dichlorothethene, 1,2-dichloroethene, vinyl chloride, and 1,2-dichloroethane) are provided as Figures 7 through 12, respectively.

4.4 Extent of Surface Water Impacts

Surface water samples were collected from locations SW-1, SW-2, SW-3, and SW-4 on March 23, 2017 and September 18, 2017. As shown in Table 5, concentrations of tetrachloroethene, trichloroethene, and vinyl chloride exceeded the GA ISWQS at locations SW-1 and SW-2, located on the portion of the Site formerly owned by Youngblood Farms, Inc. COCs were not detected at concentrations above the GA ISWQS in the samples collected from downstream sampling locations SW-3 and SW-4, which are located off-site. The concentrations exceeding the GA ISWQS appear to be limited to the segment of the stream near the intermittent spring, which appears to discharge groundwater from the SECHEM facility and up-gradient portions of the adjacent YFI property.

5.0 RECOMMENDATIONS

Current and historical data will be evaluated to determine if additional soil and groundwater samples are needed to complete delineation. Based on the evaluation conducted during this reporting period, semi-annual groundwater monitoring will continue.

6.0 MONTHLY INVOICE SUMMARY

EPD requires that a professional engineer or geologist oversee the implementation of the VIRP in accordance with the provisions, purposes, standards and policies of the Georgia Voluntary Remediation Program Act. From October 2017 thru March 2018, Ms. Carol D. Northern, P.G., invoiced 7 hours to this project. A monthly summary of hours invoiced, and a description of services provided is shown in Table 6.

7.0 SCHEDULE

A project schedule for activities described in this VIRP is provided in Table 7. SECHEM expects to conduct the following activities during the second 6-month reporting period following the Property's enrollment into the VRP:

- Semi-annual groundwater and surface water sampling events scheduled for March and September 2018; and
- Horizontal delineation on accessible properties, if necessary.

The Second VIRP Progress Report will be submitted by October 5, 2018.

TABLES

TABLE 1
MONITORING WELL CONSTRUCTION DETAILS

Monitoring Well	Installation Date	Total Depth feet, BGS	Screened Interval, feet BGS		Screen Length feet	Screened Zone	Top of Casing Elevation feet
			Top	Bottom			
SECHEM Property							
SMW-1	2/25/1997	45	35	45	10	OVB	1089.61
SMW-2	2/25/1997	39	29	39	10	OVB	1074.74
SMW-3	2/26/1997	40	30	40	10	OVB	1086.73
SMW-4	2/26/1997	40	30	40	10	OVB	1085.53
SG-5	7/20/2000	37.5	27.5	37.5	10	OVB	1087.55
SRW-1	NA	66	56	66	10	NA	1073.62
Weeks Landscaping Property							
WMW-1	2/28/2002	59	49	59	10	OVB	1083.98
WMW-2	2/27/2002	50	40	50	10	OVB	1084.70
Hand Property							
HMW-1	2/25/2002	63.5	53.5	63.5	10	OVB	1070.72
HMW-2	2/26/2002	67	57	67	10	OVB	1075.66
YFI Property							
YMW-1	8/17/1995	39	24	39	15	OVB	1071.49
YMW-2	8/17/1995	19	9	19	10	OVB	1056.35
YMW-4	8/7/1996	35	25	35	10	OVB	1072.07
YMW-5	8/8/1996	34	24	34	10	OVB	1050.62
YMW-6	8/1996	25	15	25	10	OVB	1050.43
YMW-7	8/9/1996	21	11	21	10	OVB	1037.15
YMW-8	8/9/1996	30	20	30	10	OVB	1060.00
YMW-9	8/9/2016	23.5	14	24	10	OVB	1044.92
YMW-10	8/10/1996	24	14	24	10	OVB	1039.80
YMW-11	8/10/1996	24	14	24	10	OVB	1036.11
YMW-13	8/11/1996	29	19	29	10	OVB	1057.08
YMW-14	8/11/1996	19	9	19	10	OVB	1045.24
YMW-15	7/26/2000	50	45	50	5	BDRK	1051.88
YMW-16	7/25/2000	34	29	34	5	BDRK	1038.94
YMW-17	2/28/2002	53	43	53	10	OVB	1057.97
YMW-18	2/27/2002	53	43	53	10	OVB	1051.25
YMW-19	3/11/2002	100	95	100	5	BDRK	1072.33
YG-1	7/21/2000	16	6	16	10	OVB	1040.89
YG-6	9/12/2000	12	7	12	5	OVB	1036.99

Notes

BGS - below ground surface
OVB - overburden
PWR - partially weathered rock
NA- not available.
These well construction details are based on information provided in the *Corrective Action Program 2015 Annual Report* , prepared by Golder Assoiciates, Inc. and dated April 2016.

Prepared by: RLA 10/31/2017
Checked by: KAH 2/22/2018

TABLE 2
SUMMARY OF GROUNDWATER ELEVATION DATA

Location	Top of Casing Elevation (feet MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
		March 20, 2017		September 13, 2017	
SECHEM Property					
SMW-1	1089.61	31.65	1057.96	30.15	1059.46
SMW-2	1074.74	29.06	1045.68	28.04	1046.70
SMW-3	1086.73	34.40	1052.33	32.96	1053.77
SMW-4	1085.53	28.80	1056.73	27.15	1059.38
SG-5	1087.55	34.15	1053.40	32.71	1054.84
SRW-1	1073.62	28.51	1045.11	27.45	1046.17
Weeks Landscaping Property					
WMW-1	1083.98	33.31	1050.67	32.40	1051.58
WMW-2	1084.70	26.82	1057.88	27.58	1057.12
Hand Property					
HMW-1	1070.72	20.30	1050.42	19.36	1051.36
HMW-2	1075.66	21.76	1053.90	21.45	1054.21
YFI Property					
YMW-1	1071.49	28.72	1042.77	28.07	1043.42
YMW-2	1056.35	15.54	1040.81	16.20	1040.15
YMW-4	1072.07	33.62	1038.45	32.98	1039.09
YMW-5	1050.62	15.67	1034.95	15.77	1034.85
YMW-6	1050.43	18.35	1032.08	18.48	1031.95
YMW-7	1037.15	5.52	1031.63	5.63	1031.52
YMW-8	1060.00	20.60	1039.40	20.62	1039.38
YMW-9	1044.92	7.92	1037.00	7.89	1037.03
YMW-10	1039.80	6.40	1033.40	6.61	1033.19
YMW-11	1036.11	4.77	1031.34	5.38	1030.73
YMW-13	1057.08	22.74	1034.34	22.79	1034.29
YMW-14	1045.24	9.96	1035.28	10.02	1035.22
YMW-15	1051.88	17.02	1034.86	17.06	1034.82
YMW-16	1038.94	5.74	1033.20	5.75	1033.19
YMW-17	1057.97	11.72	1046.25	12.77	1045.20
YMW-18	1051.25	13.42	1037.83	13.67	1037.58
YMW-19	1072.33	28.02	1044.31	27.20	1045.13
YG-1	1040.89	7.61	1033.28	7.72	1033.17
YG-6	1036.99	7.95	1029.04	8.03	1028.96

Notes

MSL - Mean sea level

TOC -Measured from top of casing

Prepared By: CN 10/10/2017
Checked By: RLA 10/31/17

TABLE 3
FIELD PARAMETERS

Sample Location	Date	Temperature °C	pH S.U.	Dissolved Oxygen mg/L	ORP mV	Conductivity µs/cm	Turbidity NTU
SECHEM Property							
SMW-1	3/21/17	18.79	4.55	2.86	220.9	108	2.17
	9/14/17	20.02	6.76	3.81	31.4	221.5	5.92
SMW-2	3/21/17	16.40	6.83	0.24	-26.9	-230.8	4.36
	9/18/17	19.19	6.58	0.32	46.1	130.1	7.44
SMW-3	3/21/17	19.58	6.33	0.22	-62.9	198	2.93
	9/14/17	19.94	6.46	0.66	-27.2	202.7	0.87
SMW-4	3/21/17	19.80	4.81	7.17	73.9	55.3	7.11
	9/13/17	21.51	5.11	7.48	26.2	48.7	0.97
SRW-1	3/21/17	17.30	6.23	6.19	25.7	58.9	1.55
	9/14/17	19.77	5.72	7.31	5.3	55	2.42
Weeks Landscaping Property							
WMW-1	3/21/17	21.62	6.77	3.31	0.9	88	7.21
	9/14/17	22.76	6.73	0.56	-19.7	93.2	48.9
Hand Property							
HMW-1	3/20/17	15.80	6.16	6.96	81.0	73	4.53
	9/13/17	18.75	6.49	6.49	30.7	74.4	2.28
YFI Property							
YMW-1	3/21/17	16.50	6.21	0.28	-51.8	88.4	9.92
	9/14/17	18.59	5.69	1.51	-3.2	76	8.08
YMW-2	3/22/17	16.79	5.46	0.77	184.7	63	4.19
	9/18/17	18.94	5.14	8.52	-38.9	76	2.04
YMW-4	3/21/17	17.68	5.52	3.05	219.9	75	8.16
	9/14/17	18.59	5.87	3.82	44.2	73	6.46
YMW-5	3/23/17	15.63	6.16	0.47	64.8	276	6.13
	9/14/17	17.55	6.08	3.80	-62.5	256	6.57
YMW-6	3/22/17	15.25	5.79	3.22	184.5	69	0.27
	9/15/17	16.71	7.09	3.94	67.8	66.9	0.23
YMW-7	3/22/17	12.70	5.85	3.51	37.0	81.2	0.60
	9/15/17	18.66	7.11	4.00	66.3	85.9	0.68
YMW-8	3/23/17	17.81	5.88	4.69	285.6	46	7.77
	9/18/17	17.77	6.45	6.00	63.4	51.6	2.53
YMW-9	3/22/17	12.80	5.16	3.50	-4.5	101.6	2.63
	9/15/17	18.23	4.92	6.25	35.9	105	2.39
YMW-10	3/22/17	13.70	5.87	0.47	-49.6	192.1	9.76
	9/15/17	17.60	5.78	3.74	-21.7	171	1.29

TABLE 3

FIELD PARAMETERS

Sample Location	Date	Temperature °C	pH S.U.	Dissolved Oxygen mg/L	ORP mV	Conductivity µs/cm	Turbidity NTU
YMW-11	3/22/17	12.90	5.84	3.70	19.8	88.3	7.99
	9/15/17	17.99	7.13	3.70	65.2	92.5	2.24
YMW-13	3/22/17	16.65	5.22	1.20	223.6	70	2.61
	9/14/17	18.07	4.92	3.91	-47.0	65	3.06
YMW-14	3/22/17	15.59	5.22	0.66	153.8	103	7.10
	9/18/17	20.36	4.92	9.44	-36.1	99	1.63
YMW-15	3/22/17	16.47	6.33	0.46	42.9	191	0.0
	9/14/17	--	--	--	--	--	--
YMW-16	3/22/17	13.50	6.08	1.24	-16.5	132.6	0.25
	9/15/17	17.78	6.13	4.85	-10.9	131	0.18
YMW-17	3/23/17	15.56	6.34	6.76	176.7	51	0.0
	9/18/17	18.10	5.33	8.82	66.5	40	1.16
YMW-18	3/23/17	14.95	6.71	3.50	246.6	81	2.04
	9/18/17	17.56	7.00	4.51	74.5	97.5	1.3
YMW-19	3/21/17	15.20	6.72	5.57	39.2	90.8	5.24
	9/13/17	18.88	6.45	5.90	26.7	77	9.2

Notes

mg/L - milligrams per liter
mV - millivolts
S.U. Standard Units
µs/cm - microsiemens per centimeter
NTU - nephelometric turbidity units
-- Not sampled.

Prepared by: CN 10/10/17
Checked by: RLA 2/21/18

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Sample Location	Date	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2-Butanone	4-Methyl-2-pentanone	Acetone	Benzene	Chlorobenzene	Chloroform	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Naphthalene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride	Xylenes, total	1,4-Dioxane
Delineation Criteria (mg/L)		0.2	0.005	4	0.007	0.6	0.005	0.6	0.075	2	2	4	0.005	0.1	0.08	0.07	0.7	DL	0.02	0.005	1	0.1	0.005	0.002	10	DL
SECHEM Property																										
SMW-1	3/21/2017	< 0.001	< 0.001	**0.001**	**0.0012**	< 0.001	**0.0014**	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	**0.0049**	< 0.001	<0.001	<0.005	**0.0048**	< 0.001	< 0.001	**0.0091**	< 0.001	< 0.001	**0.0014**
	9/14/2017	< 0.001	< 0.001	< 0.001	**0.001**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	**0.0021**	< 0.001	<0.001	<0.005	**0.002**	< 0.001	< 0.001	**0.003**	**0.0018**	< 0.001	**0.0013 J**
SMW-2	3/21/2017	< 0.001	**0.0023**	**0.0068**	< 0.001	**0.043**	**0.039**	**0.015**	**0.056**	< 0.01	< 0.01	< 0.01	**0.0026**	**0.23**	< 0.001	**0.036**	**0.052**	**0.0026**	**0.016**	**0.0048**	**0.0042**	**0.0093**	**0.0032**	**0.025**	**0.069**	**0.58**
	9/18/2017	< 0.002	**0.0035**	**0.0066**	< 0.002	**0.043**	**0.04**	**0.017**	**0.046**	< 0.02	< 0.02	< 0.02	**0.0026**	**0.22**	< 0.002	**0.075**	**0.026**	**0.0027**	<0.01	**0.024**	< 0.002	**0.0065**	**0.011**	**0.034**	**0.036**	**0.22**
SMW-3	3/21/2017	< 0.01	**0.016**	**0.051**	**0.022**	**1.1**	**0.3**	**0.22**	**0.14**	**0.91**	**4.9**	**4.3**	< 0.01	< 0.01	< 0.01	**0.17**	< 0.01	<0.01	**0.069**	**0.056**	**0.049**	< 0.01	**0.036**	**0.11**	**0.53**	**1.2**
	9/14/2017	< 0.01	**0.021**	**0.096**	**0.076**	**1.2**	**0.39**	**0.38**	**0.25**	< 0.1	**3.2**	**0.43**	**0.013**	< 0.01	< 0.01	**0.7**	**0.046**	<0.01	<0.05	**0.059**	**0.037**	< 0.01	**0.045**	**0.25**	**1.4**	**0.19**
SMW-4	3/21/2017	< 0.002	< 0.002	< 0.002	**0.0072**	**0.003**	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.002	< 0.002	**0.0082**	**0.011**	< 0.002	<0.002	<0.01	**0.29**	< 0.002	< 0.002	**0.052**	< 0.002	< 0.002	**0.17**
	9/13/2017	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	< 0.5	< 0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.25	**0.37**	< 0.05	< 0.05	**0.06**	< 0.05	< 0.05	**0.004**
SRW-1	3/21/2017	< 0.002	< 0.002	**0.035**	**0.094**	<0.002	**0.14**	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.002	< 0.002	**0.0033**	**0.21**	< 0.002	<0.002	<0.010	**0.61**	< 0.002	< 0.002	**0.43**	< 0.002	< 0.002	**0.032 J**
	9/14/2017	< 0.005	< 0.005	**0.036**	**0.088**	**0.0098**	**0.14**	< 0.005	< 0.005	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	< 0.005	**0.24**	< 0.005	<0.005	<0.025	**0.59**	< 0.005	< 0.005	**0.4**	< 0.005	< 0.005	**0.028**
Weeks Landscaping Property																										
WMW-1	3/21/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0012**	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0017**
	9/14/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0016**	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	**0.0014**	< 0.001	<0.001	<0.005	< 0.001	< 0.001	< 0.001	**0.0015**	< 0.001	< 0.001	**0.0013 J**
Hand Property																										
HMW-1	3/20/2017	< 0.001	< 0.001	< 0.001	**0.001**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.005	**0.006**	< 0.001	< 0.001	**0.0012**	< 0.001	< 0.001	< 0.00025
	9/13/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.005	**0.0064**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0011 J**
YFI Property																										
YMW-1	3/21/2017	**0.0022**	< 0.002	**0.002**	**0.008**	**0.049**	< 0.002	**0.014**	**0.011**	< 0.02	< 0.02	< 0.02	< 0.002	< 0.002	< 0.002	**0.082**	< 0.002	<0.002	<0.01	**0.079**	< 0.002	< 0.002	**0.062**	< 0.002	< 0.002	**0.095**
	9/14/2017	**0.0023**	**0.0025**	< 0.002	**0.0046**	**0.022**	< 0.002	**0.0065**	**0.0052**	< 0.02	< 0.02	< 0.02	< 0.002	< 0.002	< 0.002	**0.054**	< 0.002	<0.002	<0.01	**0.063**	< 0.002	< 0.002	**0.036**	< 0.002	< 0.002	**0.065**
YMW-2	3/22/2017	**0.0096**	< 0.001	**0.0033**	**0.0021**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	**0.036**	< 0.001	<0.001	<0.005	**0.049**	< 0.001	< 0.001	**0.054**	< 0.001	< 0.001	< 0.00025
	9/18/2017	**0.0095**	< 0.001	**0.0038**	**0.0019**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	**0.083**	< 0.001	<0.001	<0.005	**0.026**	< 0.001	< 0.001	**0.026**	< 0.001	< 0.001	< 0.0013
YMW-4	3/21/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.005	**0.0014**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.00062 J**
	9/14/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.005	**0.0011**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.00068 J**
YMW-5	3/23/2017	**0.023**	< 0.005	**0.11**	**0.35**	**1.1**	**0.15**	**0.22**	**0.25**	< 0.05	< 0.05	< 0.05	**0.026**	**0.055**	< 0.005	**2.5**	< 0.005	**0.0087**	**0.033**	**0.86**	**0.0057**	**0.006**	**0.97**	**0.34**	**0.013**	**0.49**
	9/14/2017	**0.029**	< 0.02	**0.14**	**0.59**	**1.7**	**0.21**	**0.35**	**0.39**	< 0.2	< 0.2	< 0.2	**0.033**	**0.076**	< 0.02	**4.1**	< 0.02	<0.02	<0.10	**1.6**	< 0.02	< 0.02	**1.7**	**0.22**	**0.033**	**0.6**
YMW-6	3/22/2017	< 0.001	< 0.001	**0.006**	**0.014**	< 0.001	**0.018**	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	**0.002**	**0.058**	< 0.001	<0.001	<0.005	**0.054**	< 0.001	< 0.001	**0.2**	< 0.001	< 0.001	< 0.013
	9/15/2017	< 0.002	< 0.002	**0.0049**	**0.011**	**0.003**	**0.015**	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.002	< 0.002	< 0.002	**0.053**	< 0.002	<0.002	<0.01	**0.048**	< 0.002	< 0.002	**0.18**	< 0.002	< 0.002	**0.005**
YMW-7	3/22/2017	< 0.005	< 0.005	**0.0089**	**0.067**	**0.0051**	**0.07**	< 0.005	< 0.005	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	< 0.005	**0.11**	< 0.005	<0.005	<0.025	**0.14**	< 0.005	< 0.005	**0.46**	< 0.005	< 0.005	**0.076 J**
	9/15/2017	<0.005	< 0.005	**0.0098**	**0.075**	< 0.005	**0.082**	< 0.005	< 0.005	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	< 0.005	**0.12**	< 0.005	<0.005	<0.025	**0.17**	< 0.005	< 0.005	**0.51**	< 0.005	< 0.005	**0.022**
YMW-8	3/23/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00025
	9/18/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00025

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Sample Location	Date	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2-Butanone	4-Methyl-2-pentanone	Acetone	Benzene	Chlorobenzene	Chloroform	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Naphthalene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride	Xylenes, total	1,4-Dioxane
Delineation Criteria (mg/L)		0.2	0.005	4	0.007	0.6	0.005	0.6	0.075	2	2	4	0.005	0.1	0.08	0.07	0.7	DL	0.02	0.005	1	0.1	0.005	0.002	10	DL
YMW-9	3/22/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00025
	9/15/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.00059 J**
YMW-10	3/22/2017	**0.014**	< 0.01	**0.049**	**0.13**	**0.32**	**0.052**	**0.071**	**0.07**	< 0.1	< 0.1	< 0.1	< 0.01	**0.016**	< 0.01	**0.86**	< 0.01	<0.01	<0.05	**0.49**	< 0.01	< 0.01	**0.53**	**0.18**	< 0.01	**0.2**
	9/15/2017	**0.013**	< 0.01	**0.047**	**0.11**	**0.29**	**0.044**	**0.066**	**0.072**	< 0.1	< 0.1	< 0.1	< 0.01	**0.017**	< 0.01	**0.87**	< 0.01	<0.01	<0.05	**0.58**	< 0.01	< 0.01	**0.57**	**0.15**	< 0.01	**0.22**
YMW-11	3/22/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	**0.0016**	< 0.001	< 0.001	<0.001	<0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00025
	9/15/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	**0.0013**	< 0.001	< 0.001	<0.001	<0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0014**
YMW-13	3/22/2017	**0.011**	< 0.01	< 0.01	**0.31**	< 0.01	**0.15**	< 0.01	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01	< 0.01	< 0.01	**0.51**	< 0.01	<0.01	<0.05	**0.17**	< 0.01	< 0.01	**0.47**	< 0.01	< 0.01	**0.15**
	9/14/2017	**0.011**	< 0.01	< 0.01	**0.33**	< 0.01	**0.18**	< 0.01	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01	< 0.01	< 0.01	**0.49**	< 0.01	<0.01	<0.05	**0.24**	< 0.01	< 0.01	**0.56**	< 0.01	< 0.01	**0.041**
YMW-14	3/22/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	**0.033**	< 0.001	<0.001	<0.005	**0.1**	< 0.001	< 0.001	**0.014**	< 0.001	< 0.001	< 0.0013
	9/18/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	**0.02**	< 0.001	<0.001	<0.005	**0.087**	< 0.001	< 0.001	**0.0084**	< 0.001	< 0.001	< 0.00025
YMW-15	3/22/2017	< 0.02	< 0.02	**0.059**	**0.29**	**0.13**	**0.12**	**0.036**	**0.033**	< 0.2	< 0.2	< 0.2	< 0.02	< 0.02	< 0.02	**1.6**	< 0.02	<0.02	<0.10	**0.95**	< 0.02	< 0.02	**0.83**	**0.024**	< 0.02	**0.42**
	9/18/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YMW-16	3/22/2017	< 0.005	< 0.005	**0.016**	**0.091**	< 0.005	**0.018**	< 0.005	< 0.005	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	< 0.005	**0.37**	< 0.005	<0.005	<0.025	**0.38**	< 0.005	< 0.005	**0.29**	< 0.005	< 0.005	**0.031 J**
	9/15/2017	**0.0065**	< 0.005	**0.024**	**0.14**	< 0.005	**0.032**	< 0.005	< 0.005	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	< 0.005	**0.7**	< 0.005	<0.005	<0.025	**0.67**	< 0.005	< 0.005	**0.48**	< 0.005	< 0.005	**0.074**
YMW-17	3/23/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.00041 J**
	9/18/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00025
YMW-18	3/23/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00025
	9/18/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00025
YMW-19	3/21/2017	< 0.001	< 0.001	**0.012**	**0.024**	< 0.001	**0.037**	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	**0.082**	< 0.001	<0.001	<0.005	**0.15**	< 0.001	**0.0013**	**0.22**	< 0.001	< 0.001	< 0.013
	9/13/2017	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	< 0.5	< 0.5	< 0.05	< 0.05	< 0.05	**0.08**	< 0.05	<0.05	<0.25	**0.18**	< 0.05	< 0.05	**0.18**	< 0.05	< 0.05	**0.0088**

Notes

Delineation criteria equal Type 1 Risk Reduction Standards (RRS)

DL - Detection Limit

Bold - Concentration exceeds detection limit

Bold and Shaded -Concentration exceeds delineation criteria

-- Not sampled due to suspected sediment in the well.

Prepared by: CN 10/30/2017

Checked by: RLA 2/21/2018

TABLE 5
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS

Sample Location	Date	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride	Xylenes, total	1,4-Dioxane
GA IWQS (mg/L)		--	0.016	--	7.1	1.3	0.037	0.96	--	2.1	--	0.0033	5.98	10	0.03	0.0024	--	--
SW-1	3/23/2017	**0.06**	< 0.002	**0.0062**	**0.019**	< 0.002	< 0.002	< 0.002	**0.58**	< 0.002	<0.002	**0.68**	**0.059**	**0.005**	**0.49**	**0.014**	**0.0066**	**0.17**
	9/18/2017	**0.088**	< 0.001	**0.019**	**0.026**	< 0.001	< 0.001	< 0.001	**1.1**	**1.3**	**0.002**	**0.55**	**0.074**	**0.015**	**0.62**	**0.048**	**0.01**	<0.013
SW-2	3/23/2017	**0.0026**	< 0.001	**0.0047**	**0.014**	**0.0021**	**0.01**	**0.0015**	**0.095**	< 0.001	<0.001	**0.038**	< 0.001	< 0.001	**0.044**	**0.0042**	< 0.001	**0.037**
	9/18/2017	**0.0013**	< 0.001	**0.0033**	**0.0076**	**0.0016**	**0.0079**	< 0.001	**0.058**	< 0.001	<0.001	**0.013**	< 0.001	< 0.001	**0.024**	**0.0033**	< 0.001	**0.034**
SW-3	3/23/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0032**	< 0.001	<0.001	**0.0016**	< 0.001	< 0.001	**0.0014**	< 0.001	< 0.001	**0.014**
	9/18/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0016**	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.016**
SW-4	3/23/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0091**
	9/18/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.011**

Prepared by: RJA 4/13/2017
Checked by: RLA 2/22/2018

Notes:
mg/L - micrograms per liter
GA IWQS - Georgia Instream Water Quality Standard
-- No standard
Bold - Concentration exceeds laboratory reporting limit
Bold and Shaded-Concentration exceeds WQS

TABLE 6

SUMMARY OF MONTHLY INVOICES

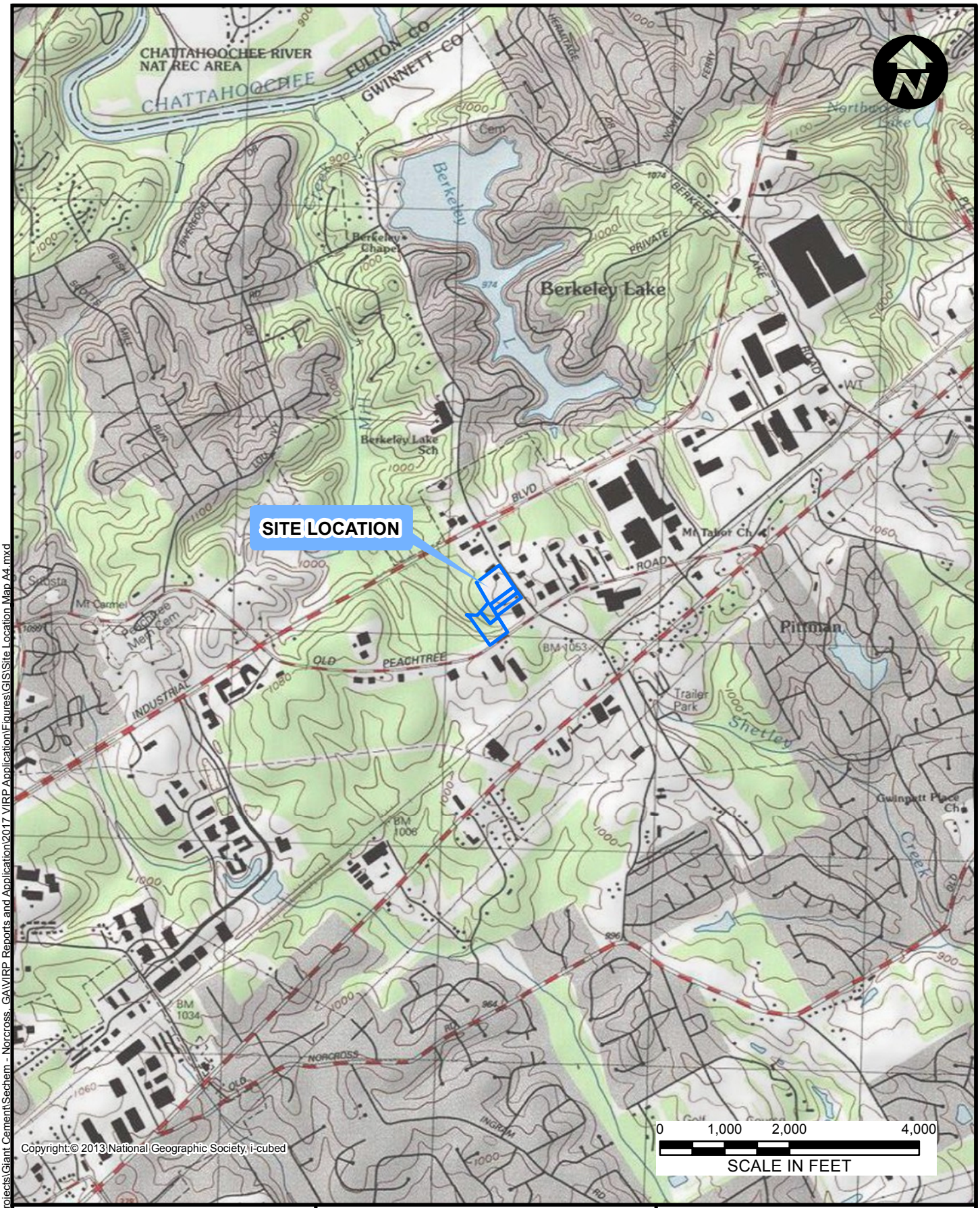
Month	Hours Billed by Carol Northern, P.G.	Description of Activities
October 2017	2.5	– Reviewed VIRP acceptance and comment letters – Participated in a conference call with SECHEM to discuss project – Preparation of Affidavit
November 2017	0.5	– Participated in conference call with client to discuss scoping of 2018 activities.
February 2018	1	– Review of groundwater delineation – Conference call with SECHEM
March 2018	3	– March 2018 field event debrief – Review 1st VIRP Report

TABLE 7

PROJECTED MILESTONE SCHEDULE

Date	Activity
October 5, 2017	VRP Application approved
March 19-23, 2018	Semi-annual groundwater and surface water sampling event
April 5, 2018	First VIRP Progress Report
September 2018	Semi-annual groundwater and surface water sampling event
October 5, 2018	Horizontal delineation on accessible properties complete
	Second VIRP Progress Report
March 2019	Semi-annual groundwater and surface water sampling event
April 5, 2019	Third VIRP Progress Report
September 2019	Semi-annual groundwater and surface water sampling event
October 5, 2019	Horizontal delineation of initially inaccessible areas complete
October 5, 2019	Fourth VIRP Progress Report
March 2020	Semi-annual groundwater and surface water sampling event
April 5, 2020	Vertical delineation complete, remediation plan finalized, preliminary cost estimate prepared.
	Fifth VIRP Progress Report
September 2020	Semi-annual groundwater and surface water sampling event
October 5, 2020	Sixth VIRP Progress Report
March 2021	Semi-annual groundwater and surface water sampling event
April 5, 2021	Seventh VIRP Progress Report
September 2021	Semi-annual groundwater and surface water sampling event
October 5, 2021	Eighth VIRP Progress Report
March 2022	Semi-annual groundwater and surface water sampling event
April 5, 2022	Ninth VIRP Progress Report
September 2022	Semi-annual groundwater and surface water sampling event
October 5, 2022	Compliance Status Report

FIGURES



Document Path: S:\Premier\Projects\Giant Cement\Sechem - Norcross, GA\VIRP Reports and Application\2017 VIRP Application\Figures\GIS\Site Location Map A4.mxd

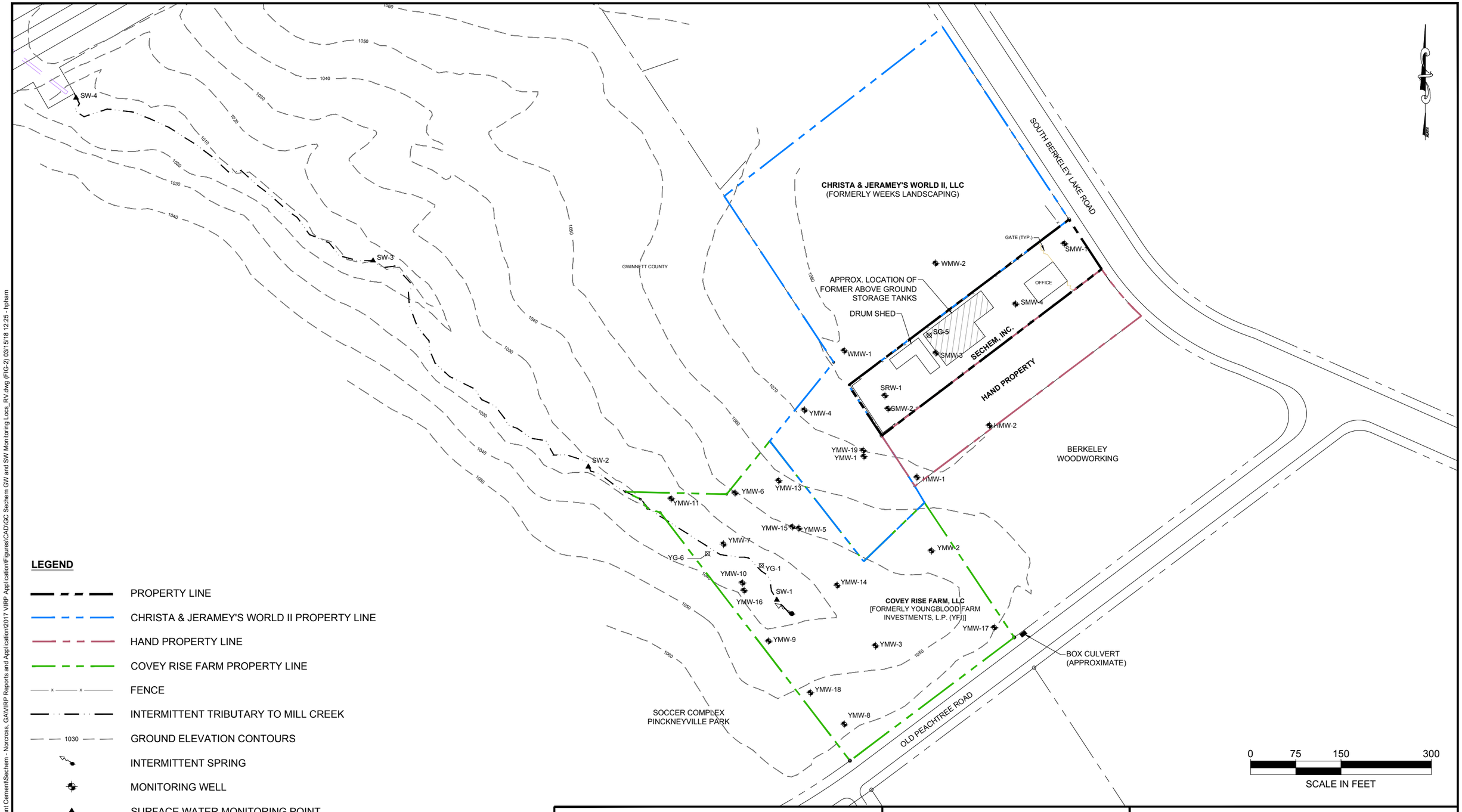
SECHEM, INC
4850 SOUTH BERKELEY LAKE ROAD
NORCROSS, GEORGIA
HI SITE NUMBER 10515

PROJECT NO. 02.21080044.00

EARTHCON®
EarthCon Consultants, Inc.
1880 West Oak Pkwy, Building 100, Suite 106
Marietta, GA 30062
(770)973-2100

PROPERTY LOCATION

DRAWN	CHECKED	DATE	FIGURE
HVP	AGL	APR 2018	1



LEGEND

- PROPERTY LINE
- CHRISTA & JERAMEY'S WORLD II PROPERTY LINE
- HAND PROPERTY LINE
- COVEY RISE FARM PROPERTY LINE
- FENCE
- INTERMITTENT TRIBUTARY TO MILL CREEK
- 1030 GROUND ELEVATION CONTOURS
- INTERMITTENT SPRING
- MONITORING WELL
- SURFACE WATER MONITORING POINT
- PIEZOMETER

BASE DRAWING BY DRAPER ADEN ASSOCIATES,
PLAN NO. R00463-08, DATED 07-21-05.

SECHEM, INC.

4580 SOUTH BERKELEY LAKE ROAD
NORCROSS, GEORGIA
HSI SITE NUMBER 10515

PROJECT NO. 02.20180044.00

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PROPERTY LAYOUT

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	AGL	APR 2018	2

FILENAME: S:\Premier\Projects\Giant Cement\Sechem - Norcross, GA\VIRP Reports and Application\2017 VIRP Application\Figures\CAD\GC Sechem GW and SW Monitoring Locs_RV.dwg (FIG-2) 03/15/18 12:25 - hpham

CHRISTA & JERAMEY'S WORLD II, LLC
(FORMERLY WEEKS LANDSCAPING)

GWINNETT COUNTY

APPROX. LOCATION OF FORMER ABOVE GROUND STORAGE TANKS

DRUM SHED

GATE (TYP.)

OFFICE

SECHEM, INC.

HAND PROPERTY

BERKELEY WOODWORKING

COVEY RISE FARM, LLC
[FORMERLY YOUNGBLOOD FARM INVESTMENTS, L.P. (YFI)]

SOCCER COMPLEX
PINCKNEYVILLE PARK

BOX CULVERT
(APPROXIMATE)

OLD PEACHTREE ROAD

WMW-1 WMW-2

SMW-1 SMW-2 SMW-3 SMW-4

SG-5

SRW-1

YMW-1 YMW-2 YMW-3 YMW-4 YMW-5 YMW-6 YMW-7 YMW-8 YMW-9 YMW-10 YMW-11 YMW-13 YMW-14 YMW-15 YMW-16 YMW-17 YMW-18 YMW-19

HMW-1 HMW-2

YG-1 YG-6

SW-1

1080 1070 1060 1050 1030

A A' B B'

LEGEND

- PROPERTY LINE
- CHRISTA & JERAMEY'S WORLD II PROPERTY LINE
- HAND PROPERTY LINE
- COVEY RISE FARM PROPERTY LINE
- FENCE
- INTERMITTENT TRIBUTARY TO MILL CREEK
- 1030 GROUND ELEVATION CONTOURS
- INTERMITTENT SPRING
- MONITORING WELL
- SURFACE WATER MONITORING POINT
- PIEZOMETER

0 50 100 200
SCALE IN FEET

BASE DRAWING BY DRAPER ADEN ASSOCIATES,
PLAN NO. R00463-08, DATED 07-21-05.

SECHEM, INC.
4580 SOUTH BERKELEY LAKE ROAD
NORCROSS, GEORGIA
HSI SITE NUMBER 10515
PROJECT NO. 02.20180044.00

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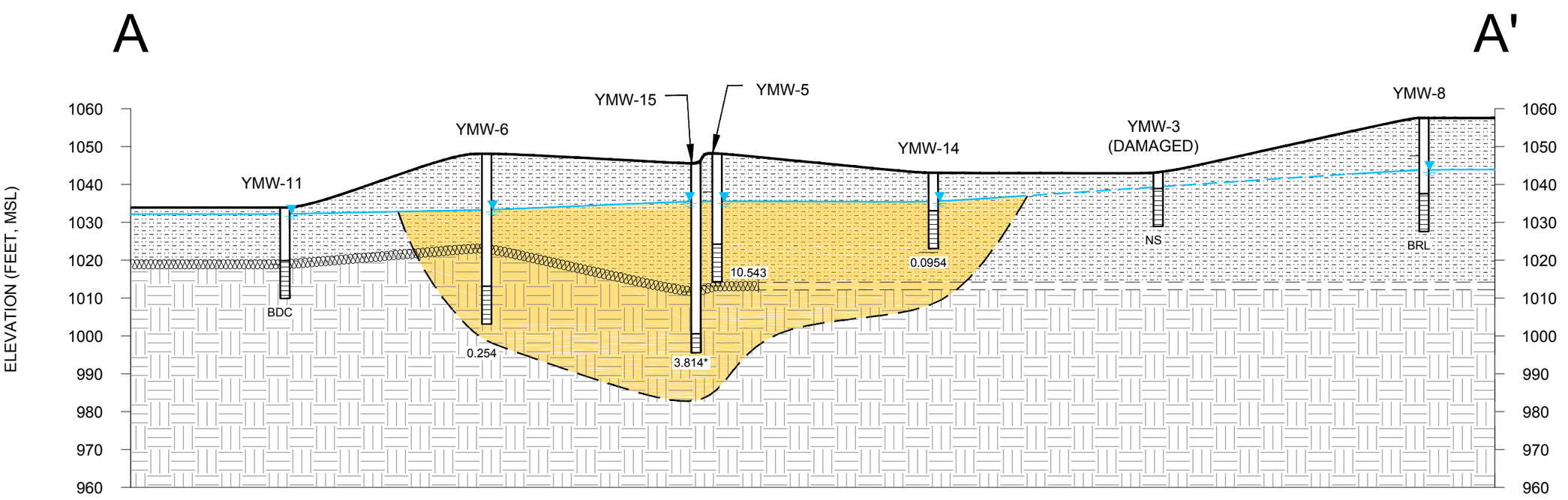
1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

CROSS SECTION LOCATION MAP

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	AGL	APR 2018	3

FILENAME: S:\Premier\Projects\Giant Cement\Sechem - Norcross, GA\VIRP Reports and Application\2018 First VIRP Report\Figures\CAD\GC Sechem VIRP and APP Figures_2017.dwg (FIG-3 XSEC LOC) 03/28/18 15:27 - hpham



LEGEND

- MICACEOUS SILT TO CLAY SAPROLITE
- PARTIALLY WEATHERED ROCK (DASHED WHERE INFERRED)
- BEDROCK
- MONITORING WELL AND SCREEN

NS	NOT SAMPLED
BRL	BELOW REPORTING LIMIT
BDC	BELOW DELINEATION CRITERIA
mg/L	MILLIGRAMS PER LITER
RRS	RISK REDUCTION STANDARD
14.977	TOTAL VOC CONCENTRATION IN GROUNDWATER > RRS (mg/L), SEPTEMBER-2017
	APPROXIMATE EXTENT OF TOTAL VOC CONTAMINATION IN GROUNDWATER > RRS, SEPTEMBER-2017
	GROUNDWATER ELEVATION (MEASURED SEPTEMBER 13, 2017)
NS	NOT SAMPLED
*	CONCENTRATION FROM MARCH 2017 SAMPLING EVENT. WELL WAS NOT SAMPLED IN SEPTEMBER 2017.

30

SCALE IN FEET

60

SECHEM, INC.
4580 SOUTH BERKELEY LAKE ROAD
NORCROSS, GEORGIA
HSI SITE NUMBER 10515
PROJECT NO. 02.20180244.00

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EarthCon Consultants, Inc.
1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

CROSS SECTION A-A'

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	AGL	APR 2018	4

FILENAME: S:\Premier\Projects\Giant Cement\Sechem - Norcross, GA\VIRP Reports and Application\2018 First VIRP Report\Figures\CAD\GC Sechem VIRP and APP Figures_2017.dwg (FIG-4 A-A') 03/28/18 15:46 - hpham

B

B'

ELEVATION (FEET, MSL)

1100
1090
1080
1070
1060
1050
1040
1030
1020
1010
1000
990
980
970
960

YMW-16
YMW-10
INTERMITTENT TRIBUTARY TO MILL CREEK
YMW-15
YMW-5
YMW-1
YMW-19
SMW-2
SMW-3
SMW-4
SMW-1

2.324
10.543
0.099
0.4067
6.204
0.43
BDC
2.022
3.814*
0.44

?

LEGEND

MICACEOUS SILT TO CLAY SAPROLITE

PARTIALLY WEATHERED ROCK (DASHED WHERE INFERRED)

BEDROCK

MONITORING WELL AND SCREEN

mg/L — MILLIGRAMS PER LITER

RRS — RISK REDUCTION STANDARD

BRL — BELOW LABORATORY REPORTING LIMIT

BDC — BELOW DELINEATION CRITERIA

14.977 — TOTAL VOC CONCENTRATION IN GROUNDWATER > RRS (mg/L), SEPTEMBER-2017

APPROXIMATE EXTENT OF TOTAL VOC CONTAMINATION IN GROUNDWATER > RRS, SEPTEMBER-2017

GROUNDWATER ELEVATION (MEASURED SEPTEMBER 2017)

NS — NOT SAMPLED

* — CONCENTRATION FROM MARCH 2017 SAMPLING EVENT. WELL WAS NOT SAMPLED IN SEPTEMBER 2017.

30

SCALE IN FEET

60

SECHEM, INC.
4580 SOUTH BERKELEY LAKE ROAD
NORCROSS, GEORGIA
HSI SITE NUMBER 10515

PROJECT NO. 02.20180044.00

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CROSS SECTION B-B'

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	AGL	APR 2018	5

FILENAME: S:\Premier\Projects\Giant Cement\Sechem - Norcross, GA\VIRP Reports and Application\2018 First VIRP Report\Figures\CAD\GC Sechem VIRP

CHRISTA & JERAMEY'S WORLD II, LLC
(FORMERLY WEEKS LANDSCAPING)

GWINNETT COUNTY

GATE (TYP.)

SMW-1
1059.46

WMW-2
1057.12

APPROX. LOCATION OF
FORMER ABOVE GROUND
STORAGE TANKS

OFFICE

SMW-4
1059.38

DRUM SHED

SG-5
1054.84

SMW-3
1053.77

SECHEM, INC.

WMW-1
1051.58

HAND PROPERTY

SRW-1
1046.17

SMW-2
1046.70

YMW-4
1039.09

HMW-2
1054.21

YMW-19
1045.13

YMW-1
1043.42

BERKELEY
WOODWORKING

HMW-1
1051.36

YMW-13
1034.29

YMW-6
1031.95

YMW-11
1030.73

YMW-15
1034.82

YMW-5
1034.85

YMW-7
1031.52

YG-6
1028.96

YG-1
1033.17

YMW-2
1040.15

YMW-10
1033.19

YMW-14
1035.22

YMW-16
1033.19

SW-1

COVEY RISE FARM, LLC
[FORMERLY YOUNGBLOOD FARM
INVESTMENTS, L.P. (YFI)]

YMW-17
1045.20

YMW-9
1037.03

YMW-3
NM

BOX CULVERT
(APPROXIMATE)

YMW-18
1037.58

SOCCER COMPLEX
PINCKNEYVILLE PARK

YMW-8
1039.38

OLD PEACHTREE ROAD

1080 1070 1060 1050 1040 1030 1035 1055 1045

LEGEND

- PROPERTY LINE
- CHRISTA & JERAMEY'S WORLD II PROPERTY LINE
- HAND PROPERTY LINE
- COVEY RISE FARM PROPERTY LINE
- FENCE
- INTERMITTENT TRIBUTARY TO MILL CREEK
- 1030 GROUND ELEVATION CONTOURS
- INTERMITTENT SPRING
- MONITORING WELL
- SURFACE WATER MONITORING POINT
- PIEZOMETER
- 1054.21 WATER LEVEL ELEVATION (FT. MSL) NM = NOT MEASURED
- 1040 INTERPRETED POTENTIOMETRIC SURFACE CONTOUR (FT. MSL) (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

0 50 100 200
SCALE IN FEET

NOTE: WATER LEVEL WAS NOT COLLECTED FROM YMW-3 BECAUSE WELL IS DAMAGED.

BASE DRAWING BY DRAPER ADEN ASSOCIATES,
PLAN NO. R00463-08, DATED 07-21-05.

SECHEM, INC.
4580 SOUTH BERKELEY LAKE ROAD
NORCROSS, GEORGIA
HSI SITE NUMBER 10515

PROJECT NO. 02.20180044.00

EARTHCON®
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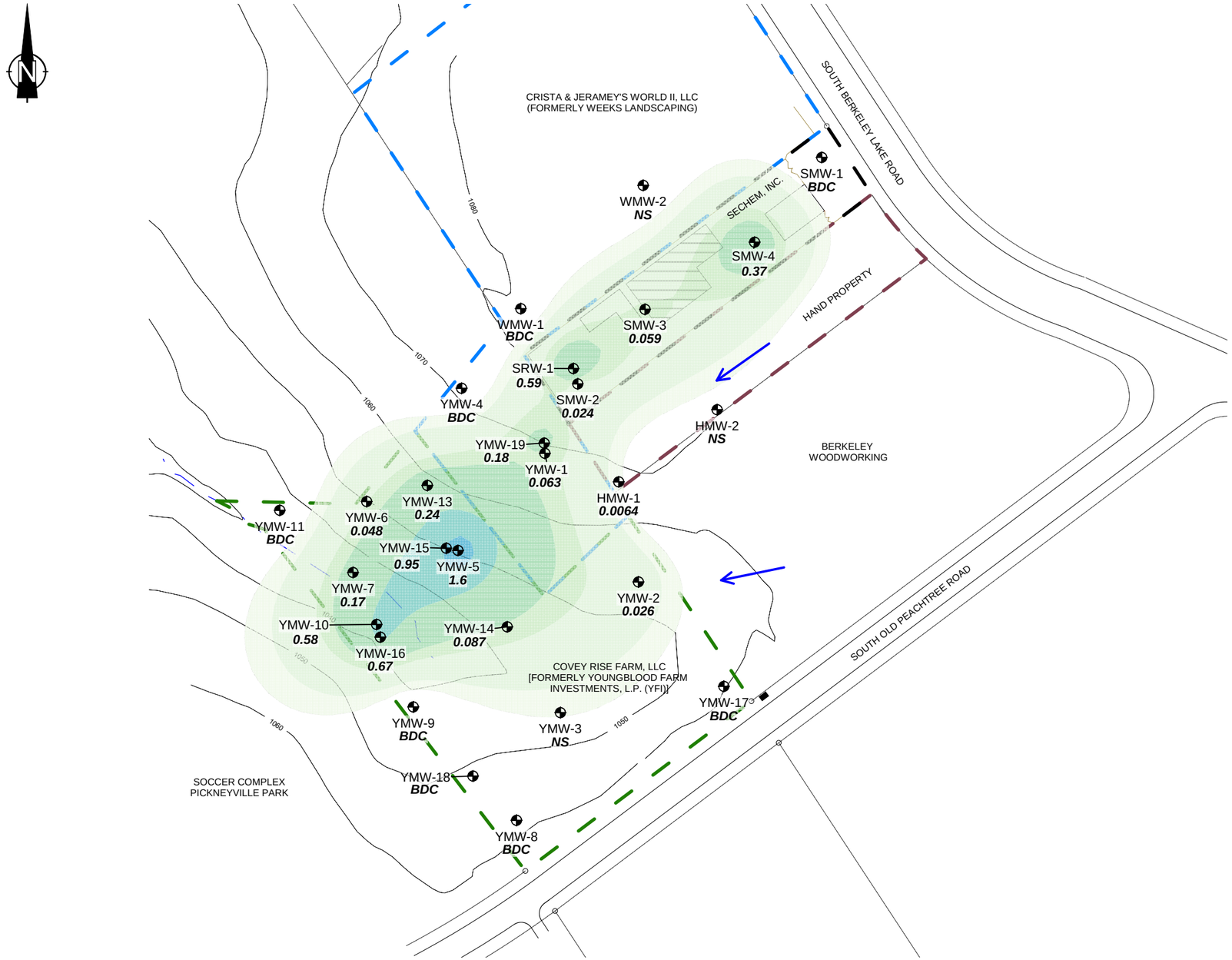
1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

POTENTIOMETRIC SURFACE MAP
SEPTEMBER 13, 2017

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	AGL	APR 2018	6

FILENAME: S:\Premier\Projects\Giant Cement\Sechem - Norcross, GA\WRP Reports and Application\2018 First VRP Report\Figures\CAD\GC Sechem GW and SW Monitoring Locs_RV.dwg (POT MAP_SEPT 13 2017) 03/28/18 15:49 - hpham



LEGEND

- YMW-15 / 0.95 — Monitoring Well and Concentration (mg/L)
- NS — Not Sampled
- BDC — Below Delineation Criteria
- General Groundwater Flow Direction
- Property Boundary
- Christa & Jeramey's World II Property Line
- Hand Property Line
- Covey Rise Farm Property Line
- Intermittent Tributary to Mill Creek

Delineation Criteria = Type 1 Risk Reduction Standard (RRS) = 0.005 mg/L

Concentration (mg/L)

0.005 | 0.01 | 0.05 | 0.1 | 0.5 | 1 | 2 | 3 | 4 | 5

Map Scale (ft)

0 — 150 — 300

SECHEM, INC.
4580 South Berkeley Lake Road
Norcross, Georgia
HSI Site Number 10515

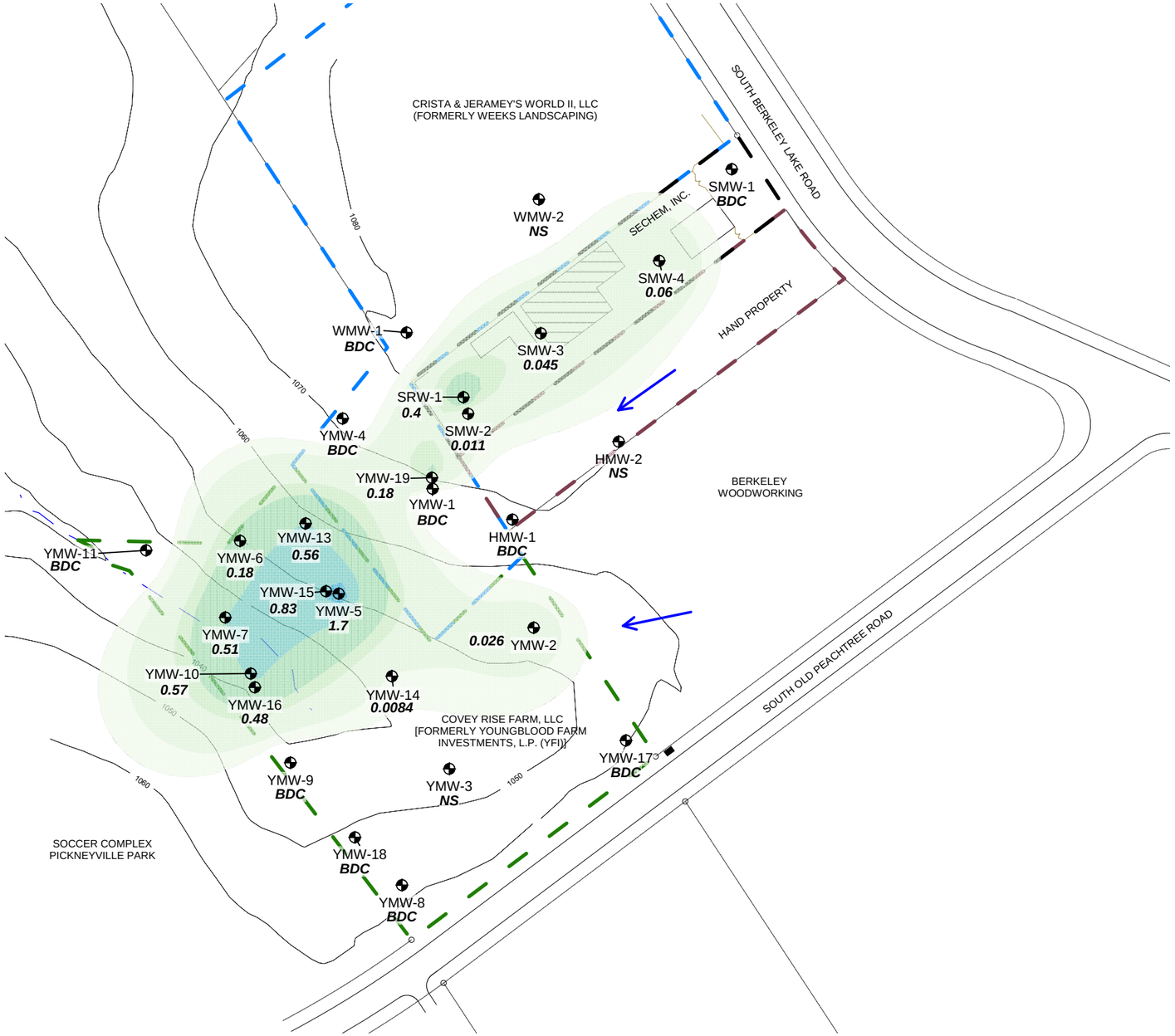
Project Number: 02.20180044.00

EARTHCON®

1880 West Oak Parkway, Bldg. 100 Suite 106
Marietta, Georgia 30062

Isoconcentration Map
Tetrachloroethene (PCE)
September-2017

Prepared by: HVP Checked by: AGL Figure: 7



LEGEND

- YMW-15 / 0.83 — Monitoring Well and Concentration (mg/L)
- NS — Not Sampled
- BDC — Below Delineation Criteria
- General Groundwater Flow Direction
- Property Boundary
- Christa & Jeramey's World II Property Line
- Hand Property Line
- Covey Rise Farm Property Line
- Intermittent Tributary to Mill Creek

Delineation Criteria = Type 1 Risk Reduction Standard (RRS) = 0.005 mg/L

Concentration (mg/L)

0.005 0.01 0.05 0.1 0.5 1 2 3 4 5

Map Scale (ft)

0 150 300

SECHEM, INC.
4580 South Berkeley Lake Road
Norcross, Georgia
HSI Site Number 10515

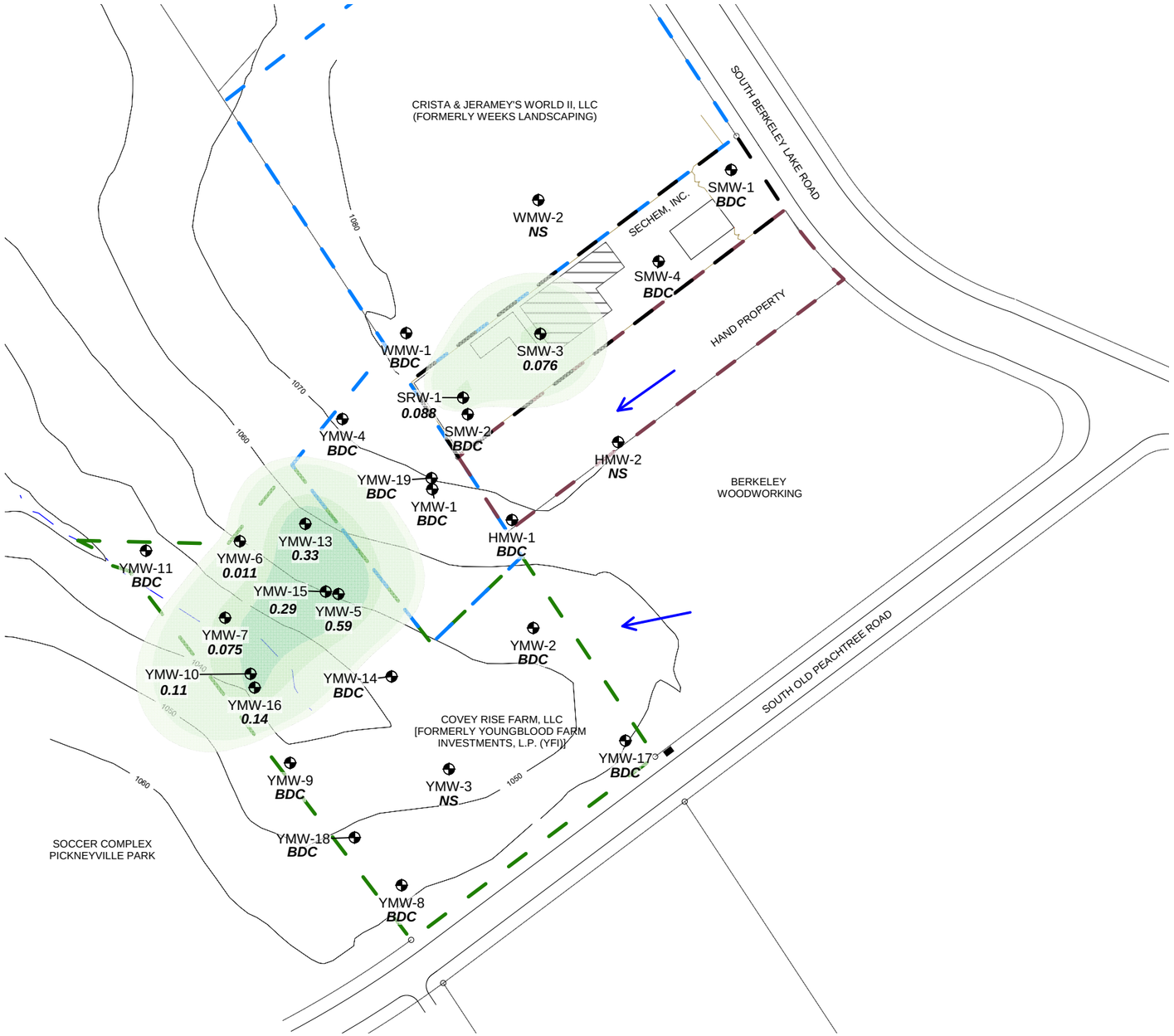
Project Number: 02.20180044.00

EARTHCON®

1880 West Oak Parkway, Bldg. 100 Suite 106
Marietta, Georgia 30062

Isoconcentration Map
Trichloroethene (TCE)
September-2017

Prepared by: HVP Checked by: AGL Figure: 8



LEGEND

- YMW-15 / 0.29 — Monitoring Well and Concentration (mg/L)
- NS — Not Sampled
- BDC — Below Delineation Criteria
- General Groundwater Flow Direction
- Property Boundary
- Christa & Jeramey's World II Property Line
- Hand Property Line
- Covey Rise Farm Property Line
- Intermittent Tributary to Mill Creek

Delineation Criteria = Type 1 Risk Reduction Standard (RRS) = 0.007 mg/L

Concentration (mg/L)

0.007 | 0.01 | 0.05 | 0.1 | 0.5 | 1 | 2 | 3 | 4 | 5

Map Scale (ft)

0 — 150 — 300

SECHEM, INC.
4580 South Berkeley Lake Road
Norcross, Georgia
HSI Site Number 10515

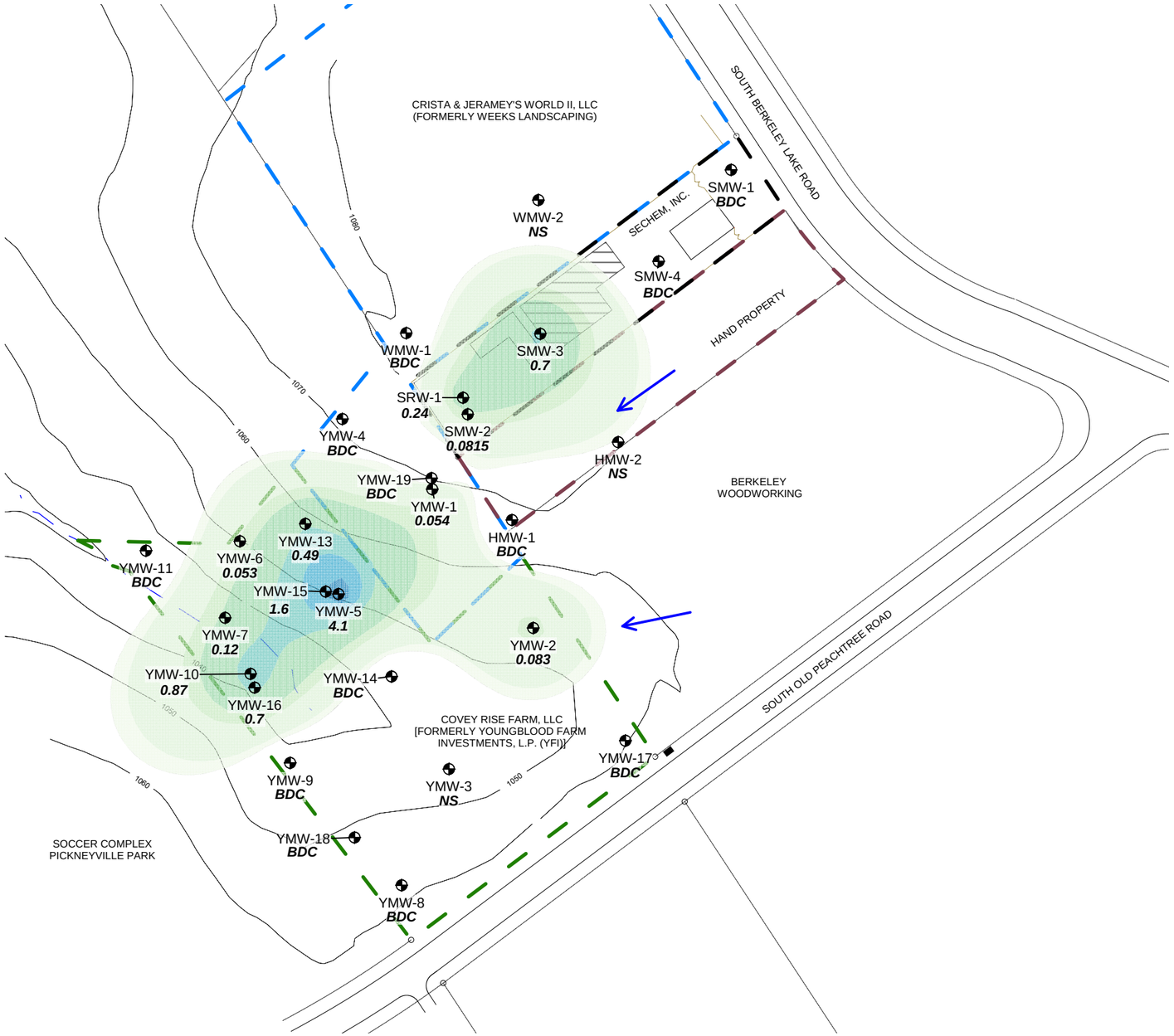
Project Number: 02.20180044.00

EARTHCON®

1880 West Oak Parkway, Bldg. 100 Suite 106
Marietta, Georgia 30062

Isoconcentration Map
1,1-Dichloroethene (1,1-DCE)
September-2017

Prepared by: HVP Checked by: AGL Figure: 9



LEGEND

- YMW-15 / 1.6 — Monitoring Well and Concentration (mg/L)
- NS — Not Sampled
- BDC — Below Delineation Criteria
- General Groundwater Flow Direction
- Property Boundary
- Christa & Jeramey's World II Property Line
- Hand Property Line
- Covey Rise Farm Property Line
- Intermittent Tributary to Mill Creek

Delineation Criteria = Type 1 Risk Reduction Standard (RRS) = 0.007 mg/L

Concentration (mg/L)

0.007 0.01 0.05 0.1 0.5 1 2 3 4 5

Map Scale (ft)

0 150 300

SECHEM, INC.
4580 South Berkeley Lake Road
Norcross, Georgia
HSI Site Number 10515

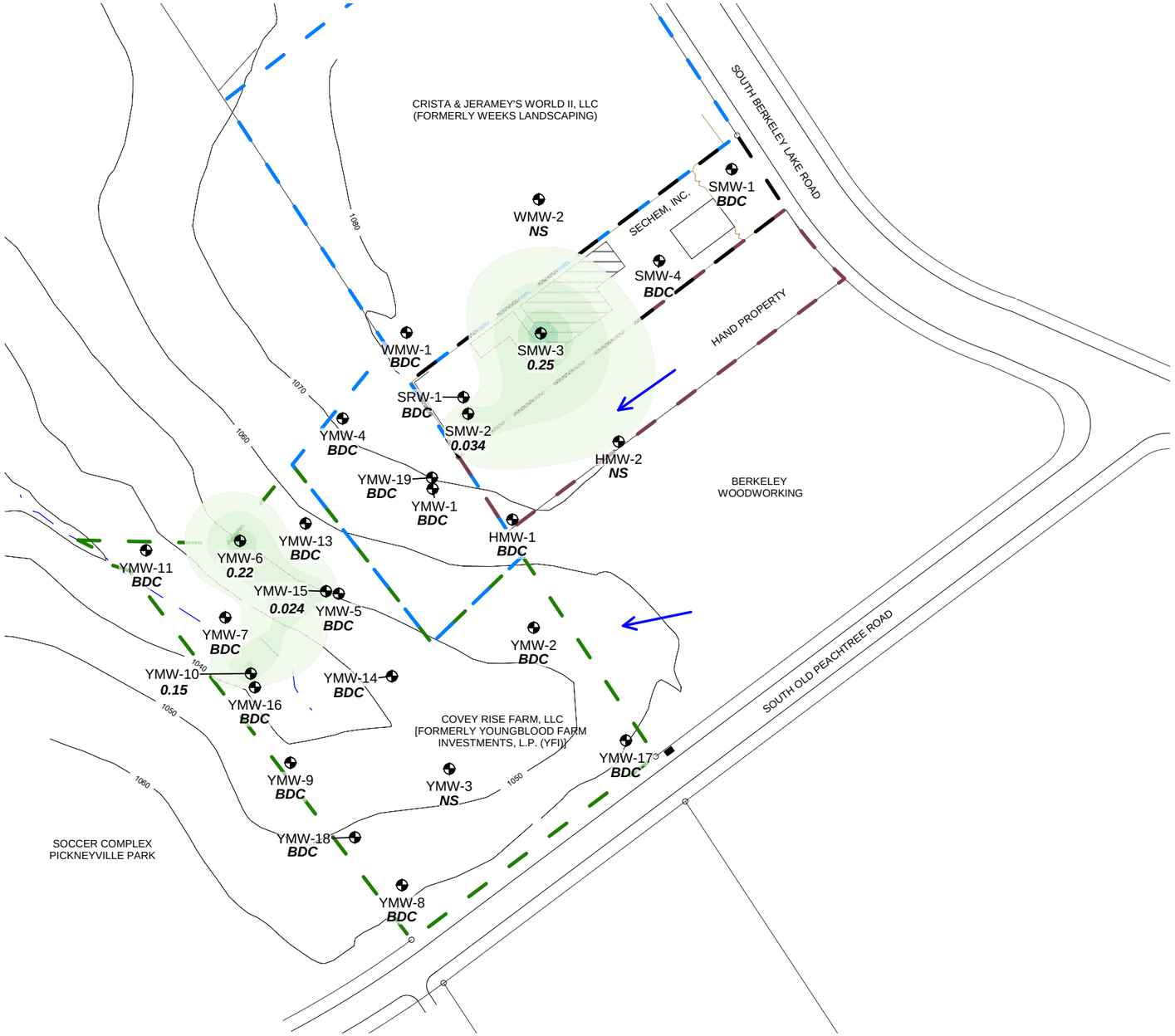
Project Number: 02.20180044.00

EARTHCON®

1880 West Oak Parkway, Bldg. 100 Suite 106
Marietta, Georgia 30062

Isoconcentration Map
1,2-Dichloroethene (1,2-DCE) Total
September-2017

Prepared by: HVP Checked by: AGL Figure: 10



LEGEND

- YMW-15 / 0.024 — Monitoring Well and Concentration (mg/L)
- *NS* — Not Sampled
- *BDC* — Below Delineation Criteria
- General Groundwater Flow Direction
- Property Boundary
- Christa & Jeramey's World II Property Line
- Hand Property Line
- Covey Rise Farm Property Line
- Intermittent Tributary to Mill Creek

Delineation Criteria = Type 1 Risk Reduction Standard (RRS) = 0.002 mg/L

Concentration (mg/L)

0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 1 | 2 | 3 | 4 | 5

Map Scale (ft)

0 — 150 — 300

SECHEM, INC.
4580 South Berkeley Lake Road
Norcross, Georgia
HSI Site Number 10515

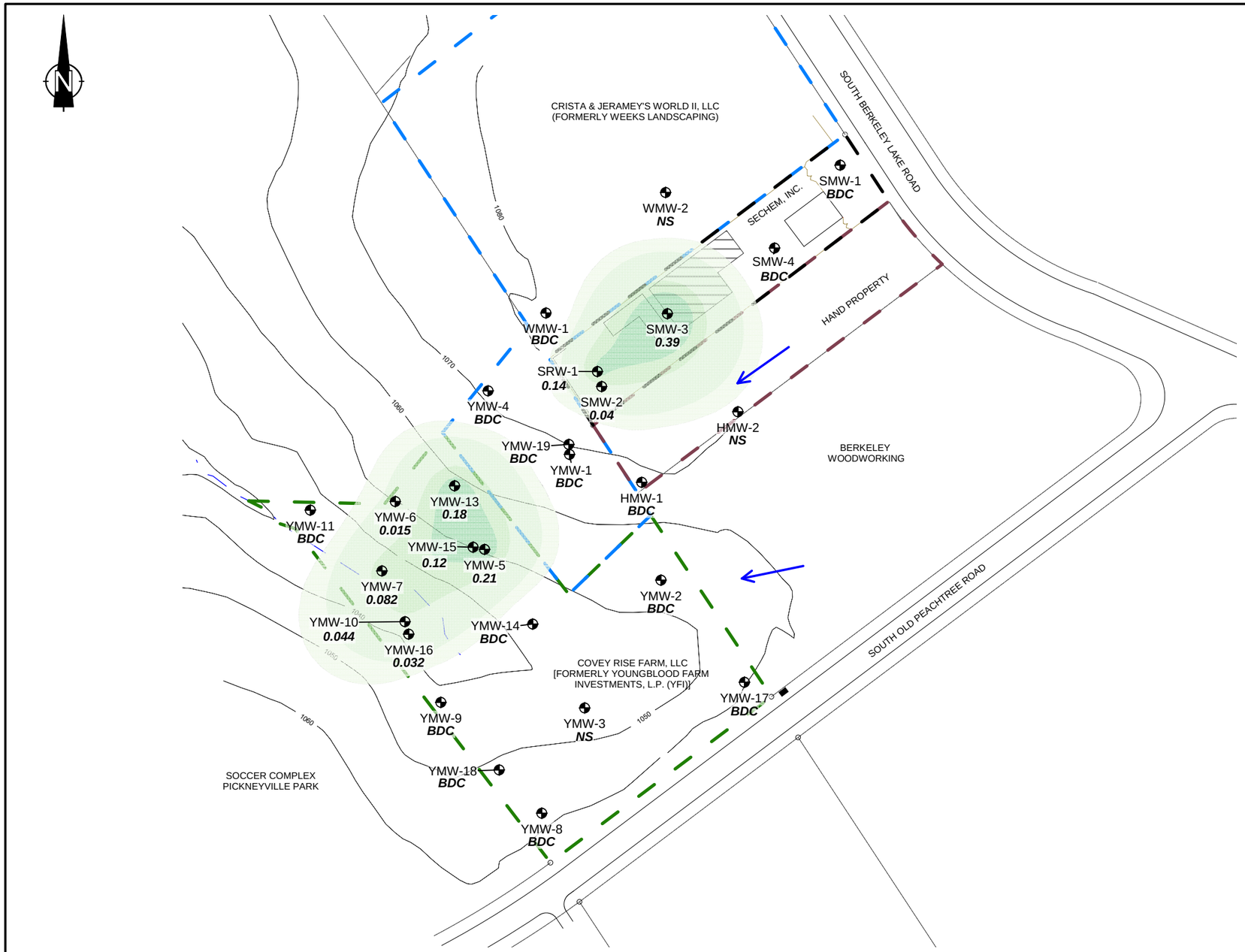
Project Number: 02.20180044.00

EARTHCON®

1880 West Oak Parkway, Bldg. 100 Suite 106
Marietta, Georgia 30062

Isoconcentration Map
Vinyl Chloride (VC)
September-2017

Prepared by: HVP Checked by: AGL Figure: 11



LEGEND

- YMW-15 / 0.95 — Monitoring Well and Concentration (mg/L)
- NS — Not Sampled
- BDC — Below Delineation Criteria
- General Groundwater Flow Direction
- Property Boundary
- Christa & Jeramey's World II Property Line
- Hand Property Line
- Covey Rise Farm Property Line
- Intermittent Tributary to Mill Creek

Delineation Criteria = Type 1 Risk Reduction Standard (RRS) = 0.005 mg/L

Concentration (mg/L)

0.005 0.01 0.05 0.1 0.5 1 2 3 4 5

Map Scale (ft)

0 150 300

SECHEM, INC.
4580 South Berkeley Lake Road
Norcross, Georgia
HSI Site Number 10515

Project Number: 02.20180044.00

EARTHCON®

1880 West Oak Parkway, Bldg. 100 Suite 106
Marietta, Georgia 30062

Isoconcentration Map
1,2-Dichloroethane (1,2-DCA)
September-2017

Prepared by: HVP Checked by: AGL Figure: 12

APPENDIX A

Summary of Field Procedures

APPENDIX A: SUMMARY OF FIELD PROCEDURES

A summary of the field activities performed from March 20 to 23, and September 13 to 18, 2017, are described in the following sections. Groundwater and surface water sampling field forms are provided in Appendix B. Laboratory analytical reports are provided in Appendix C.

GROUNDWATER SAMPLING

The groundwater sampling was conducted in general accordance with the United States Environmental Protection Agency (USEPA) Region 4 Science and Ecosystem Support Division (SESD) Operating Procedure (OP) for *Groundwater Sampling* (SESDPROC-301-R4, dated April 26, 2017).

Sample Containers

The laboratory provided sample containers with appropriate preservation, as needed, that met the sampling requirements of the event. The cleanliness of each batch of sample containers was verified by the laboratory.

The field technician was responsible for identifying the location of each sample collected, recording the date upon which the sample was obtained, the type of sample, the preservative used, and the applicable project number. This information was documented in the field book/field form. This same information was then placed on the sample identification label and the chain-of-custody record. Sample labels were filled out with indelible ink. If the field technician determined that additional information was pertinent to a sample, such data was recorded in the field log/field form.

Groundwater Level Measurements

Prior to sampling, the depth to groundwater and total well depth was measured using an electronic tape or water level indicator. A fixed point was marked with an indelible marker on each well to serve as a reference point for measurement. Depths were measured to the nearest 0.01 foot and recorded on the field sheet. The tape was cleaned with phosphate-free detergent and water, and rinsed with distilled water prior to each use. Water level measurements are presented in Table 2.

Well Purging

The monitoring wells were purged using a modified low flow/low volume method with a peristaltic or bladder pump and dedicated, disposable, Teflon-lined tubing. The non-dedicated equipment was decontaminated before use and between each well. The groundwater parameters of temperature, pH, specific conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity, were measured during purging, and are summarized on Table 3.

Purging continued until a minimum of three consecutive stable readings were measured with five-minute intervals between readings. The turbidity criterion of 10 NTUs was met for most wells with the exception of WMW-1 during the March and September 2017 events. Pumping rates were reduced as much as possible to reduce the amount of drawdown in the wells. After purging began, drawdown stabilized and was generally less than 0.33 feet for the majority of the wells. Purging was considered complete when the depth to water and water quality parameters stabilized.

Purge water from the wells was temporarily placed in 5-gallon buckets and emptied into 55-gallon drums located on the SECHEM property. Additional information regarding the purging and sampling activities, including the volume of water purged from each well, the purge rate, and depth to water during the purge process, are provided in the field sampling forms included in Appendix B.

Groundwater Sampling and Analysis

Groundwater samples were collected once purging was considered complete. The groundwater samples were placed in laboratory supplied, pre-preserved containers. The containers were labeled, placed in a cooler on ice, and transported to TestAmerica Atlanta, located in Norcross, Georgia. The groundwater samples were then shipped to TestAmerica Savannah, a NELAC-certified laboratory located, in Savannah GA, and analyzed for volatile organic compounds (VOCs) by EPA Method 8260B and 1,4 dioxane by EPA Method 8260B SIM. A summary of groundwater analytical results is presented in Table 4.

Decontamination Procedures

Prior to sampling and between each location, non-dedicated equipment such as the water level indicator, field measurement instrumentation, and non-dedicated sampling pumps, were cleaned with phosphate-free detergent and rinsed with distilled water in general accordance with the EPA SESD OP for *Field Equipment Cleaning and Decontamination* (SESDPROC-205-R2, December 2011). The equipment was allowed to air dry. Nitrile gloves were worn and changed between each sampling location.

Equipment Calibration

Equipment used to perform field testing on groundwater samples included an YSI 556 MP and SmartTroll MP multi-parameter and a Scientific Micro TPW, HF Scientific, or Hach turbidity meter to measure pH, specific conductivity, temperature, and turbidity. Equipment calibration was verified on a daily basis. Daily calibration readings/results were documented in field books.

Field Sampling Forms

Field personnel maintained a bound, water-resistant field notebook and field activities were recorded with indelible ink. Additionally, sampling field forms were completed for each sample.

The field notebook, sampling forms, and chain-of-custody records contain sufficient information to allow reconstruction of the sample collection and handling procedures at a later time.

Chain-of-Custody

The chain-of-custody record is used to track the custody of samples during transport and shipping. Samples were documented on the chain of custody form at the time of sample collection. The chain-of-custody record was filled out and initialed by the sampling field technician. Upon completion of appropriate line items, or upon sample pick-up, the field representative signed, dated, listed the time, and confirmed the completeness of descriptive information contained on the form. The chain-of-custody form accompanied the samples and terminated upon laboratory receipt of samples. The entries were recorded in ink. Each sample had a corresponding entry on a chain-of-custody record.

Analytical Procedures and QA/QC

The groundwater samples were transported to TestAmerica in Savannah via TestAmerica Atlanta, under chain-of-custody protocol. The samples were analyzed for VOCs by EPA Method 8260B and 1,4 dioxane by EPA Method 8260B SIM. Quality control samples, consisting of blind duplicates, trip blanks, and laboratory method blanks were also analyzed.

SURFACE WATER SAMPLING

On March 20, 2017 and September 18, 2017, surface water samples were collected at locations SW-1, SW-2, SW-3, and SW-4. Surface water sampling was conducted in general accordance with the EPA SESD OP for *Surface Water Sampling* (SESDPROC-201-R4, dated December 16, 2016). Each sample was collected by dipping a clean, dedicated Teflon® bottle into the creek while facing upstream and without disturbing the stream bed. With as little agitation as possible, the surface water samples were decanted from the Teflon bottle into pre-preserved 40 ml glass vials with Teflon septa. The vials were labeled, placed in a cooler on ice and transported to TestAmerica Savannah via TestAmerica Atlanta under chain of custody protocol and analyzed for volatile organic compounds (VOCs) by EPA Method 8260B and analyzed for 1,4 dioxane by EPA Method 8260B SIM.

APPENDIX B

Field Sampling Forms

March 2017

EARTHCON®

Groundwater Sampling Record

WELL No. SMW-1	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/21/17
SAMPLE No. SMW-1	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY R. Andrews /EarthCon	
SAMPLE TIME: 1435	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Sunny / Clear, 79°F	

Well Condition Inspection (circle one)

cover:	(locked)	not locked	
number:	(legible)	not legible	
outer casing:	(good)	fair	poor
inner casing:	(good)	fair	poor
well photographed:	(yes)	no	

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	31.65	Measuring Point Elevation (feet):	/
Depth of Well (feet):	44.25	Groundwater Surface Elevation:	/
Water Column (feet):	12.6	LNAPL present: /	thickness: /
Casing Volume (gallons/liters):	2.05	DNAPL present: /	thickness: /
Calculated 3 Purge Volume (gallons/liters):	6.16	Remarks: /	
Actual Purge Volume (gallons/liters):	2.75		
Pump Intake Depth (feet):	35	Ferrous Iron (mg/L): /	

Well Evacuation
Water level recovery is: very slow slow (moderate) fast Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1345	0								PURGE START
1350	0.1	20.21	4.88	3.71	176.3	113	28.4	33.58	Clear
1400	0.4	18.95	4.56	2.93	204.6	113	8.21	33.63	
1405	0.9	18.90	4.55	2.89	209.3	114	6.19	33.63	
1410	1.4	18.87	4.55	2.84	212.4	114	4.33	33.63	
1415	1.6	18.85	4.55	2.80	216.1	113	3.17	33.63	
1420	1.8	18.82	4.55	2.85	219.8	109	2.93	33.63	
1425	2.1	18.79	4.55	2.85	220.7	109	2.51	33.63	
1430	2.25	18.79	4.55	2.86	220.9	108	2.17	33.63	
1435	Sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
GW Quality Meter	YSI	556 MPS S/N-16B100831	3/21/17
GW Level Meter	Heron	dipper-T S/N-003774	/
Turbidimeter	Hach	2100Q S/N-10030C001312	3/21/17
Bladder Pump	QED	Sample Pro 1.75	/

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
SMW-1	VOCs	40 mL VOA	HCl	/
↓	1, 4 Dioxane	40 mL VOA	HCl	/

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Groundwater Sampling Record

WELL No. SMW-2	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/21/17
SAMPLE No. SMW-2	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry /EarthCon	
SAMPLE TIME: 13:45	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Mostly Sunny, 70's	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	29.02	Measuring Point Elevation (feet):	
Depth of Well (feet):	42.11	Groundwater Surface Elevation:	
Water Column (feet):	13.09	LNAPL present:	thickness:
Casing Volume (gallons/liters):	2.13	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	6.40	Remarks: Used check valve	
Actual Purge Volume (gallons/liters):	1.5		
Pump Intake Depth (feet):	~35	Ferrous Iron (mg/L):	

Well Evacuation

Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
13:03	0								PURGE START
13:10	0.45	16.1	6.67	0.38	-101.7	219.6	6.14	29.96	clear
13:15	0.55	16.7	6.73	0.35	-103.8	223.8	5.38	29.89	"
13:20	0.75	16.7	6.81	0.30	-105.4	226.3	5.47	29.91	"
13:25	0.95	16.8	6.77	0.31	-68.8	228.5	5.44	29.93	"
13:30	1.10	16.6	6.80	0.27	-11.6	-228.3	4.47	29.95	"
13:35	1.25	16.7	6.79	0.26	-38.1	-230.6	4.57	29.96	
13:40	1.45	16.4	6.83	0.24	-26.9	-230.8	4.36	29.97	
13:45		S	a	m	p	l	e		

Measurement and Sampling Equipment

Type	Manufacturer	Model #		Calibration Date
Multi-Parameter	YSI	Pro Plus	S/N 13J102028	3/21/17
Turbidimeter	HACH	2100 Q	S/N 12080C019573	3/21/17
Water Level	Solinst	Model 101	S/N 55563	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
SMW-2	VOCs	40 mL VOA	HCl	
"	1, 4 Dioxane	40 mL VOA	HCl	

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Groundwater Sampling Record

WELL No. SMW-3	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/21/17
SAMPLE No. SMW-3	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY R. Andrews	/EarthCon
SAMPLE TIME: 1650	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Sunny, 75°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: (yes) no

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	34.40	Measuring Point Elevation (feet):	/
Depth of Well (feet):	44	Groundwater Surface Elevation:	/
Water Column (feet):	9.6	LNAPL present: /	thickness: /
Casing Volume (gallons/liters):	1.56	DNAPL present: /	thickness: /
Calculated 3 Purge Volume (gallons/liters):	4.69	Remarks: /	
Actual Purge Volume (gallons/liters):	2.6		
Pump Intake Depth (feet):	35	Ferrous Iron (mg/L): /	

Well Evacuation
Water level recovery is: very slow slow (moderate) fast Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1600	0								PURGE START
1605	0.1	19.57	6.32	0.66	-43.4	165	9.51	35.20	slight odor
1615	1.0	19.39	6.33	0.46	-53.5	188	8.32	35.20	sheen
1625	1.4	19.18	6.35	0.37	-57.1	191	7.43	35.20	
1630	1.9	19.29	6.35	0.29	-58.4	193	5.23	35.20	
1635	2.2	19.56	6.34	0.24	-61.8	196	4.16	35.20	
1640	2.3	19.57	6.34	0.23	-62.7	197	3.49	35.20	
1645	2.5	19.58	6.33	0.22	-62.9	198	2.93	35.20	
1650	Sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
GW Quality Meter	YSI	556 MPS S/N-16B100831	3/21/17
GW Level Meter	Heron	dipper-T S/N-003774	/
Turbidimeter	Hach	2100Q S/N-10030C001312	3/21/17
Bladder Pump	QED	Sample Pro 1.75	/

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
SMW-3	VOCs	40 mL VOA	HCl	/
↓	1, 4 Dioxane	40 mL VOA	HCl	/

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Groundwater Sampling Record

WELL No. SMW-4	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/21/17
SAMPLE No. SMW-4	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton, Henry /EarthCon	
SAMPLE TIME: 16.55	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Partly Cloudy 55	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: (yes) no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter:

(circle one) (2") 4" 6" Other:___

Casing Volume Calculation: ($\pi r^2 h$)(7.48 gal/ft^3)
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	28.76	Measuring Point Elevation (feet):	
Depth of Well (feet):	40.45	Groundwater Surface Elevation:	
Water Column (feet):	11.69	LNAPL present:	thickness:
Casing Volume (gallons/liters):	1.91	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	5.72	Remarks:	
Actual Purge Volume (gallons/liters):			
Pump Intake Depth (feet):	~35'	Ferrous Iron (mg/L):	

Well Evacuation

Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
15:48	0								PURGE START
16:20 ~~15:55~~	6.40	18.6	4.84	7.27	50.4	53.8	7.65	29.55	clear
16:25	0.55	19.2	4.82	7.21	62.3	54.1	6.00	29.58	"
16:30	0.75	19.4	4.72	7.68	63.3	54.8	6.80	29.55	"
16:35	0.95	19.5	4.84	7.60	64.3	54.8	5.80	29.54	"
16:40	1.05	19.5	4.73	7.39	69.7	55.0	6.44	29.55	"
16:45	1.15	19.8	4.81	7.17	73.9	55.3	7.11	29.55	"
16:55		s	a	m	p	l	e		

Measurement and Sampling Equipment

Type	Manufacturer	Model #		Calibration Date
Multi-Parameter	YSI	Pro Plus	S/N 13J102028	3/21/17
Turbidimeter	HACH	2100 Q	S/N 12080C019573	3/21/17
Water Level Meter	Solinst	Model 101	S/N 55563	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
SMW-4	VOCs	40 mL VOA	HCl	
"	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. SRW-1	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/21/17
SAMPLE No. SRW-1	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 15:05	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Sunny, 80s	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: (yes) no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" (6") Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; (6" = 1.47)
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	28.49	Measuring Point Elevation (feet):	
Depth of Well (feet):	68.10	Groundwater Surface Elevation:	
Water Column (feet):	39.61	LNAPL present:	thickness:
Casing Volume (gallons/liters):	58.23	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	174.7	Remarks: No cap, used check valve	
Actual Purge Volume (gallons/liters):	1.55		
Pump Intake Depth (feet):	~62	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow (moderate) (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
14:19	0								PURGE START
14:25	stop	purging to	extend	tubing					
14:30	0.25	17.9	6.84	7.11	6.5	362.0	3.92	29.76	clear
14:35	0.60	16.9	6.17	6.68	44.9	59.6	2.37	29.79	"
14:40	0.76	16.8	6.18	6.38	31.0	58.7	2.31	29.89	"
14:45	1.0	17.1	6.17	6.48	43.7	58.5	1.72	29.96	"
14:50	1.20	17.1	6.19	6.41	34.7	59.3	2.17	29.04	"
14:55	1.40	17.2	6.19	6.22	30.2	58.6	1.55	29.08	"
15:00	1.50	~~17.2~~ 17.3	6.23	6.19	25.7	58.9		29.11	"
15:05		s	a	m	p	l	e		

Measurement and Sampling Equipment

Type	Manufacturer	Model #		Calibration Date
Multi-Parameter	YSI	Pro Plus	S/N 13J102028	3/21/17
Turbidimeter	HACH	2100Q	S/N 12080C019573	3/21/17
Water Level Meter	Solinst	Model 101	S/N 55563	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
SRW-1	VOCs	40 mL VOA	HCl	
4	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. WMW-1	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/21/17
SAMPLE No. WMW-1	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY R. Andrews	/EarthCon
SAMPLE TIME: 1225	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Sunny, Clear 72°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes no

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	28.72	Measuring Point Elevation (feet):	—
Depth of Well (feet):	40.61	Groundwater Surface Elevation:	—
Water Column (feet):	11.89	LNAPL present: —	thickness: —
Casing Volume (gallons/liters):	1.93	DNAPL present: —	thickness: —
Calculated 3 Purge Volume (gallons/liters):	5.81	Remarks: —	
Actual Purge Volume (gallons/liters):	1.1		
Pump Intake Depth (feet):	35	Ferrous Iron (mg/L): —	

Well Evacuation
Water level recovery is: very slow slow (moderate) fast Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1135	0								PURGE START
1140	0.1	21.66	6.61	2.76	47.8	87	14.9	34.55	Clear
1150	0.2	21.65	6.68	3.28	22.7	87	12.6	35.66	
1155	0.4	21.64	6.71	2.50	17.6	87	10.41	36.41	
1200	0.6	21.64	6.73	2.71	12.8	87	9.32	37.19	
1205	0.75	21.63	6.75	2.84	9.6	87	8.30	38.53	
1210	0.85	21.63	6.76	3.29	1.1	87	7.96	38.53	
1215	0.90	21.62	7.76	3.30	1.0	88	7.5	38.53	
1220	1.0	21.62	6.77	3.31	0.9	88	7.21	38.53	
1225	Sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
GW Quality Meter	YSI	556 MPS S/N-16B100831	3/21/17
GW Level Meter	Heron	dipper-T S/N-003774	—
Turbidimeter	Hach	2100Q S/N-10030C001312	3/21/17
Bladder Pumps	QED	Sample Pro 1.75	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
WMW-1	VOCs	40 mL VOA	HCl	—
WMW-1	1, 4 Dioxane	40 mL VOA	HCl	—

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-1	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/21/17
SAMPLE No. YMW-1	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 11:35	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Sunny, 70's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	28.74	Measuring Point Elevation (feet):	
Depth of Well (feet):	40.61	Groundwater Surface Elevation:	
Water Column (feet):	11.87	LNAPL present:	thickness:
Casing Volume (gallons/liters):	1.93	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	5.80	Remarks:	Wed check valve. Water has reddish hue
Actual Purge Volume (gallons/liters):	2.95		
Pump Intake Depth (feet):	~32'	Ferrous Iron (mg/L):	

Well Evacuation

Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
10:14	0								PURGE START
10:20	0.55	16.2	6.11	0.71	-15.8	75.3	136	29.16	sl cloudy, reddish hue
10:25	0.70	16.2	6.14	0.62	-22.8	76.8	90.0	29.16	
10:30	0.90	16.2	6.17	0.63	-29.5	78.5	67.9	29.19	clear, reddish hue
10:40	1.25	16.2	6.16	0.78	-35.6	84.4	42.7	29.21	"
10:50	1.55	16.2	6.19	0.38	-41.0	83.6	26.7	29.23	"
11:00	1.95	16.3	6.21	0.32	-50.1	85.6	19.4	29.23	"
11:05	2.10	16.4	6.19	0.31	-44.8	85.7	18.5	29.24	"
11:10	2.35	16.3	6.13	0.29	-50.6	86.0	16.0	29.24	"
11:15	2.50	16.3	6.13	0.29	-52.8	86.2	15.3	29.26	
11:20	2.70	16.5	6.14	0.27	-55.1	87.2	12.8	29.24	
11:25	2.90	16.5	6.21	0.28	-51.8	88.4	9.92	29.24	"
11:25		S	a	m	p	l	e		

Measurement and Sampling Equipment

Type	Manufacturer	Model #		Calibration Date
Multi-Parameter	YSI	Pro Plus	S/N 13J102028	3/21/17
Turbidimeter	HACH	2100 Q	S/N 12080C019573	3/21/17
Water Level	~~Heron~~ Solinst	~~Solinst~~ Model 101	S/N 55563	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-1	VOCs	40 mL VOA	HCl	
4	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-2	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/22/17
SAMPLE No. YMW-2	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY R. Andrews	/EarthCon
SAMPLE TIME: 1655	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Partly Cloudy 69°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: (yes) no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	15.54	Measuring Point Elevation (feet):	/
Depth of Well (feet):	22.30	Groundwater Surface Elevation:	/
Water Column (feet):	6.76	LNAPL present: /	thickness: /
Casing Volume (gallons/liters):	1.10	DNAPL present: /	thickness: /
Calculated 3 Purge Volume (gallons/liters):	3.30	Remarks: /	
Actual Purge Volume (gallons/liters):			
Pump Intake Depth (feet):	17	Ferrous Iron (mg/L): /	

Well Evacuation
Water level recovery is: very slow slow (moderate) fast Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1620	0								PURGE START
1625	0.1	16.77	5.44	1.34	181.3	64	24.1	15.70	Clear
1630	0.4	16.90	5.47	1.10	181.0	64	15.0	15.72	
1635	0.6	16.84	5.46	0.87	183.0	63	9.10	15.72	
1640	0.8	16.69	5.46	0.79	183.9	63	7.41	15.72	
1645	1.0	16.84	5.46	0.78	185.3	63	5.13	15.72	
1650	1.2	16.79	5.46	0.77	184.7	63	4.19	15.72	↓
1655	Sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
GW Quality Meter	YSI	556 MPS S/N-16[illegible]00831	3/22/17
GW Level Meter	Heron	dipper-T S/N 003774	/
Turbidimeter	Hach	2100Q S/N-10030C001312	3/22/17
Peristaltic Pump	Geotech	Geopump	/

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-2	VOCs	40 mL VOA	HCl	/
YMW-2	1, 4 Dioxane	40 mL VOA	HCl	/

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-4	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/21/17
SAMPLE No. YMW-4	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY R. Andrews	/EarthCon
SAMPLE TIME: 1025	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Sunny / Clear, 57°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes no

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	33.62	Measuring Point Elevation (feet):	—
Depth of Well (feet):	38.18	Groundwater Surface Elevation:	—
Water Column (feet):	4.56	LNAPL present: —	thickness: —
Casing Volume (gallons/liters):	0.74	DNAPL present: —	thickness: —
Calculated 3 Purge Volume (gallons/liters):	2.2	Remarks: —	
Actual Purge Volume (gallons/liters):	2.0		
Pump Intake Depth (feet):	36	Ferrous Iron (mg/L): —	

Well Evacuation
Water level recovery is: very slow (slow) moderate fast Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0920	0								PURGE START
0925	0.1	17.05	5.46	4.15	204.8	[illegible]74	59	34.12	cloudy
0930	0.5	17.03	5.44	4.03	207.9	71	51.4	34.18	cloudy
0940	0.7	17.14	5.47	3.79	212.2	69	28.4	34.25	clear
0950	0.85	17.09	5.46	3.49	214.8	69	27.1	34.29	↓
1000	1.2	17.35	5.48	3.36	216.7	72	15.8	34.35	↓
1010	1.4	17.52	5.51	3.04	219.3	74	8.33	34.40	↓
1015	1.6	17.53	5.51	2.98	220.0	75	8.24	34.40	↓
1020	1.9	17.68	5.52	3.05	219.9	75	8.16	34.40	↓
1025	Sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
GW Quality Meter	YSI	556 MPS SN-16B100831	3/21/17
GW Level Meter	Heron	dipper-T SN-003774	—
Turbidimeter	Hach	2100 Q SN-10030C001312	3/21/17
Bladder Pump	QED	Sample Pro 1.75	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-4	VOCs	40 mL VOA	HCl	—
↓	1, 4 Dioxane	40 mL VOA	HCl	—

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-5	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/23/17
SAMPLE No. YMW-5	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY R. Andrews /EarthCon	
SAMPLE TIME: 1240	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Partly Cloudy, 60°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: (yes) no

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	15.67	Measuring Point Elevation (feet):	/
Depth of Well (feet):	35.75	Groundwater Surface Elevation:	/
Water Column (feet):	20.08	LNAPL present: /	thickness: /
Casing Volume (gallons/liters):	3.27	DNAPL present: /	thickness: /
Calculated 3 Purge Volume (gallons/liters):	9.81	Remarks:	DUP 2 collected
Actual Purge Volume (gallons/liters):	2.9		
Pump Intake Depth (feet):	30	Ferrous Iron (mg/L):	/

Well Evacuation
Water level recovery is: very slow slow (moderate) fast Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1125	0								PURGE START
1130	0.1	15.32	6.19	3.31	157.5	242	26.0	16.05	clear
1135	0.3	15.35	6.19	3.01	142.7	242	17.4	16.09	
1140	0.5	15.37	6.18	1.04	136.6	242	14.9	16.09	
1150	0.7	15.47	6.18	0.70	126.4	243	10.3	16.09	
1155	0.9	15.47	6.18	0.68	118.0	244	9.79	16.09	
1200	1.2	15.53	6.17	0.89	105.4	251	9.36	16.09	
1205	1.5	15.53	6.16	0.78	91.1	256	9.14	16.09	
1210	1.7	15.57	6.16	0.56	86.1	262	8.51	16.09	
1215	1.9	15.64	6.17	0.46	76.0	266	8.04	16.09	
1220	2.1	15.69	6.16	0.53	68.1	273	7.73	16.09	
1225	2.4	15.65	6.16	0.47	64.2	276	7.02	16.09	
1230	2.6	15.64	6.16	0.46	64.3	276	6.51	16.09	
1235	2.8	15.63	6.16	0.47	64.8	276	6.13	16.09	
1240	Sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
GW Quality Meter	YSI	556 MPS S/N-16B100931	3/23/17
GW Level Meter	Heron	dipper-T S/N-003774	/
Turbidimeter	Hach	2100a S/N-10030C001312	3/27/17
Peristaltic Pump	Geotech	Geopump	/

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-5	VOCs	40 mL VOA	HCl	/
↓	1, 4 Dioxane	40 mL VOA	HCl	/

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-6	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/22/17
SAMPLE No. YMW-6	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY R. Andrews /EarthCon	
SAMPLE TIME: 1025	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Cloudy, 55°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: (yes) no

Equipment Cleaning Procedures

(- potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
(- air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	18.35	Measuring Point Elevation (feet):	—
Depth of Well (feet):	27.90	Groundwater Surface Elevation:	—
Water Column (feet):	9.55	LNAPL present: —	thickness: —
Casing Volume (gallons/liters):	1.55	DNAPL present: —	thickness: —
Calculated 3 Purge Volume (gallons/liters):	4.66	Remarks: —	
Actual Purge Volume (gallons/liters):	1.9		
Pump Intake Depth (feet):	20	Ferrous Iron (mg/L): —	

Well Evacuation
Water level recovery is: very slow slow (moderate) fast Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0940	0								PURGE START
0945	0.1	15.20	5.89	4.12	179.6	102	5.85	18.62	Clear
0950	0.5	15.30	5.82	3.77	180.8	91	4.76	18.62	↑
0955	0.9	15.28	5.77	3.46	182.1	84	3.17	18.62	↑
1000	0.9	15.27	5.77	3.35	181.9	77	2.19	18.62	↑
1005	1.2	15.26	5.77	3.29	182.9	72	1.04	18.62	↑
1010	1.4	15.24	5.78	3.23	183.7	70	0.97	18.62	↑
1015	1.6	15.24	5.79	3.22	184.1	69	0.53	18.62	↑
1020	1.8	15.25	5.79	3.22	184.5	69	0.27	18.62	↓
1025	Sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
GW Quality Meter	YSI	556 MPS S/N-16B100831	3/22/17
GW Level Meter	Heron	Dipper-T S/N-003774	—
Turbidimeter	Hach	2100Q S/N-10030C001312	3/22/17
Peristaltic Pump	Geotech	Geopump	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-6	VOCs	40 mL VOA	HCl	—
↓	1, 4 Dioxane	40 mL VOA	HCl	—

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-7	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/22/17
SAMPLE No. YMW-7	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry /EarthCon	
SAMPLE TIME: 11:35	SITE Norcross, GA	FIELD CONDITIONS/WEATHER (Cloudy, 60's)	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: (yes) no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: (2" = 0.163) 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	5.49	Measuring Point Elevation (feet):	
Depth of Well (feet):	22.74	Groundwater Surface Elevation:	
Water Column (feet):	17.25	LNAPL present:	thickness:
Casing Volume (gallons/liters):	2.81	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	8.44	Remarks:	
Actual Purge Volume (gallons/liters):	1.80		
Pump Intake Depth (feet):	~17	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
10:58	0								PURGE START
11:05	0.35	12.5	6.07	3.59	63.6	81.1	0.53	5.63	Clear
11:10	0.65	12.5	6.08	3.55	47.7	81.1	0.65	5.63	"
11:15	0.95	12.6	5.91	3.48	46.7	81.1	0.72	5.64	"
11:20	1.20	12.6	5.83	3.54	45.6	81.1	0.63	5.64	"
11:25	1.50	12.6	5.87	3.61	40.0	81.1	0.57	5.63	"
11:30	1.80	12.7	5.85	3.51	37.0	81.2	0.60	5.63	"
11:35		Sample							

Measurement and Sampling Equipment

Type	Manufacturer	Model #		Calibration Date
Multi-Parameter	YSI	Pro Plus	S/N 13J102028	3/22/17
Turbidimeter	HACH	2100 Q	S/N 12080C019573	3/22/17
WL Meter	Solinst	Model 101	S/N 555563	"

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-7	VOCs	40 mL VOA	HCl	
"	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-8	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/23/17
SAMPLE No. YMW-8	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Kraton Henry /EarthCon	
SAMPLE TIME: 12:45	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Partly Cloudy, Windy, 50's	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	20.62	Measuring Point Elevation (feet):	
Depth of Well (feet):	31.08	Groundwater Surface Elevation:	
Water Column (feet):	10.46	LNAPL present:	thickness:
Casing Volume (gallons/liters):	1.70	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	5.11	Remarks:	
Actual Purge Volume (gallons/liters):	12.75		
Pump Intake Depth (feet):	~26	Ferrous Iron (mg/L):	

Well Evacuation

Water level recovery is: very slow / slow / moderate / fast — Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
11:44	0								PURGE START
11:50	0.40	15.99	5.84	5.08	262.5	45	7.87	20.84	clear
11:55	0.70	16.58	5.84	4.68	266.2	46	25.0	20.86	very sl cloudy (very)
12:00	0.90	16.86	5.84	4.81	268.9	46	29.5	20.86	"
12:05	1.20	16.67	5.85	4.77	273.3	45	29.2	20.87	"
12:10	1.45	16.58	5.85	4.73	276.4	44	30.7	20.86	"
12:15	1.60	16.79	5.86	4.46	279.9	45	22.3	20.86	"
12:25	2.05	17.08	5.87	4.48	285.2	46	46.2	20.86	sl cloudy
12:30	2.35	17.57	5.87	4.57	285.9	46	11.2	20.87	clear
12:35	2.60	17.81	5.88	4.69	285.6	46	7.77	20.87	"
12:45		S	a	m	p	l	e		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	MPS 556 S/N 10J100596	3/23/17
Turbidimeter	HACH	2100 Q S/N 12080C019573	3/23/17
WL Meter	Solinst	Model 101 S/N 55563	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-8	VOCs	40 mL VOA	HCl	
4	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-9	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/22/17
SAMPLE No. YMW-9	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry /EarthCon	
SAMPLE TIME: 17:20	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Mostly Cloudy, 70's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: (yes) no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	7.51	Measuring Point Elevation (feet):	
Depth of Well (feet):	24.71	Groundwater Surface Elevation:	
Water Column (feet):	17.2	LNAPL present:	thickness:
Casing Volume (gallons/liters):	2.80	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	8.41	Remarks:	
Actual Purge Volume (gallons/liters):	1.25		
Pump Intake Depth (feet):	~21'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1636	0								PURGE START
16.40	0.20	13.1	5.30	3.84	14.6	102.9	3.86	7.99	clear
16.45	0.40	13.0	5.30	3.65	1.9	102.4	3.72	8.03	"
16.55	0.75	13.0	5.26	3.40	-6.3	101.7	3.08	8.16	"
17.00	0.95	12.9	5.24	3.63	-6.9	101.6	2.47	8.16	"
17:05	1.10	12.9	5.15	3.84	0.4	101.6	2.58	8.15	"
17:10	1.25	12.8	5.16	3.50	-4.5	101.6	2.63	8.16	"
17:20		s	a	m	p	l e			

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	Pro Plus S/N 13J102028	3/22/17
Turbidimeter	HACH	2100 Q S/N 120800019573	3/22/17
WL Meter	Solinst	Model 101 S/N 55563	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-9	VOCs	40 mL VOA	HCl	
"	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-10	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/22/17
SAMPLE No. YMW-10	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 15:45	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Mostly Cloudy, 60's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: (yes) no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: (2" = 0.163;) 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	6.51	Measuring Point Elevation (feet):	
Depth of Well (feet):	26.45	Groundwater Surface Elevation:	
Water Column (feet):	19.94	LNAPL present:	thickness:
Casing Volume (gallons/liters):	3.25	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	9.75	Remarks: lt reddish hue. Collected Dup-01	
Actual Purge Volume (gallons/liters):	2.90		
Pump Intake Depth (feet):	~22'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
14:42	0								PURGE START
14:45	0.10	13.3	5.85	0.95	-10.8	174.5	59.6	6.75	sl. cloudy
14:55	0.75	13.5	5.82	0.63	-20.1	179.9	44.0	6.78	~~clear~~ "
15:00	0.95	13.5	5.81	0.58	-22.3	181.6	33.7	6.78	"
15:05	1.1025	13.6	5.85	0.52	-34.5	186.7	22.0	6.80	clear
15:10	1.45	13.6	5.93	0.47	-36.8	188.2	21.1	6.77	"
15:15	1.75	13.6	5.91	0.49	-39.1	188.0	17.4	6.77	"
15:20	2.0	13.6	5.89	0.53	-41.7	187.7	15.7	6.77	"
15:30	2.50	13.7	5.86	0.44	-43.5	192.9	12.7	6.77	"
15:35	2.80	13.7	5.87	~~0.6147~~	-49.6	192.1	9.76	6.77	"
~~15:40~~	~~45~~			0.47					
15:45		S	a	m	p	l	e		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	Pro Plus S/N 13J102028	3/22/17
Turbiclimeter	HACH	2100 Q S/N 12080C019573	3/22/17
WL Meter	Solinst	Model 101 S/N 55563	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-10	VOCs	40 mL VOA	HCl	
"	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-11	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/22/17
SAMPLE No. YMW-11	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 10.25	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Mostly Cloudy, 60'	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: (yes) no

Equipment Cleaning Procedures

(potable water and phosphate-free soap)
(potable water rinse)
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
(air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for (2" = 0.163); 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	4.85	Measuring Point Elevation (feet):	
Depth of Well (feet):	26.09	Groundwater Surface Elevation:	
Water Column (feet):	21.24	LNAPL present:	thickness:
Casing Volume (gallons/liters):	3.46	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	10.39	Remarks:	
Actual Purge Volume (gallons/liters):	2.65		
Pump Intake Depth (feet):	~21'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
9:39	0								PURGE START
9:45	0.75	13.0	6.11	3.59	29.2	91.8	5.66	6.40	clear
9:50	1.10	12.7	6.14	3.29	18.5	89.0	5.96	6.25	"
9:55	1.40	12.8	6.00	3.63	20.3	88.9	6.75	6.19	"
10:00	1.85	12.8	5.94	3.61	20.4	88.8	9.76	6.20	"
10:05	2.05	12.9	5.89	3.58	20.1	88.1	11.8	6.19	"
10:10	2.40	12.8	5.87	3.65	20.1	87.5	10.0	6.22	"
10:15	2.65	12.9	5.84	3.70	19.8	88.3	7.99	6.18	"
10:25		s	a	m	p	l	e		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	Pro Plus	S/N 13J102028	3/22/17
Turbidimeter	HACH	2100 Q	S/N 12080C019573	3/22/17
WL Meter	Solinst	Model 101	S/N 55563	=

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-11	VOCs	40 mL VOA	HCl	
"	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-13	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/22/17
SAMPLE No. YMW-13	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY R. Andrews	/EarthCon
SAMPLE TIME: 1200	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Cloudy, 60°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: (yes) no

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	22.74	Measuring Point Elevation (feet):	—
Depth of Well (feet):	31.80	Groundwater Surface Elevation:	—
Water Column (feet):	9.06	LNAPL present: —	thickness: —
Casing Volume (gallons/liters):	1.47	DNAPL present: —	thickness: —
Calculated 3 Purge Volume (gallons/liters):	4.43	Remarks: —	
Actual Purge Volume (gallons/liters):	2.0		
Pump Intake Depth (feet):	25	Ferrous Iron (mg/L): —	

Well Evacuation
Water level recovery is: very slow slow (moderate) fast Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1110	0								PURGE START
1115	0.1	16.11	5.26	1.95	210.5	70	4.63	23.30	clear
1120	0.3	16.22	5.22	1.97	213.7	70	4.26	23.30	
1125	0.5	16.27	5.21	1.95	215.4	71	4.17	23.30	
1130	0.7	16.47	5.21	160	217.3	70	3.89	23.30	
1135	0.9	16.50	5.20	1.46	220.3	70	3.62	23.30	
1140	1.2	16.52	5.20	1.31	222.6	70	3.16	23.30	
1145	1.4	16.55	5.21	1.18	223.5	70	3.04	23.30	
1150	1.6	16.54	5.21	1.23	223.5	70	2.83	23.30	
1155	1.9	16.65	5.22	1.20	223.6	70	2.61	23.30	↓
1200	sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality Meter	YSI	556 MPS S/N-16B100831	3/22/17
GW Level Meter	Heron	dipper-T S/N-003774	—
Turbidimeter	Hach	2100 Q - S/N - 10030C001312	3/22/17
Peristaltic Pump	Geotech	Geopump	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-13	VOCs	40 mL VOA	HCl	—
↓	1, 4 Dioxane	40 mL VOA	HCl	—

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-14	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/22/17
SAMPLE No. YMW-14	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY R. Andrews	/EarthCon
SAMPLE TIME: 1555	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Cloudy, 68°F	

Well Condition Inspection (circle one)

cover:	(locked)	not locked	
number:	(legible)	not legible	
outer casing:	(good)	fair	poor
inner casing:	(good)	fair	poor
well photographed:	(yes)	no	

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	9.46	Measuring Point Elevation (feet):	/
Depth of Well (feet):	22.38	Groundwater Surface Elevation:	/
Water Column (feet):	12.42	LNAPL present: /	thickness: /
Casing Volume (gallons/liters):	2.02	DNAPL present: /	thickness: /
Calculated 3 Purge Volume (gallons/liters):	6.07	Remarks: /	
Actual Purge Volume (gallons/liters):	14		
Pump Intake Depth (feet):	17	Ferrous Iron (mg/L): /	

Well Evacuation
Water level recovery is: very slow slow (moderate) fast Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1515	0								PURGE START
1520	0.1	16.40	5.38	3.05	116.2	114	15.9	10.13	clear
1525	0.3	15.95	5.25	1.32	132.4	115	9.89	10.13	
1530	0.5	15.87	5.26	0.94	140.3	108	9.02	10.14	
1535	0.8	15.75	5.25	0.76	148.5	104	8.71	10.14	
1540	1.2	15.67	5.24	0.67	153.3	103	7.56	10.14	
1545	1.6	15.59	5.22	0.65	154.1	103	7.17	10.14	
1550	1.8	15.59	5.22	0.66	153.8	103	7.10	10.14	
1555	Sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
GW Quality Meter	YSI	556 MPS S/N-16B100831	3/22/17
GW Level Meter	Heron	dipper-T S/N-003774	—
Turbidimeter	Hach	2100Q S/N-10030C001312	3/22/17
Peristaltic Pump	Geotech	Geopump	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-14	VOCs	40 mL VOA	HCl	/
↓	1, 4 Dioxane	40 mL VOA	HCl	/

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-15	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/22/17
SAMPLE No. YMW-15	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY R. Andrews	/EarthCon
SAMPLE TIME: 1450	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Cloudy, 62°F	

Well Condition Inspection (circle one)

cover:	(locked)	not locked	
number:	(legible)	not legible	
outer casing:	(good)	fair	poor
inner casing:	(good)	fair	poor
well photographed:	yes	no	

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	17.02	Measuring Point Elevation (feet):	—
Depth of Well (feet):	40.2	Groundwater Surface Elevation:	—
Water Column (feet):	23.18	LNAPL present: —	thickness: —
Casing Volume (gallons/liters):	3.77	DNAPL present: —	thickness: —
Calculated 3 Purge Volume (gallons/liters):	11.33	Remarks: —	
Actual Purge Volume (gallons/liters):	2.0		
Pump Intake Depth (feet):	48	Ferrous Iron (mg/L): —	

Well Evacuation
Water level recovery is: very slow slow (moderate) fast Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1355	0								PURGE START
1400	0.1	16.47	6.47	4.30	182.3	168	1.43	17.12	clear
1405	0.4	16.41	6.42	2.78	103.9	175	1.26	17.12	
1410	0.6	16.40	6.40	1.93	59.3	182	1.03	17.12	
1415	0.8	16.45	6.39	1.05	42.1	185	0.92	17.12	
1420	0.9	16.44	6.38	1.54	36.9	185	0.73	17.12	
1425	1.1	16.53	6.36	1.27	38.7	186	0.51	17.12	
1430	1.3	16.51	6.35	0.58	40.3	187	0.23	17.12	
1435	1.5	16.46	6.34	0.46	42.8	190	0.14	17.12	
1440	1.7	16.48	6.33	0.47	43.4	190	0.0	17.12	
1445	1.9	16.47	6.33	0.46	42.9	191	0.0	17.12	
1450	Sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
GW Quality Meter	YSI	556 MPS S/N-16B100831	3/22/17
GW Level Meter	Heron	dipper-T S/N-003774	—
Turbidimeter	Hach	2100Q S/N-10030C001312	3/22/17
Peristaltic Pump	Geotech	Geopump	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-15	VOCs	40 mL VOA	HCl	—
↓	1, 4 Dioxane	40 mL VOA	HCl	—

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-16	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/22/17
SAMPLE No. YMW-16	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 14:25	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Cloudy, ~

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: (yes) no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for (2" = 0.163); 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	5.67	Measuring Point Elevation (feet):	
Depth of Well (feet):	37.84	Groundwater Surface Elevation:	
Water Column (feet):	32.17	LNAPL present:	thickness:
Casing Volume (gallons/liters):	5.24	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	15.73	Remarks:	
Actual Purge Volume (gallons/liters):	1.75		
Pump Intake Depth (feet):	~34'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
13:44	0								PURGE START
13:50	0.35	13.5	6.19	1.48	25.1	131.9	0.21	5.73	clear
13:55	0.70	13.5	6.21	1.31	5.9	132.3	0.35	5.74	"
14:00	0.90	13.5	6.17	1.29	-4.9	132.4	0.25	5.74	"
14:05	1.05	13.5	6.13	1.26	-4.0	132.5	0.21	5.74	"
14:10	1.30	13.5	6.12	1.23	-14.4	132.4	0.22	5.75	"
14:15	1.60	13.5	6.08	1.24	-16.5	132.6	0.25	5.74	"
14:25		S	a	m	p	l	e		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	Pro Plus S/N 13J102028	3/22/17
Turbidimeter	HACH	2100 Q S/N 12080C019573	3/22/17
WL Meter	Solinst	Model 101 S/N 55563	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-16	VOCs	40 mL VOA	HCl	
"	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-17	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/23/17
SAMPLE No. YMW-17	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY R. Andrews	/EarthCon
SAMPLE TIME: 1035	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Partly Cloudy, 51°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: (yes) no

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	11.72	Measuring Point Elevation (feet):	—
Depth of Well (feet):	58.16	Groundwater Surface Elevation:	—
Water Column (feet):	46.44	LNAPL present: —	thickness: —
Casing Volume (gallons/liters):	7.56	DNAPL present: —	thickness: —
Calculated 3 Purge Volume (gallons/liters):	22.70	Remarks: —	
Actual Purge Volume (gallons/liters):	1.80		
Pump Intake Depth (feet):	53	Ferrous Iron (mg/L): —	

Well Evacuation
Water level recovery is: very slow slow (moderate) fast
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0940	0								PURGE START
0945	0.1	14.27	6.91	7.66	158.4	65	5.96	11.80	clear
0950	0.3	14.80	6.61	6.47	171.3	73	0.71	11.82	↓
0955	0.5	14.90	6.59	6.62	176.0	68	0.53	11.83	↓
1000	0.75	15.16	6.40	6.80	171.9	56	0.0	11.83	↓
1005	0.95	15.21	6.30	6.73	172.7	54	0.0	11.83	↓
1010	1.0	15.27	6.34	6.69	173.9	53	0.0	11.83	↓
1015	1.25	15.36	6.33	6.90	176.1	52	0.0	11.83	↓
1020	1.40	15.51	6.34	6.79	176.9	50	0.0	11.83	↓
1025	1.55	15.55	6.34	6.74	176.8	51	0.0	11.83	↓
1030	1.70	15.56	6.34	6.76	176.7	51	0.0	11.83	↓
1035	Sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
G-W Quality Meter	YSI	556 MPS S/N - 16B100831	3/23/17
G-W Level Meter	Heron	dipper-T S/N - 003774	—
Turbidimeter	Hach	2100Q S/N - 10030C001312	3/23/17
Peristaltic Pump	Geotech	Geopump	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-17	VOCs	40 mL VOA	HCl	—
↓	1, 4 Dioxane	40 mL VOA	HCl	—

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-18	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/23/17
SAMPLE No. YMW-18	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry /EarthCon	
SAMPLE TIME: 11:30	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Mostly Sunny, Windy 50's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: (yes) no

Equipment Cleaning Procedures

(- potable water and phosphate-free soap)
(- potable water rinse)
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
(- air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: (2" = 0.163); 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	13.26	Measuring Point Elevation (feet):	
Depth of Well (feet):	51.19	Groundwater Surface Elevation:	
Water Column (feet):	37.93	LNAPL present:	thickness:
Casing Volume (gallons/liters):	6.18	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	18.54	Remarks:	
Actual Purge Volume (gallons/liters):	2.45		
Pump Intake Depth (feet):	~46'	Ferrous Iron (mg/L):	

Well Evacuation

Water level recovery is: (very slow) slow moderate fast — Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
10:08	0								PURGE START
10:15	0.60	14.74	6.75	4.63	203.5	155	2.00	15.98	clear
10:20	0.75	14.71	6.74	3.75	205.8	135	2.06	16.86	"
10:25	0.95	14.61	6.73	3.72	216.6	115	1.95	17.68	"
10:30	1.10	14.80	6.72	3.86	232.9	110	1.88	18.45	"
10:35	1.20	14.79	6.72	3.71	236.3	103	1.95	18.95	"
10:40	1.45	14.90	6.71	3.65	238.4	99	2.00	19.67	"
10:45	1.55	14.81	6.71	3.60	238.4	90	2.05	20.22	"
10:50	1.75	14.85	6.71	3.46	241.9	87	1.66	20.95	"
10:55	1.95	14.80	6.71	3.45	244.5	85	2.11	21.37	"
11:00	2.10	15.15	6.71	3.66	245.4	84	2.23	21.89	"
11:05	2.40	15.46	6.71	3.64	244.2	82	1.65	22.45	"
11:10	2.55	15.29	6.71	3.51	244.3	82	1.82	22.72	"
11:15	2.65	15.00	6.71	3.55	245.9	81	2.29	22.97	"
11:20	2.75	14.95	6.71	3.50	246.6	81	2.04	23.15	"
11:30		s	a	m	p	l	e		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	MPS 556 S/N 16J100596	3/23/17
Turbidimeter	HACH	2100 Q S/N 12080C019573	3/23/17
WL Meter	Solinst	Model 101 S/N 55563	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-18	VOCs	40 mL VOA	HCl	
"	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-19	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/21/17
SAMPLE No. YMW-19	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry /EarthCon	
SAMPLE TIME: 9:40	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Sunny, 60's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: (yes) no

Equipment Cleaning Procedures

(- potable water and phosphate-free soap)
(- potable water rinse)
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
(- air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for (2" = 0.163); 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 28.02
Depth of Well (feet): 102.50
Water Column (feet):
Casing Volume (gallons/liters):
Calculated 3 Purge Volume (gallons/liters):
Actual Purge Volume (gallons/liters): 170
Pump Intake Depth (feet): ~99

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks: Used check valve
Ferrous Iron (mg/L):

Well Evacuation
Water level recovery is: very slow slow moderate (fast)
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
9:05	0								PURGE START
9.10	0.30	15.1	6.81	5.34	49.7	98.7	394	28.31	cloudy
9:15	0.60	15.1	6.78	5.33	41.7	94.0	52.6	28.33	sl cloudy
9:20	0.85	15.1	6.77	5.29	36.0	93.0	19.9	28.36	clear
9:25	1.10	15.2	6.75	5.43	34.8	92.3	8.72	28.37	"
9.30	1.40	15.2	6.74	5.52	41.9	91.3	5.63	28.38	"
9.35	1.60	15.2	6.72	5.57	39.2	90.8	5.24	28.38	"
9.40		s	a	m	p	l	e		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	Pro Plus S/N 13J102028	3/21/17
Turbidimeter	HACH	2100 Q S/N 12080C019573	3/21/17
Water Level Meter	Solinst	Model 101 S/N 55563	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-19	VOCs	40 mL VOA	HCl	
"	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. HMW-1	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 3/20/17
SAMPLE No. HMW-1	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry /EarthCon	
SAMPLE TIME: 16.15	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Mostly Sunny, 70's	

Well Condition Inspection (circle one)

cover:	(locked)	not locked	
number:	(legible)	not legible	
outer casing:	(good)	fair	poor
inner casing:	(good)	fair	poor
well photographed:	(yes)	no	

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- (potable water rinse)
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	20.30	Measuring Point Elevation (feet):	
Depth of Well (feet):	62.32	Groundwater Surface Elevation:	
Water Column (feet):	42.02	LNAPL present:	thickness:
Casing Volume (gallons/liters):	6.85	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	20.55	Remarks:	
Actual Purge Volume (gallons/liters):	1.95		
Pump Intake Depth (feet):	~ 57	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
15[illegible]8.40	0								PURGE START
15[illegible]8.45	0.45	15.8	6.19	6.60	105.2	72.9	10.2	21.08	clear
15:50	0.70	15.8	6.17	6.91	42.7	72.6	10.7	21.14	"
15:55	1.0	15.8	6.[illegible]15	6.79	88.4	72.6	4.87	21.18	"
16:00	1.30	15.7	6.17	7.06	85.3	72.5	6.06	21.18	"
16:05	1.65	15.8	6.16	6.96	81.1	73.0	4.53	21.19	"
16.15		>	a	m	p	l e			

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	YSI	Professional Plus S/N 13J102028	3/20/2017
Turbidimeter	HACH	2100 Q S/N	3/20/2017
Water Level Meter	Heron	Dipper T S/N 003774	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
HMW-1	VOCs	40 mL VOA	HCl	
"	1, 4 Dioxane	40 mL VOA	HCl	

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Surface Water Sample Form

Site : SECHEM, INC.

Sample Date and Time: 3/23/17 1605

Sample Location: SW-1

Weather: Sunny, 50's

Sample ID: SW-1

Water Body Sampled: Intermittent Tributary to Mill Creek

Sample Collection Method: _____

Depth @ Sample Site: _____

Depth of Sample: _____

Rate of flow: _____

Sample Appearance/Odor: _____

TEMP (°C): 14.09

pH: 6.33

Conductivity (µs/cm): 79

Dissolved Oxygen (mg/L): 7.74

ORP/EH (mv): 69.8

Turbidity (NTU): 7.49

Notes:

Instruments Calibrated (date): 3/23/17

Duplicate Sample Collection (Y/N): N

If Yes, Sample ID: _____

Analytical Methods:	VOCs by 8260, 1-4-Dioxane by 8260SIM

NOTES:

LOCATION SKETCH:

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Surface Water Sample Form

Site : SECHEM, INC.

Sample Date and Time: 3/23/17 1545

Sample Location: SW-2

Weather: Sunny, 50's

Sample ID: SW-2

Water Body Sampled: Intermittent Tributary to Mill Creek

Sample Collection Method: _____

Depth @ Sample Site: _____

Depth of Sample: _____

Rate of flow: _____

Sample Appearance/Odor: Clear, no odor.

TEMP (°C) 14.76

pH: 6.47

Conductivity (µs/cm): 109

Dissolved Oxygen (mg/L): 8.15

ORP/EH (mv): 86.1

Turbidity (NTU): 5.07

Notes:

Instruments Calibrated (date): 3/23/17

Duplicate Sample Collection (Y/N): N

If Yes, Sample ID: _____

Analytical Methods:	VOCs by 8260, 1-4-Dioxane by 8260SIM

NOTES:

LOCATION SKETCH:

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Surface Water Sample Form

Site : SECHEM, INC.

Sample Date and Time: 3/23/17 15:15

Sample Location: SW-3

Weather: Mostly Sunny, 50's

Sample ID: SW-3

Water Body Sampled: Intermittent Tributary to Mill Creek

Sample Collection Method: _____

Depth @ Sample Site: _____

Depth of Sample: _____

Rate of flow: _____

Sample Appearance/Odor: No odor, clear

TEMP (°C) 15.97

pH: 6.73

Conductivity (µs/cm): 113

Dissolved Oxygen (mg/L): 8.04

ORP/EH (mv): 90.2

Turbidity (NTU): 5.53

Notes:

Instruments Calibrated (date): 3/23/17

Duplicate Sample Collection (Y/N): N

If Yes, Sample ID: _____

Analytical Methods:	VOCs by 8260, 1-4-Dioxane by 8260SIM

NOTES:

LOCATION SKETCH:

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Surface Water Sample Form

Site : SECHEM, INC.

Sample Date and Time: 3/23/2017 14:50

Sample Location: SW-4

Weather: Mostly Sunny, 50's

Sample ID: SW-4

Water Body Sampled: Intermittent Tributary to Mill Creek

Sample Collection Method: _____

Depth @ Sample Site: _____

Depth of Sample: _____

Rate of flow: _____

Sample Appearance/Odor: No odor, slightly turbid

TEMP (°C) 16.88

pH: 7.04

Conductivity (µs/cm): 169

Dissolved Oxygen (mg/L): 8.75

ORP/EH (mv): 153.0

Turbidity (NTU): 12.3

Notes:

Instruments Calibrated (date): _____

Duplicate Sample Collection (Y/N): _____ If Yes, Sample ID: _____

Analytical Methods:	VOCs by 8260, 1-4-Dioxane by 8260SIM

NOTES:

LOCATION SKETCH:

September 2017

Sample Time: 16:10

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Groundwater Sampling Record

WELL No. SMW-1	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/14/17
SAMPLE No. SMW-1	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry /EarthCon	
SAMPLE TIME: 16:10	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Cloudy, 70's	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable ~~water and~~ phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	29.89	Measuring Point Elevation (feet):	
Depth of Well (feet):	44.28	Groundwater Surface Elevation:	
Water Column (feet):	14.39	LNAPL present:	thickness:
Casing Volume (gallons/liters):	2.35	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	7.04	Remarks:	
Actual Purge Volume (gallons/liters):	2.10		
Pump Intake Depth (feet):	~ 38'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast — Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
~~15:22~~	~~15:22~~	0							PURGE START
15:28	13:28	0.25	20.90	6.96	4.52	27.90	294.76	37.3	30.79	cloudy w/ brown sediment
15:32	13:32	0.50	20.22	6.94	4.30	30.10	285.30	26.3	30.94	"
15:40	13:40	0.80	20.13	6.91	4.22	30.80	274.70	16.3	31.02	brown sediment
15:45	13:45	1.25	20.08	6.87	4.03	30.40	264.40	11.2	31.02	clear
15:50	13:50	1.40	20.08	6.82	3.90	31.30	247.10	7.55	31.00	"
15:55	13:55	1.65	19.99	6.75	3.82	31.50	234.50	6.47	31.03	"
16:00	14:00	1.85	20.02	6.76	3.81	31.40	221.50	5.92	31.02	"
16:10	14:10		s a	m	p	l	e			

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	In Situ	Smart Troll MP S/N 449622	9/14/17
Turbidimeter	LaMotte	2020 We S/N 568-0111	9/14/17
Bladder Pump	QED	Micro Purge MP-50	
WL Meter	~~Dipper T~~ Heron	Dipper T S/N 28843	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
SMW-1	VOCs	40 mL VOA	HCl	
SMW-1	1, 4 Dioxane	40 mL VOA	HCl	

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Groundwater Sampling Record

WELL No. SMW-2	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/18/17
SAMPLE No. SMW-2	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry /EarthCon	
SAMPLE TIME: 12:30	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Sunny, 70s	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: good (fair) poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	28.06	Measuring Point Elevation (feet):	
Depth of Well (feet):	42.22	Groundwater Surface Elevation:	
Water Column (feet):	14.16	LNAPL present:	thickness:
Casing Volume (gallons/liters):	2.31	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	6.92	Remarks:	
Actual Purge Volume (gallons/liters):			
Pump Intake Depth (feet):	~37'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
11:39	0								PURGE START
11:42	0.35	19.24	6.52	0.57	51.1	93.6	23.9	28.65	sl cloudy
11:47	0.50	18.92	6.54	0.46	50.2	102.1	20.3	28.72	"
11:52	0.65	19.01	6.55	0.41	48.8	105.3	15.4	28.73	clear
11:57	0.90	18.97	6.56	0.39	47.9	109.2	14.4	28.76	"
12:02	1.0	18.94	6.58	0.35	46.8	113.9	11.6	28.80	"
12:07	1.20	19.15	6.58	0.34	46.8	118.4	8.69	28.78	"
12:17	1.46	19.19	6.58	0.32	46.1	130.1	7.44	28.80	"
12:30		S	a	m	p	l	e		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	In-Situ	SmartTroll MP S/N 449622	9/18/17
Turbidimeter	LaMotte	2020 we S/N 568-0111	9/18/17
Peri Pump	GeoTech	GeoPump	=
WL Meter	Heron	Dipper T S/N 28843	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
SMW-2	VOCs	40 mL VOA	HCl	
"	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. SMW-3	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/14/17
SAMPLE No. SMW-3	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henn, /EarthCon	
SAMPLE TIME: 17:45	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Partly Cloudy, 70's	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	32.82	Measuring Point Elevation (feet):	
Depth of Well (feet):	43.96	Groundwater Surface Elevation:	
Water Column (feet):	11.14	LNAPL present:	thickness:
Casing Volume (gallons/liters):	1.82	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	5.45	Remarks: light petro smell	
Actual Purge Volume (gallons/liters):			
Pump Intake Depth (feet):	~38'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast — Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1700	0								PURGE START
1705	0.10	21.69	6.29	2.64	-2.20	191.60	4.31	33.21	clear/lt petro smell
1710	0.50	20.08	6.41	1.37	-14.10	189.00	3.97	33.41	"
1715	0.70	20.13	6.43	1.04	-17.20	193.00	2.12	33.43	"
1725	1.0	19.98	6.45	0.86	-22.80	201.60	1.52	33.55	"
1730	1.15	19.91	6.47	0.74	-24.90	201.10	1.16	33.58	"
1735	1.40	19.94	6.46	0.66	-27.20	202.70	0.87	33.62	"
1745		s a	m	p	i	e			

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	In Situ	SmartTroll MP S/N 449622	9/14/17
Turbidimeter	LaMotte	2020 we S/N 568-011	9/14/17
Bladder Pump	QED	Micro Purge MP-50	—
WL Meter	Heron	Dipper T S/N 28843	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
SMW-3	VOCs	40 mL VOA	HCl	
"	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. SMW-4	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/13/17
SAMPLE No. SMW-4	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry / Joanna Wiggins	/EarthCon
SAMPLE TIME: 17.10	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Cloudy, 70's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
(air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	27.15	Measuring Point Elevation (feet):	
Depth of Well (feet):	40.52	Groundwater Surface Elevation:	
Water Column (feet):	13.37	LNAPL present:	thickness:
Casing Volume (gallons/liters):	2.17	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	6.54	Remarks:	
Actual Purge Volume (gallons/liters):	7.45		
Pump Intake Depth (feet):	~36 ft	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
16:30	0								PURGE START
16.35	0.50	21.39	5.16	7.76	29.10	48.60	2.20	27.72	clear
16.40	0.70	21.31	5.12	7.72	25.90	48.80	2.30	27.86	"
16.45	0.95	21.46	5.13	7.59	24.90	48.70	—	27.89	"
16.50	1.0	21.50	5.12	7.57	24.80	48.80	1.74	27.89	"
16.55	1.15	21.59	5.11	7.48	24.70	48.80	1.50	27.91	"
17.00	1.30	21.51	5.11	7.48	26.20	48.70	0.97	27.92	"
17.10		s	a	m	p	l	e		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	In Situ	Smart Troll MP S/N 449622	9/13/17
Turbidimeter	LaMotte	2020 we S/N 568-0111	9/13/17
Peri Pump	Geo Tech	Geo Pump	
WL Meter	Heron	Dipper T S/N 28843	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
SMW-4	VOCs	40 mL VOA	HCl	
"	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. SRW-1	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/14/17
SAMPLE No. SRW-1	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY S. Middleton /EarthCon	
SAMPLE TIME: 18:24	SITE Norcross, GA	FIELD CONDITIONS/WEATHER	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	~~30.15~~ 27.45	Measuring Point Elevation (feet):	
Depth of Well (feet):	~~42.24~~ 69.9	Groundwater Surface Elevation:	
Water Column (feet):	~~12.09~~ 42.45	LNAPL present: none	thickness:
Casing Volume (gallons/liters):	62.4	DNAPL present: none	thickness:
Calculated 3 Purge Volume (gallons/liters):	187.2	Remarks: ~~Replace~~ Put in a new well plug,	
Actual Purge Volume (gallons/liters):	1.8		
Pump Intake Depth (feet):	65	Ferrous Iron (mg/L):	

no screen interval was on our data sheet,

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast — Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
17:34	0								PURGE START
17:39	0.4	19.03	5.78	7.41	-2.1	54	5.60	27.69	clear
17:44	0.7	19.33	5.73	7.06	-0.3	54	3.56	27.80	clear
17:49	0.9	19.26	5.73	7.14	-0.3	55	2.14	27.88	clear
17:54	1.1	19.58	5.74	7.55	0.7	56	2.18	27.96	clear
17:59	1.2	19.76	5.75	7.11	1.3	55	2.30	27.97	clear
18:04	~~1.25~~ 1.3	19.34	5.73	8.11	2.5	56	2.17	28.00	clear
18:09	1.5	19.57	5.72	7.22	4.7	54	3.21	28.03	clear
18:14	1.7	19.75	5.73	7.30	5.1	56	1.25	28.04	clear
18:19	1.8	19.77	5.72	7.31	5.3	55	2.42	28.04	clear
18:24	5	A	M	P	L	E			

slower
slower
slower
slower

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
	VOCs	40 mL VOA	HCl	
	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. WMW 1	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/14/17
SAMPLE No. WMW 1	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Hemy /EarthCon	
SAMPLE TIME: 14 15	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Mostly Cloudy, 70's	

Well Condition Inspection (circle one)

cover:	(locked)	not locked	
number:	(legible)	not legible	
outer casing:	(good)	fair	poor
inner casing:	(good)	fair	poor
well photographed:	yes	no	

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- (potable water rinse)
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	31.64	Measuring Point Elevation (feet):	
Depth of Well (feet):	62.75	Groundwater Surface Elevation:	
Water Column (feet):	31.11	LNAPL present:	thickness:
Casing Volume (gallons/liters):	5.07	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	15.21	Remarks:	
Actual Purge Volume (gallons/liters):	3.0		
Pump Intake Depth (feet):	~57	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: (very slow) slow moderate fast — Bailed dry: yes (no)

Exchange Cycles	TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
	12:00	0								PURGE START
	12:08	~~2447~~ 0.25	21.47	6.54	1.31	43.40	90.70	44.1	33.15	~~clear~~ sl cloudy
	12:13	0.60	21.10	6.60	0.90	32.10	91.00	58.6	34.02	sl cloudy
	12:18	0.80	21.29	6.63	0.81	27.40	90.80	46.2	35.07	"
	12:25	1.0	21.74	6.64	0.73	22.30	91.00	27.8	35.98	"
	12:30	1.15	21.76	6.66	0.67	18.40	90.90	26.7	36.83	"
	12:35	1.30	21.66	6.67	0.62	15.10	91.20	30.8	37.50	"
10	12:40	1.50	21.63	6.68	0.59	11.50	91.10	30.6	38.11	"
	12:45	1.55	—	—	—	—	—	57.8	38.62	"
	12:50	1.65	22.23	6.68	0.59	5.9	90.60	29.3	39.10	"
10	12:55	1.75	21.91	6.69	0.58	3.4	90.80	51.4	39.56	"
	13:00	1.85	21.91	6.70	0.56	0.90	91.10	32.9	39.96	"
	13:05	1.95	22.18	6.70	0.57	-1.40	91.10	32.4	40.33	"
	13:10	2.05	22.22	6.70	0.56	-3.60	91.00	33.2	40.60	"
	13:15	2.10	22.21	6.71	0.55	-5.60	91.00	33.0	40.90	"
	13:20	2.25	22.09	6.72	0.54	-7.50	91.00	38.5	41.21	"
	13:25	2.35	22.09	6.71	0.55	-8.9	91.30	56.3	41.52	"
	13:30	2.45	22.04	6.72	0.54	-8.9	91.50	37.4	41.82	"
	13:35	2.50	22.14	6.73	0.52	-13.0	91.50	34.2	42.14	"
	13:40	2.55	22.18	6.73	0.51	-14.2	91.50	33.3	42.44	"
5	13:50	2.75	22.26	6.75	0.51	-17.5	92.30	65.0	42.82	"
	13:55	2.80	23.03	6.72	0.54	-18.6	92.30	40.0	42.89	"
	14:00	2.90	22.76	6.73	0.56	-19.7	93.20	48.9	42.98	"
	14:15		↓	↓	↓	↓	↓	↓		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi Parameter	In Situ	Smart Troll MP S/N 449622	9/14/17
Turbidimeter	LaMotte	2020 we S/N 568-0111	9/14/17
Bladder Pump	QED	Micro Purge MP 50	—
WL Meter	Heron	Dipper T S/N 28843	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
WMW-1	VOCs	40 mL VOA	HCl	
"	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-1	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/14/17
SAMPLE No. YMW-1	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY J. Tadlock /EarthCon	
SAMPLE TIME: 10:18	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Cloudy	

Well Condition Inspection (circle one)

cover:	(locked)	not locked	
number:	(legible)	not legible	
outer casing:	good	(fair)	poor
inner casing:	good	(fair)	poor
well photographed:	(yes)	no	

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	26.07	Measuring Point Elevation (feet):	
Depth of Well (feet):	40.70	Groundwater Surface Elevation:	
Water Column (feet):	12.63	LNAPL present: none	thickness:
Casing Volume (gallons/liters):	2.05	DNAPL present: none	thickness:
Calculated 3 Purge Volume (gallons/liters):	6.18	Remarks: Sampled via "soda straw method"	
Actual Purge Volume (gallons/liters):	2.2 gal		
Pump Intake Depth (feet):	54.0	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: (very slow) slow moderate fast Bailed dry: yes no

	TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY mS/cm (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS	
9:23	9:28	0								PURGE START	cond µS/cm
1	9:28	0.2	18.61	5.33	2.65	82.5	0.066	32.6	28.65	reddish	0.000066
2	9:33	0.4	18.38	5.30	1.57	65.6	0.063	27.5	28.70	reddish	0.000063
3	9:38	0.6	18.42	5.40	1.11	48.1	0.067	26.1	28.70	clear	0.000067
4	9:43	0.8	18.45	5.49	1.13	33.5	0.068	20.6	28.72	clear	0.000068
5	9:48	1.1	18.36	5.53	1.00	21.1	0.071	15.5	28.76	clear	0.000071
6	9:53	1.3	18.39	5.59	0.98	10.6	0.071	14.3	28.77	clear	0.000073
7	9:58	1.6	18.52	5.64	1.37	2.2	0.073	14.3	28.74	clear	0.000073
8	10:03	1.8	18.53	5.69	1.62	-2.7	0.074	9.18	28.74	clear	0.000074
9	10:08	2.0	18.51	5.69	1.46	-3.0	0.074	8.94	28.73	clear	0.000074
10	10:13	2.2	18.59	5.69	1.51	-3.2	0.076	8.08	28.73	clear	0.000076
11	10:18	5	4	m		p	L	E			
12											

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
	VOCs	40 mL VOA	HCl	
	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-2	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/18/17
SAMPLE No. YMW-2	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY J. Maddox	/EarthCon
SAMPLE TIME: 11:55	SITE Norcross, GA	FIELD CONDITIONS/WEATHER sunny, clear, 80s	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: good (fair) poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

DTW 9/13 16.20

Depth to Water (feet):	16.19 ~~22.33~~ 47.70 5m 22.33	Measuring Point Elevation (feet):	
Depth of Well (feet):		Groundwater Surface Elevation:	
Water Column (feet):	6.14	LNAPL present: none	thickness:
Casing Volume (gallons/liters):	1.00	DNAPL present: none	thickness:
Calculated 3 Purge Volume (gallons/liters):	3.00	Remarks:	
Actual Purge Volume (gallons/liters):	1.55		
Pump Intake Depth (feet):	~~NA~~ 18	Ferrous Iron (mg/L):	

well screen 9-19 ft

Well Evacuation
Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
~~10:53~~ 11:01	0								PURGE START
11:06	0.1	18.84	5.01	7.82	1.7	70	19.8	16.55	clear, no odor
11:11	0.4	18.88	4.99	8.18	-4.3	70	15.6	16.72	"
11:16	0.5	19.02	5.02	8.83	-10.1	71	9.62	16.80	"
11:21	0.7	18.95	5.06	8.77	-19.2	75	6.72	16.86	"
11:26	0.8	19.02	5.08	8.73	-23.5	74	4.92	16.88	"
11:31	0.95	18.90	5.10	9.11	-29.2	74	3.63	16.93	"
11:36	1.15	18.76	5.12	8.54	-33.7	75	3.38	16.97	"
11:41	1.25	18.90	5.12	8.36	-36.2	76	2.15	17.00	"
11:46	1.4	~~18~~ 18.93	5.13	8.49	-38.5	75	3.06	17.01	"
11:51	1.55	18.94	5.14	8.52	-36.9	76	2.04	17.01	"
11:55	5	A	M	P	L	E			

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
	VOCs	40 mL VOA	HCl	
YMW-2	1, 4 Dioxane	40 mL VOA	HCl	
YMW-2				

EARTHCON®

9/14/17

Groundwater Sampling Record

WELL No. YMW-4	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/14/17
SAMPLE No. YMW-4	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry /EarthCon	
SAMPLE TIME: 10:45	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Cloudy	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	30.90	Measuring Point Elevation (feet):	
Depth of Well (feet):	38.15	Groundwater Surface Elevation:	
Water Column (feet):	5.25	LNAPL present:	thickness:
Casing Volume (gallons/liters):	0.85	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	2.57	Remarks:	
Actual Purge Volume (gallons/liters):	1.80		
Pump Intake Depth (feet):	~36	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow (moderate) fast Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
9.50	0								PURGE START
9.55	0.25	18.63	5.87	4.76	63.20	61.00	3.26	33.30	clear
10:00	0.50	18.28	5.84	4.52	55.10	61.10	3.34	33.40	"
10:05	0.70	18.19	5.82	4.31	52.40	63.50	2.92	33.56	"
10.10	0.85	18.17	5.80	4.01	49.60	66.20	11.1	33.65	"
10:15	1.0	18.35	5.83	3.89	47.90	68.50	7.65	33.68	"
10:20	1.15	18.52	5.88	4.40	53.10	71.60	11.0	33.65	"
10.25	1.25	19.01	5.83	3.83	47.20	73.10	8.43	33.61	"
10:30	1.40	18.58	5.86	3.94	46.50	72.30	8.21	33.64	"
10.35	1.50	18.57	5.87	3.82	44.20	73.00	6.46	33.60	"
10:45		s	a	m	p	l	e		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	InSitu	SmartTroll MP S/N 449622	9/14/17
Turbidimeter	LaMotte	2020 we S/N 568-0111	9/14/17
Bladder Pump	QED	Micro Purge MP-50	=
WL Meter	Heron	Dipper T S/N 28843	=

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-4	VOCs	40 mL VOA	HCl	
" 4	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. MW-5	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/14/17
SAMPLE No. MW-5	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY S. Mahan /EarthCon	
SAMPLE TIME: 13:31	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Partly cloudy ≈ 60°	

Well Condition Inspection (circle one)

cover:	locked	not locked
number:	legible	not legible
outer casing:	good	fair poor
inner casing:	good	fair poor
well photographed:	yes	no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	15.77	Measuring Point Elevation (feet):	
Depth of Well (feet):	36.34	Groundwater Surface Elevation:	
Water Column (feet):	20.57	LNAPL present: none	thickness:
Casing Volume (gallons/liters):	3.35	DNAPL present: none	thickness:
Calculated 3 Purge Volume (gallons/liters):	10.05	Remarks: Dup-1 taken here @ 13:31	
Actual Purge Volume (gallons/liters):	2.1	I put a new well plug on well top.	
Pump Intake Depth (feet):	29	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
12:41	0								PURGE START
12:46	0.3	17.06	5.95	2.50	-36.9	247	20.5	15.80	clear/slcloudy
12:51	0.6	17.23	6.01	2.79	-43.1	249	19.7	15.82	clear
12:56	0.90	17.21	6.04	3.20	-49.5	251	12.6	15.90	clear
13:01	1.2	17.14	6.05	3.42	-52.9	251	8.14	16.20	clear
13:06	1.4	17.51	6.07	3.78	-56.4	255	11.6	16.12	clear
13:11	1.55	17.47	6.08	3.76	-58.8	259	14.0	16.12	clear
13:16	1.75	17.51	6.08	3.80	-61.9	253	3.41	16.12	clear
13:21	1.9	17.53	6.08	3.78	-62.7	255	5.94	16.12	clear
13:26	2.1	17.55	6.08	3.80	-62.5	256	6.57	16.12	clear
13:31	S	A	M	P	L	E			

slow down

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
	VOCs	40 mL VOA	HCl	
	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. VMW-6	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/15/17
SAMPLE No. VMW-6	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry, /EarthCon	
SAMPLE TIME: 9:45	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Sunny, 60's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

(- potable water and phosphate-free soap)
(- potable water rinse)
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
(- air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	18.49	Measuring Point Elevation (feet):	
Depth of Well (feet):	27.97	Groundwater Surface Elevation:	
Water Column (feet):	9.48	LNAPL present:	thickness:
Casing Volume (gallons/liters):	1.54	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	4.64	Remarks:	
Actual Purge Volume (gallons/liters):	2.05		
Pump Intake Depth (feet):	~23'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
9:01	0								PURGE START
9:06	0.30	17.01	7.53	4.64	86.60	66.8	0.25	18.73	clear
9:11	0.60	16.80	7.32	4.62	77.70	66.6	0.39	18.73	"
9:16	0.90	16.70	7.21	4.60	73.70	66.6	0.50	18.74	"
9:21	1.20	16.69	7.17	4.61	71.40	66.6	0.42	18.75	"
9:26	1.50	16.67	7.13	4.27	69.80	66.7	0.46	18.75	"
9:31	1.75	16.67	7.10	3.99	68.70	66.8	0.29	18.75	"
9:36	2.0	16.71	7.09	3.94	67.80	66.9	0.23	18.75	"
9:45		s	a	m	p	l	e		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	In Situ	SmartTroll MP SIN 449622	9/15/17
Turbidimeter	LaMotte	2020 we SIN 568-0111	9/15/17
Peri Pump	Geo Tech	Geo Pump	—
WL Meter	Heron	Dipper T SIN 25843	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
VMW-6	VOCs	40 mL VOA	HCl	
"	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-7	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/15/17
SAMPLE No. YMW-7	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry /EarthCon	
SAMPLE TIME: 12:25	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Sunny, 70's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

(potable water and phosphate-free soap)
(potable water rinse)
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
(air dry)

Casing Diameter:

(circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	5.67	Measuring Point Elevation (feet):	
Depth of Well (feet):	22.44	Groundwater Surface Elevation:	
Water Column (feet):	16.77	LNAPL present:	thickness:
Casing Volume (gallons/liters):	2.73	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	8.20	Remarks:	
Actual Purge Volume (gallons/liters):			
Pump Intake Depth (feet):	~19	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
11:46	0								PURGE START
11:51	0.45	19.05	7.16	4.09	71.3	88.4	1.48	5.78	clear
11:56	0.65	18.81	7.13	4.03	67.4	87.6	1.23	5.77	"
12:01	0.90	18.77	7.12	4.00	66.0	87.0	0.95	5.78	"
12:06	1.15	18.75	7.11	4.02	65.8	86.5	1.00	5.78	"
12:11	1.40	18.70	7.11	3.99	66.0	86.0	0.82	5.79	"
12:16	1.65	18.66	7.11	4.00	66.3	85.9	0.68	5.78	"
12:25		S	a	m	p	l	e		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	In-Situ	SmartTroll PHP S/N 419622	9/15/17
Turbidimeter	LaMotte	2020 we S/N 568-0111	9/15/17
Peri Pump	GeoTech	Geo Pump	—
WL Meter	Heron	Dipper T S/N 28843	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-7	VOCs	40 mL VOA	HCl	
"	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-8	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/18/17
SAMPLE No. YMW-8	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry /EarthCon	
SAMPLE TIME: 11.00	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Sunny, 70's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

(potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
(air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 20.63
Depth of Well (feet): 32.72
Water Column (feet): 12.09
Casing Volume (gallons/liters): 1.97
Calculated 3 Purge Volume (gallons/liters): 5.91
Actual Purge Volume (gallons/liters): 1.50
Pump Intake Depth (feet): ~27'

Measuring Point Elevation (feet): ____
Groundwater Surface Elevation: ____
LNAPL present: ____ thickness: ____
DNAPL present: ____ thickness: ____
Remarks: ____
Ferrous Iron (mg/L): ____

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
10:20	0								PURGE START
10:25	0.30	17.86	6.69	6.13	65.6	52.1	~~20.83~~ 1.76	20.83	clear
10:30	0.55	17.66	6.58	6.17	63.4	52.5	2.21	20.88	"
10:35	0.75	17.73	6.51	6.08	62.1	52.0	2.25	20.86	"
10:40	1.0	17.77	6.46	6.07	62.6	51.8	2.04	20.86	"
10:45	1.25	17.77	6.43	6.01	62.8	51.7	2.02	20.87	"
10:50	1.45	17.77	6.45	6.00	63.4	51.6	2.53	20.86	"
11:00		s	a	m	p	l	e		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	In-Situ	SmartTroll MP. S/N 449622	9/18/17
Turbidimeter	LaMotte	2020 we S/N 568-0111	9/18/17
Peri Pump	Geo Tech	Geo Pump	"
WL Meter	Heron	Dipper T S/N 28843	"

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-8	VOCs	40 mL VOA	HCl	
YMW-8	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-9	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/15/17
SAMPLE No. YMW-9	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY J. Madden	/EarthCon
SAMPLE TIME: 10:25	SITE Norcross, GA	FIELD CONDITIONS/WEATHER	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

screen interval 3.5-23.5

Depth to Water (feet):	7.89 (from 9/14)	Measuring Point Elevation (feet):	
Depth of Well (feet):	24.77	Groundwater Surface Elevation:	
Water Column (feet):	16.88	LNAPL present: none	thickness:
Casing Volume (gallons/liters):	2.75	DNAPL present: none	thickness:
Calculated 3 Purge Volume (gallons/liters):	8.25	Remarks:	
Actual Purge Volume (gallons/liters):	2.15		
Pump Intake Depth (feet):	18.5	Ferrous Iron (mg/L):	

Well Evacuation

Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
9:20	0							8.71 5m	PURGE START
9:25	0.2	17.71	4.91	3.42	82.1	101	10.46	10.40	clear
9:30	0.4	17.77	4.77	3.64	85.7	106	1.25	8.78	clear
9:35	0.6	17.72	4.79	3.95	74.0	104	2.45	8.82	clear
9:40	0.9	17.82	4.80	4.11	68.8	104	2.40	8.79	clear
9:45	1.1	17.98	4.83	4.73	60.6	105	2.73	8.73	clear
9:50	1.23	18.03	4.87	5.33	52.7	105	3.16	8.64	clear
9:55	1.45	18.22	4.89	5.42	48.3	106	2.37	8.53	clear
10:00	1.55	18.26	4.90	6.26	42.9	105	1.49	8.46	clear
10:05	1.65	18.28	4.92	5.99	39.4	106	2.46	8.51	clear
10:10	1.8	18.25	4.92	6.19	36.6	104	1.59	8.51	clear
10:15	2.0	18.27	4.92	6.21	36.3	105	1.81	8.53	clear
10:20	2.15	18.23	4.92	6.25	35.9	105	2.39	8.53	clear
10:25	5	A	M	P	L	E			

round sample hrs time to nearest five minutes

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
	VOCs	40 mL VOA	HCl	
	1, 4 Dioxane	40 mL VOA	HCl	

+ DUP-2

EARTHCON®

Groundwater Sampling Record

WELL No. MW-10	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/15/17
SAMPLE No. MW-10	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY S. Madden /EarthCon	
SAMPLE TIME: 11:50	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Sunny, warm	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 6.74 (9/15)
Depth of Well (feet): 26.41
Water Column (feet): 19.67
Casing Volume (gallons/liters): 3.2
Calculated 3 Purge Volume (gallons/liters): 9.6
Actual Purge Volume (gallons/liters): 2.0
Pump Intake Depth (feet): 19

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: none thickness:
DNAPL present: none thickness:
Remarks:
Ferrous Iron (mg/L):

Well screen 14-24 ft

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
11:04	0								PURGE START
11:09	0.7	17.63	5.57	3.37	9.3	132	12.9	6.90	clear
11:15	0.7	17.60	5.63	3.49	0.8	147	5.75	6.99	clear
11:20	0.95	17.79	5.71	3.48	-5.3	165	4.48	6.94	clear
11:25	1.1	17.75	5.75	3.77	-11.1	169	6.76	6.94	clear
11:30	1.35	17.75	5.78	3.72	-17.1	168	2.07	6.94	clear
11:35	1.6	17.61	5.79	3.72	-20.5	169	1.60	6.94	clear
11:40	1.8	17.59	5.79	3.75	-21.4	170	2.05	6.94	clear
11:45	2.0	17.60	5.78	3.74	-21.7	171	1.29	6.94	clear
11:50	S	A	M	P	L	E			

slower
slower

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
	VOCs	40 mL VOA	HCl	
	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. PMW-11	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/15/17
SAMPLE No. PMW-11	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry /EarthCon	
SAMPLE TIME: 10:55	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Sunny, 70s	

Well Condition Inspection (circle one)

cover:	(locked)	not locked	
number:	(legible)	not legible	
outer casing:	(good)	fair	poor
inner casing:	(good)	fair	poor
well photographed:	yes	(no)	

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- (potable water rinse)
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	5.18	Measuring Point Elevation (feet):	
Depth of Well (feet):	26.15	Groundwater Surface Elevation:	
Water Column (feet):	20.97	LNAPL present:	thickness:
Casing Volume (gallons/liters):	3.41	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	10.25	Remarks:	
Actual Purge Volume (gallons/liters):	1.65		
Pump Intake Depth (feet):	~21'	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
10:17	0								PURGE START
10:22	0.50	17.95	7.14	3.75	71.9	94.3	2.90	6.29	clear
10:27	0.75	17.88	7.13	3.76	67.9	93.8	3.27	6.48	"
10:32	0.95	17.95	7.14	3.75	65.7	93.3	3.57	6.40	"
10:37	1.20	18.02	7.14	3.74	65.2	92.6	3.20	6.33	"
10:42	1.45	18.01	7.13	3.72	65.0	92.8	4.37	6.32	"
10:47	1.~~70~~ 65	17.99	7.13	3.70	65.2	92.5	2.24	6.34	"
10:55		s	a	m	p	l	e		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	In-Situ	SmartTroll MP S/N 449622	9/15/17
Turbidimeter	LaMotte	2020 we S/N 568-0111	9/15/17
Peri Pump	GeoTech	Geo Pump	—
WL Meter	Heron	Dipper T S/N 28843	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
PMW-11	VOCs	40 mL VOA	HCl	
"	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. Ymw-13	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/14/17
SAMPLE No. Ymw-13	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY S. Madden /EarthCon	
SAMPLE TIME: 16:21	SITE Norcross, GA	FIELD CONDITIONS/WEATHER partly cloudy, 80s	

Well Condition-Inspection (circle one)

cover:	locked	not locked	
number:	legible	not legible	
outer casing:	good	fair	poor
inner casing:	good	fair	poor
well photographed:	yes	no	

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

well screen 19-29

Depth to Water (feet):	22.77	Measuring Point Elevation (feet):	
Depth of Well (feet):	31.27	Groundwater Surface Elevation:	
Water Column (feet):	8.98	LNAPL present: none	thickness:
Casing Volume (gallons/liters):	1.5	DNAPL present: none	thickness:
Calculated 3 Purge Volume (gallons/liters):	4.5	Remarks: no odor	
Actual Purge Volume (gallons/liters):	2.0		
Pump Intake Depth (feet):	≈25.0	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
15:26	0								PURGE START
15:31	0.3	17.98	5.05	3.86	-27.7	66	2.96	23.42	clear
15:36	0.6	18:14	4.99	4.50	-31.3	66	3.90	23.47	clear
15:41	0.75	18:18	4.98	4.64	-34.9	65	2.83	23.48	clear
15:46	0.90	18:20	4.94	2.36	-36.2	65	3.62	23.48	clear
15:51	1.1	18:20	4.95	3.54	-39.3	65	4.19	23.48	clear
15:56	1.2	18:14	4.99	4.12	-42.4	65	3.76	23.48	clear
16:01	1.4	18.13	4.93	4.13	-44.6	66	3.75	23.48	clear
16:06	1.65	18.13	4.92	4.00	-46.1	65	3.84	23.48	clear
16:11	1.85	18:10	4.92	3.96	-46.8	64	2.35	23.49	clear
16:16	2.0	18:07	4.92	3.91	-47.0	65	3.06	23.49	clear
16:21	S	A	M	P	L	E			

slower

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
	VOCs	40 mL VOA	HCl	
	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-14	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/18/17
SAMPLE No. YMW-14	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY J. Madden /EarthCon	
SAMPLE TIME: 13:35	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Sunny, Clear, 80s	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

10.15

Depth to Water (feet): 10.15
Depth of Well (feet): 22.41
Water Column (feet): 12.26
Casing Volume (gallons/liters): 2.0 / 6.0
Calculated 3 Purge Volume (gallons/liters):
Actual Purge Volume (gallons/liters): 1.25
Pump Intake Depth (feet): 14 ft

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: none thickness:
DNAPL present: none thickness:
Remarks:
Ferrous Iron (mg/L):

Screen Interval 9-19 ft

Well Evacuation
Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
12:43	0								PURGE START
12:48	0.2	20.54	4.90	6.38	2.9	104	9.90	10.53	clear, no odor
12:53	0.3	20.42	4.92	6.23	-10.2	100	1.30	10.52	clear, no odor
12:58	0.45	20.58	4.94	5.98	-16.2	101	2.14	10.52	"
13:03	0.55	20.92	4.93	6.67	-16.0	101	3.57	10.52	"
13:08	0.65	21.11	4.93	7.18	-18.2	103	3.25	10.52	"
13:13	0.75	20.55	4.90	9.19	-26.0	100	2.91	10.61	"
13:18	0.95	21.31	4.92	8.84	-30.0	98	3.04	10.52	"
13:23	1.05	20.25	4.91	9.79	-34.9	98	2.69	10.60	"
13:28	1.15	20.44	4.93	9.51	-35.6	99	2.77	10.60	"
13:33	1.25	20.36	4.92	9.44	-36.1	99	1.63	10.60	"
13:35	5	A	M	P	L	E			

faster - - -
slower - - -

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-14	VOCs	40 mL VOA	HCl	
YMW-14	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-15	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/14/17
SAMPLE No. YMW-15	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY J. Maddox	/EarthCon
SAMPLE TIME: No Sample	SITE Norcross, GA	FIELD CONDITIONS/WEATHER	

Well Condition Inspection (circle one)

cover:	locked	not locked	
number:	legible	not legible	
outer casing:	good	fair	poor
inner casing:	good	fair	poor
well photographed:	yes	no	

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	17.06	Measuring Point Elevation (feet):	
Depth of Well (feet):	40.21	Groundwater Surface Elevation:	
Water Column (feet):	23.15	LNAPL present:	thickness:
Casing Volume (gallons/liters):	3.77	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	11.3	Remarks:	
Actual Purge Volume (gallons/liters):	none		
Pump Intake Depth (feet):	NA	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow (slow) moderate fast Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
	0								PURGE START

Well screen interval is 45-50 ft bgs.
Total depth is 40.21 ft bgs.
The well screen is covered by 4.79 ft of sediment in the well.
This well was not sampled because the sample would have come from the turbidity above the sediment covering the well screen.

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
	VOCs	40 mL VOA	HCl	
	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. MW-16	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/15/17
SAMPLE No. MW-16	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY S. McAllen /EarthCon	
SAMPLE TIME: 13:08	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Sunny / clear / 80s	

Well Condition Inspection (circle one)

cover:	(locked)	not locked	
number:	(legible)	not legible	
outer casing:	(good)	fair	poor
inner casing:	(good)	fair	poor
well photographed:	yes	(no)	

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

DTW 5.85

Depth to Water (feet):	~~5.86~~ 5.85 (9/15)	Measuring Point Elevation (feet):	
Depth of Well (feet):	37.91	Groundwater Surface Elevation:	
Water Column (feet):	31.06	LNAPL present:	thickness:
Casing Volume (gallons/liters):	5.06	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	15.19	Remarks:	~~MW-16 had a missing well plug~~ ~~so I put one in it.~~ SM
Actual Purge Volume (gallons/liters):	1.5		
Pump Intake Depth (feet):	31.5	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate fast Bailed dry: yes no

well screen 29-34

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
~~12:28~~	0								PURGE START
12:33	0.2	17.56	6.16	3.41	7.2	131	0.19	5.92	~~5.92~~ clear
12:38	0.5	17.49	6.14	3.86	3.9	131	0.30	5.91	clear
12:43	0.7	17.86	6.14	4.42	-1.0	131	1.18	5.91	clear
12:48	1.0	17.87	6.13	4.82	-5.4	131	0.12	5.91	clear
12:53	1.2	17.79	6.13	4.83	-9.6	131	0.29	5.91	clear
12:58	1.3	17.85	6.13	4.82	-10.4	132	0.14	5.91	clear
13:03	1.5	17.76	6.13	4.85	-10.9	131	0.18	5.91	clear
13:08		S	A	M	P	L	F		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
	VOCs	40 mL VOA	HCl	
	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-17	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road — DATE 9/18/17
SAMPLE No. YMW-17	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY J. Madden /EarthCon
SAMPLE TIME: 10:05	SITE Norcross, GA	FIELD CONDITIONS/WEATHER sunny, clear, ≈ 80

Well Condition Inspection (circle one)
- cover: (locked) not locked
- number: (legible) not legible
- outer casing: (good) fair poor
- inner casing: (good) fair poor
- well photographed: yes (no)

Equipment Cleaning Procedures
- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

9/13 DTW 12.77 ft

17.93 ft

- Depth to Water (feet): 13.93 (9/18)
- Depth of Well (feet): 58.34
- Water Column (feet): 45.41
- Casing Volume (gallons/liters): 7.40
- Calculated 3 Purge Volume (gallons/liters): 22.2
- Actual Purge Volume (gallons/liters): 1.2
- Pump Intake Depth (feet): 48 ft
- Measuring Point Elevation (feet):
- Groundwater Surface Elevation:
- LNAPL present: none thickness:
- DNAPL present: none thickness:
- Remarks:
- Ferrous Iron (mg/L):

Well Evacuation
Water level recovery is: very slow slow moderate fast — Bailed dry: yes no

well screen 43 - 53 ft

TD = 58.34

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/REMARKS
9:00	0							13.95	PURGE START
9:05	<0.1	17.51	5.56	8.10	95.2	44	0.78	13.95	clear, no ~~odor~~
9:10	0.25	17.58	5.27	7.82	95.2	40	0.78	14.08	"
9:15	0.45	17.62	5.23	7.70	89.8	40	1.43	14.17	"
9:20	0.55	17.66	5.24	7.93	83.2	40	1.06	14.26	
9:25	0.6	17.82	5.25	8.20	79.1	40	1.29	14.38	"
9:30	0.7	17.87	5.26	8.37	77.6	40	1.70	14.47	"
9:35	0.75	18.07	5.30	8.76	71.6	44	0.81	14.54	"
9:40	0.80	18.39	5.28	8.80	69.5	44	1.46	14.59	"
9:45 (9:45)	0.90	17.93	5.29	8.78	68.9	43	0.61	14.63	"
9:50	1.0	17.95	5.31	8.80	67.8	42	1.11	14.62	"
9:55	1.1	18.00	5.32	8.84	67.1	41	0.98	14.62	"
10:00	1.2	18.10	5.33	8.82	66.5	40	1.16	14.62	"
10:05	S	A	M	P	L	E			

odor
Pump -- slower
-- slower
-- slower
-- slower

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
556 MPS	YSI		
air pump	series 2 drive		

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
	VOCs	40 mL VOA	HCl	
	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-18	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/18/17
SAMPLE No. YMW-18	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry /EarthCon	
SAMPLE TIME: 9:50	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Sunny, 60's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	13.54	Measuring Point Elevation (feet):	
Depth of Well (feet):	51.95	Groundwater Surface Elevation:	
Water Column (feet):	38.41	LNAPL present:	thickness:
Casing Volume (gallons/liters):	6.26	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	18.78	Remarks:	
Actual Purge Volume (gallons/liters):	2.10		
Pump Intake Depth (feet):	~ 49	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: (very slow) slow moderate fast
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
8:30	0								PURGE START
8:35	0.25	17.59	7.33	3.57	95.0	103.4	2.89	14.82	Clear
8:40	0.50	17.23	7.19	3.47	86.7	102.1	1.86	15.89	"
8:45	0.65	17.10	7.11	3.68	82.3	99.7	1.57	17.00	"
8:50	0.75	17.25	7.08	3.98	79.9	99.9	1.77	17.59	"
8:55	0.95	17.32	7.06	4.11	78.4	99.1	1.45	18.18	"
9:00	1.05	17.29	7.05	4.38	77.0	98.9	1.48	18.72	"
9:05	1.20	17.28	7.02	4.49	77.7	98.4	1.27	19.10	"
9:10	1.40	17.28	7.04	4.65	76.1	98.4	1.50	19.52	"
9:15	1.50	17.28	7.03	4.72	75.4	98.1	1.52	19.94	"
9:20	1.60	17.32	7.02	4.72	76.5	98.2	2.12	20.30	"
9:25	1.70	17.48	7.01	4.59	75.5	97.9	1.21	20.60	"
9:30	1.80	17.50	7.01	4.51	75.1	97.8	1.32	20.80	"
9:35	1.95	17.54	7.00	4.55	74.8	97.6	1.25	21.03	"
9:40	2.05	17.56	7.00	4.51	74.5	97.5	1.30	21.28	
9:50		S	a	m	p	l	e		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	In-Situ	SmartTroll MP S/N 449622	9/18/17
Turbidimeter	LaMotte	2020 we S/N 568-0111	9/18/17
Peri Pump	GeoTech	GeoPump	—
WL Meter	Heron	Dipper T S/N 288143	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-18	VOCs	40 mL VOA	HCl	
"	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. YMW-19	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/13/17
SAMPLE No. YMW-19	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY S. MacArthur, J. Wiggins	/EarthCon
SAMPLE TIME: 16:15	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Partly Cloudy	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: (yes) no

Equipment Cleaning Procedures

(potable water and phosphate-free soap)
(potable water rinse)
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
(air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for (2" = 0.163) 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 27.20
Depth of Well (feet): 102.64
Water Column (feet): 75.44
Casing Volume (gallons/liters): 13.15 gal
Calculated 3 Purge Volume (gallons/liters): ~~39.5~~
Actual Purge Volume (gallons/liters): 3.5
Pump Intake Depth (feet): 97.5

Measuring Point Elevation (feet): ___
Groundwater Surface Elevation: ___
LNAPL present: no thickness: ___
DNAPL present: no thickness: ___
Remarks: ___
Ferrous Iron (mg/L): ___

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
14:55	0								PURGE START
15:00	0.3	19.61	6.08	6.17	67.4	0.084 mS/cm	40.4	27.42	Cloudy
15:05	0.5	19.43	6.27	6.01	57.7	82.0	30.5	27.46	Cloudy
15:10	0.75	19.20	6.33	6.32	49.8	82.0	22.5	27.45	SL cloudy
15:15	0.95	19.01	6.35	6.36	47.4	81.0	23.2	27.50	SL Cloudy
15:20	1.10	18.82	6.39	6.18	44.3	80	20.1	27.51	Clear
15:25	1.45	18.67	6.41	5.99	41.1	80	20.0	27.53	"
15:30	1.60	18.66	6.45	6.03	37.8	80	19.1	27.54	"
15:35	1.90	18.43	6.47	5.99	35.4	80	15.1	27.54	"
15:40	2.10	18.63	6.48	5.90	33.5	80	15.3	27.54	"
15:45	2.35	18.63	6.48	5.91	31.9	78	14.0	27.54	"
15:50	2.60	18.50	6.48	5.80	30.4	78	12.2	27.55	"
15:55	2.75	18.64	6.48	5.81	29.3	78	12.0	27.55	"
16:00	3.00	18.76	6.47	5.85	28.4	78	11.32	27.55	"
16:05	3.20	18.97	6.46	5.78	27.9	77	11.0	27.55	"
16:10	3.45	14.88	6.45	5.90	26.7	77	9.2	27.55	"
16:15		SAMPLE							

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
YMW-19	VOCs	40 mL VOA	HCl	
"	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®

Groundwater Sampling Record

WELL No. HMW-1	PROJECT # 02.20170071.00	LOCATION 4580 South Berkely Lake Road	DATE 9/13/17
SAMPLE No. HMW-1	PROJECT NAME Sechem Inc.	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 13:40	SITE Norcross, GA	FIELD CONDITIONS/WEATHER Mostly Cloudy, 70's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: good (fair) poor
well photographed: yes no

Equipment Cleaning Procedures

(- potable water and phosphate-free soap)
(- potable water rinse)
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
(- air dry)

Casing Diameter:
(circle one)
(2") 4"
6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	19.36	Measuring Point Elevation (feet):	
Depth of Well (feet):	62.80	Groundwater Surface Elevation:	
Water Column (feet):	43.44	LNAPL present:	thickness:
Casing Volume (gallons/liters):	7.08	DNAPL present:	thickness:
Calculated 3 Purge Volume (gallons/liters):	21.2	Remarks:	
Actual Purge Volume (gallons/liters):	1.45		
Pump Intake Depth (feet):	~ 57 ft	Ferrous Iron (mg/L):	

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
13.00	0								PURGE START
13.05	0.20	19.77	6.46	6.40	52.90	79.20	4.79	19.82	clear
13:10	0.45	19.19	6.49	6.49	39.90	75.20	2.86	19.91	"
13:15	0.65	18.89	6.49	6.51	36.40	74.40	2.31	19.94	"
13:20	0.80	18.84	6.50	6.52	33.00	74.40	1.82	19.92	"
13:25	1.05	18.84	6.50	6.51	31.40	74.80	1.98	19.91	"
13:30	1.20	18.75	6.49	6.49	30.70	74.40	2.28	19.92	"
13:40		s	a	m	p	l	e		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Multi-Parameter	In Situ	SmartTroll MP S/N 449622	9/13/17
Turbidimeter	LaMotte	2020 we S/N 568-0111	9/13/17
~~Geo~~ Per. Pump	Geo ~~Pump~~ Tech	Geo Pump	
WL Meter	Heron	Dipper T S/N 28843	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
HMW-1	VOCs	40 mL VOA	HCl	
\	1, 4 Dioxane	40 mL VOA	HCl	

EARTHCON®
Environmental Challenges
BUSINESS SOLUTIONS®

Surface Water Sample Form

Site : SECHEM, INC.

Sample Date and Time: 9/18/2017 14:45

Sample Location: SW-1

Weather: Partly Cloudy, 80's

Sample ID: SW-1

Water Body Sampled: Intermittent Tributary to Mill Creek

Sample Collection Method: Grab

Depth @ Sample Site: ~0.25 ft

Depth of Sample: Surface

Rate of flow: Very Low

Sample Appearance/Odor: Slightly Cloudy w/ algae

TEMP (°C): 22.11

pH: 6.71

Conductivity (µs/cm): 90.9

Dissolved Oxygen (mg/L): 4.92

ORP/EH (mv): 71.2

Turbidity (NTU): 24.4

Notes:

Instruments Calibrated (date): 9/18/2017

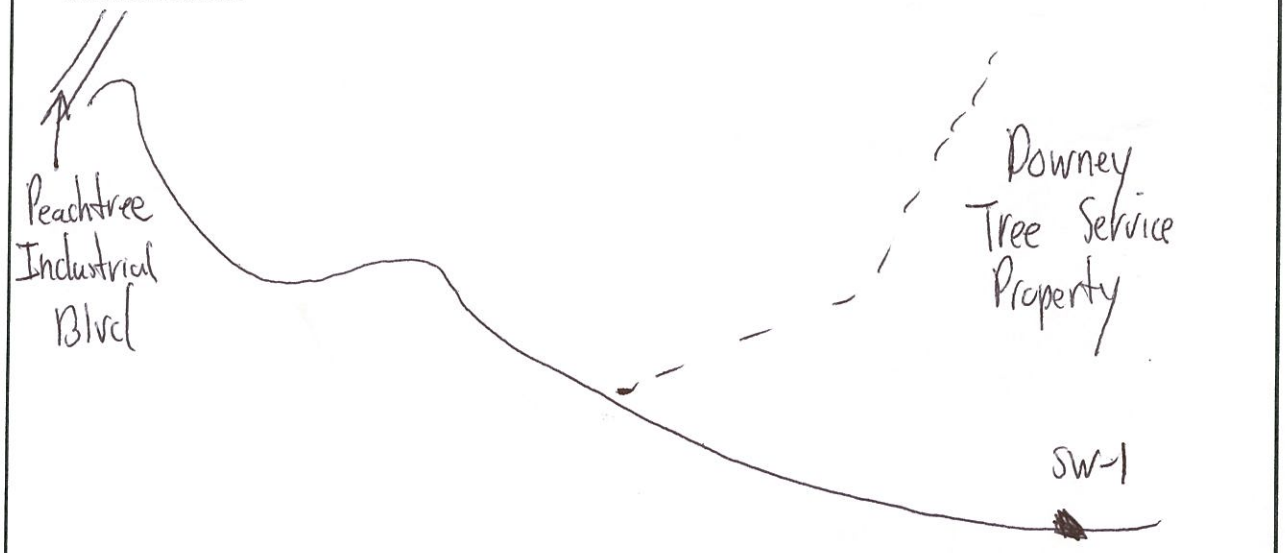
Duplicate Sample Collection (Y/N): N

If Yes, Sample ID:

Analytical Methods:	VOCs by 8260, 1-4-Dioxane by 8260SIM

NOTES:

LOCATION SKETCH:



EARTHCON®
Environmental Challenges
BUSINESS SOLUTIONS®

Surface Water Sample Form

Site : SECHEM, INC.

Sample Date and Time: 9/18/2017 14:25

Sample Location: SW-2

Weather: Sunny, 80's

Sample ID: SW-2

Water Body Sampled: Intermittent Tributary to Mill Creek

Sample Collection Method: Grab

Depth @ Sample Site: ~0.2 ft

Depth of Sample: surface

Rate of flow: very low flow

Sample Appearance/Odor: clear

TEMP (°C) 22.85

pH: 6.90

Conductivity (µs/cm): 114.9

Dissolved Oxygen (mg/L): 6.19

ORP/EH (mv): 75.5

Turbidity (NTU): 1.93

Notes:

Instruments Calibrated (date): 9/18/2017

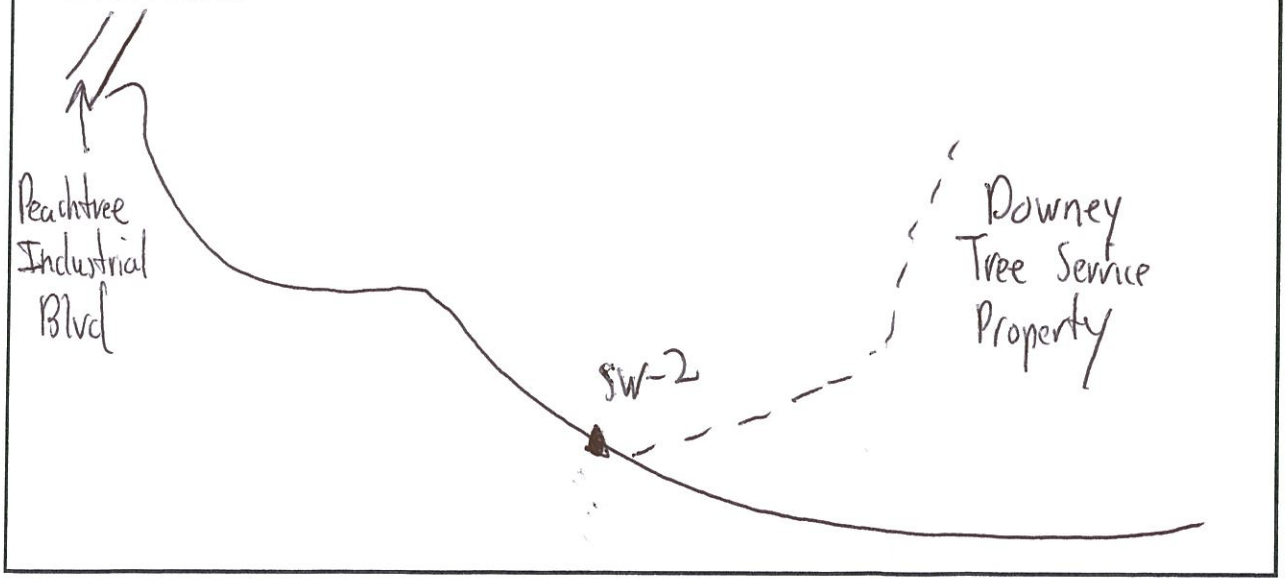
Duplicate Sample Collection (Y/N): N

If Yes, Sample ID:

Analytical Methods:	VOCs by 8260, 1-4-Dioxane by 8260SIM

NOTES:

LOCATION SKETCH:



EARTHCON®
Environmental Challenges
BUSINESS SOLUTIONS®

Surface Water Sample Form

Site : SECHEM, INC.

Sample Date and Time: 9/18/2017 13:50

Sample Location: SW-3

Weather: Sunny, 80's

Sample ID: SW-3

Water Body Sampled: Intermittent Tributary to Mill Creek

Sample Collection Method: Grab

Depth @ Sample Site: ~0.2 ft

Depth of Sample: Surface

Rate of flow: No flow, stagnant

Sample Appearance/Odor: Clear, Light film on surface

TEMP (°C) 21.99

pH: 6.94

Conductivity (µs/cm): 134.0

Dissolved Oxygen (mg/L): 6.30

ORP/EH (mv): 96.6

Turbidity (NTU): 5.10

Notes:

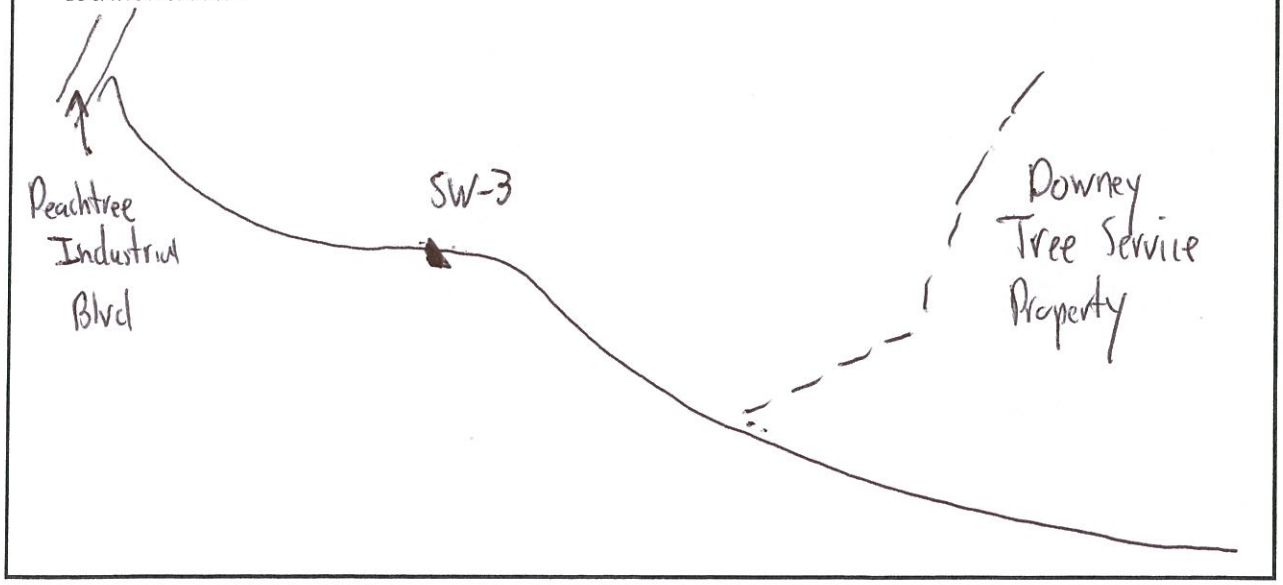
Instruments Calibrated (date): 9/18/2017

Duplicate Sample Collection (Y/N): N. If Yes, Sample ID:

Analytical Methods:	VOCs by 8260, 1-4-Dioxane by 8260SIM

NOTES:

LOCATION SKETCH:



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Environmental Challenges
BUSINESS SOLUTIONS®

Surface Water Sample Form

Site : SECHEM, INC.

Sample Date and Time: 9/18/2017 13:25

Sample Location: SW-4

Weather: Sunny, 80's

Sample ID: SW-4

Water Body Sampled: Intermittent Tributary to Mill Creek

Sample Collection Method: Grab

Depth @ Sample Site: ~0.50 ft

Depth of Sample: surface

Rate of flow: very light

Sample Appearance/Odor: clear, no odor (dead animal smell in vacinity)

TEMP (°C): 23.00

pH: 6.92

Conductivity (µs/cm): 195.8

Dissolved Oxygen (mg/L): 7.38

ORP/EH (mv): 109.1

Turbidity (NTU): 3.76

Notes:

Instruments Calibrated (date): 9/18/2017

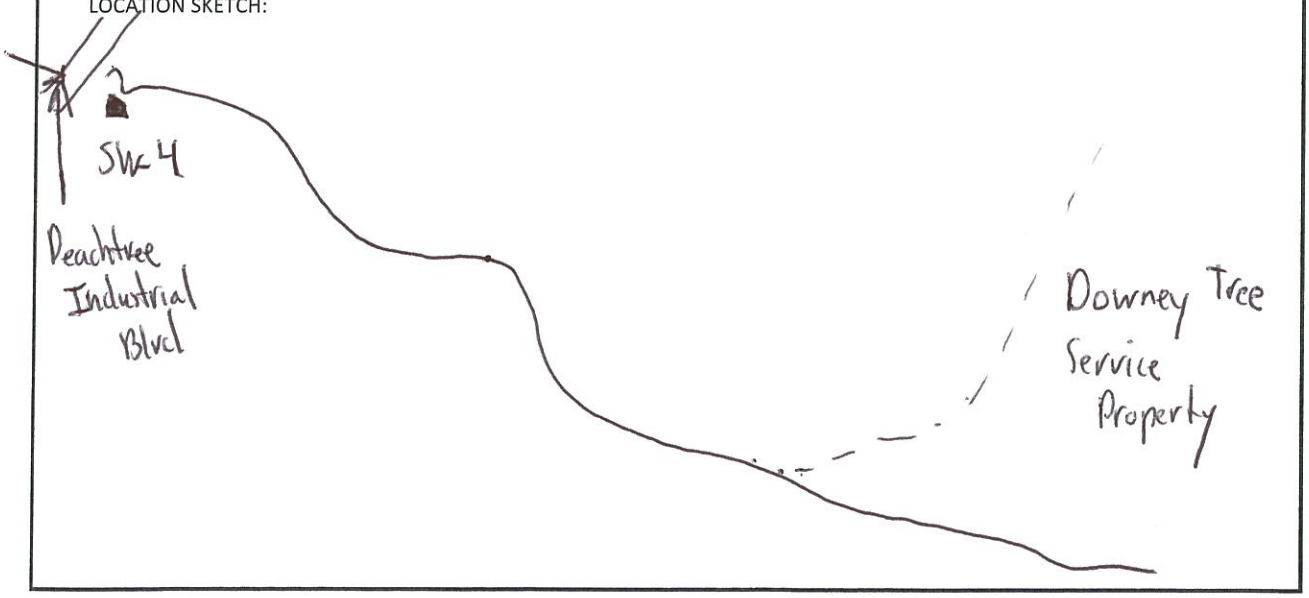
Duplicate Sample Collection (Y/N): N

If Yes, Sample ID:

Analytical Methods:	VOCs by 8260, 1-4-Dioxane by 8260SIM

NOTES:

LOCATION SKETCH:



APPENDIX C

Laboratory Analytical Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-136723-2
Client Project/Site: GCHI--SECHEM INC
Revision: 1

For:
Giant Cement
654 Judge Street
PO BOX 218
Harleyville, South Carolina 29448

Attn: Rachel Odzer

Authorized for release by:
2/22/2018 11:03:19 AM

Jerry Lanier, Project Manager I
(912)354-7858 e.3410
jerry.lanier@testamericainc.com

Table of Contents

Job ID: 680-136723-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Giant Cement

Project: GCHI--SECHEM INC

Report Number: 680-136723-2

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 the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 03/24/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.7º C and 2.4º C.

The final report was revised to remove Total 1,2-DCB from the report per client request.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples SMW-1 (680-136723-1), SMW-2 (680-136723-2), SMW-3 (680-136723-3), SMW-4 (680-136723-4), SRW-1 (680-136723-5), WMW-1 (680-136723-6), YMW-1 (680-136723-7), YMW-2 (680-136723-8), YMW-4 (680-136723-9), YMW-5 (680-136723-10), YMW-6 (680-136723-11), YMW-7 (680-136723-12), YMW-8 (680-136723-13), YMW-9 (680-136723-14), YMW-10 (680-136723-15), YMW-11 (680-136723-16), YMW-13 (680-136723-17), YMW-15 (680-136723-18), YMW-14 (680-136723-19), YMW-16 (680-136723-20), YMW-17 (680-136723-21), YMW-18 (680-136723-22), YMW-19 (680-136723-23), DUP-1 (680-136723-24), DUP-2 (680-136723-25), EQUIPMENT BLANK (680-136723-26), HMW-1 (680-136723-27), SW-1 (680-136723-28), SW-2 (680-136723-29), SW-3 (680-136723-30), SW-4 (680-136723-31) and 8260B Trip Blank (680-136723-32) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/31/2017, 04/03/2017 and 04/04/2017.

Samples SMW-2 (680-136723-2)[2X], SMW-3 (680-136723-3)[10X], SMW-4 (680-136723-4)[2X], SRW-1 (680-136723-5)[2X], SRW-1 (680-136723-5)[5X], YMW-1 (680-136723-7)[2X], YMW-5 (680-136723-10)[20X], YMW-5 (680-136723-10)[5X], YMW-6 (680-136723-11)[2X], YMW-7 (680-136723-12)[5X], YMW-10 (680-136723-15)[10X], YMW-13 (680-136723-17)[10X], YMW-15 (680-136723-18)[20X], YMW-16 (680-136723-20)[5X], YMW-19 (680-136723-23)[2X], DUP-1 (680-136723-24)[10X], DUP-2 (680-136723-25)[20X], SW-1 (680-136723-28) [2X] and SW-1 (680-136723-28)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-474430, 680-474577, and 680-474707.

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

Sample Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-136723-1	SMW-1	Water	03/21/17 14:35	03/24/17 07:00
680-136723-2	SMW-2	Water	03/21/17 13:45	03/24/17 07:00
680-136723-3	SMW-3	Water	03/21/17 16:50	03/24/17 07:00
680-136723-4	SMW-4	Water	03/21/17 16:55	03/24/17 07:00
680-136723-5	SRW-1	Water	03/21/17 15:05	03/24/17 07:00
680-136723-6	WMW-1	Water	03/21/17 12:25	03/24/17 07:00
680-136723-7	YMW-1	Water	03/21/17 11:35	03/24/17 07:00
680-136723-8	YMW-2	Water	03/22/17 16:55	03/24/17 07:00
680-136723-9	YMW-4	Water	03/21/17 10:25	03/24/17 07:00
680-136723-10	YMW-5	Water	03/23/17 12:40	03/24/17 07:00
680-136723-11	YMW-6	Water	03/22/17 10:25	03/24/17 07:00
680-136723-12	YMW-7	Water	03/22/17 11:35	03/24/17 07:00
680-136723-13	YMW-8	Water	03/23/17 12:45	03/24/17 07:00
680-136723-14	YMW-9	Water	03/22/17 17:20	03/24/17 07:00
680-136723-15	YMW-10	Water	03/22/17 15:45	03/24/17 07:00
680-136723-16	YMW-11	Water	03/22/17 10:25	03/24/17 07:00
680-136723-17	YMW-13	Water	03/22/17 12:00	03/24/17 07:00
680-136723-18	YMW-15	Water	03/22/17 14:50	03/24/17 07:00
680-136723-19	YMW-14	Water	03/22/17 15:55	03/24/17 07:00
680-136723-20	YMW-16	Water	03/22/17 14:25	03/24/17 07:00
680-136723-21	YMW-17	Water	03/23/17 10:35	03/24/17 07:00
680-136723-22	YMW-18	Water	03/23/17 11:30	03/24/17 07:00
680-136723-23	YMW-19	Water	03/21/17 09:40	03/24/17 07:00
680-136723-24	DUP-1	Water	03/22/17 03:00	03/24/17 07:00
680-136723-25	DUP-2	Water	03/23/17 00:00	03/24/17 07:00
680-136723-26	EQUIPMENT BLANK	Water	03/21/17 17:30	03/24/17 07:00
680-136723-27	HMW-1	Water	03/20/17 16:15	03/24/17 07:00
680-136723-28	SW-1	Water	03/23/17 16:05	03/24/17 07:00
680-136723-29	SW-2	Water	03/23/17 15:45	03/24/17 07:00
680-136723-30	SW-3	Water	03/23/17 15:15	03/24/17 07:00
680-136723-31	SW-4	Water	03/23/17 14:50	03/24/17 07:00
680-136723-32	8260B Trip Blank	Water	03/23/17 00:00	03/24/17 07:00

Method Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Definitions/Glossary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	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)

Detection Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: SMW-1 — Lab Sample ID: 680-136723-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.0		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	1.2		1.0		ug/L	1		8260B	Total/NA
1,2-Dichloroethane	1.4		1.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	4.9		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	4.8		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	9.1		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SMW-2 — Lab Sample ID: 680-136723-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloroethane	2.3		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethane	6.8		1.0		ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	43		1.0		ug/L	1		8260B	Total/NA
1,2-Dichloroethane	39		1.0		ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	15		1.0		ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	56		1.0		ug/L	1		8260B	Total/NA
Benzene	2.6		1.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	36		1.0		ug/L	1		8260B	Total/NA
Ethylbenzene	52		1.0		ug/L	1		8260B	Total/NA
Isopropylbenzene	2.6		1.0		ug/L	1		8260B	Total/NA
Naphthalene	16		5.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	4.8		1.0		ug/L	1		8260B	Total/NA
Toluene	4.2		1.0		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	9.3		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	3.2		1.0		ug/L	1		8260B	Total/NA
Vinyl chloride	25		1.0		ug/L	1		8260B	Total/NA
Xylenes, Total	69		1.0		ug/L	1		8260B	Total/NA
Chlorobenzene - DL	230		2.0		ug/L	2		8260B	Total/NA

Client Sample ID: SMW-3 — Lab Sample ID: 680-136723-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloroethane	16		10		ug/L	10		8260B	Total/NA
1,1-Dichloroethane	51		10		ug/L	10		8260B	Total/NA
1,1-Dichloroethene	22		10		ug/L	10		8260B	Total/NA
1,2-Dichlorobenzene	1100		10		ug/L	10		8260B	Total/NA
1,2-Dichloroethane	300		10		ug/L	10		8260B	Total/NA
1,3-Dichlorobenzene	220		10		ug/L	10		8260B	Total/NA
1,4-Dichlorobenzene	140		10		ug/L	10		8260B	Total/NA
2-Butanone	910		100		ug/L	10		8260B	Total/NA
4-Methyl-2-pentanone	4900		100		ug/L	10		8260B	Total/NA
Acetone	4300		100		ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene	170		10		ug/L	10		8260B	Total/NA
Naphthalene	69		50		ug/L	10		8260B	Total/NA
Tetrachloroethene	56		10		ug/L	10		8260B	Total/NA
Toluene	49		10		ug/L	10		8260B	Total/NA
Trichloroethene	36		10		ug/L	10		8260B	Total/NA
Vinyl chloride	110		10		ug/L	10		8260B	Total/NA
Xylenes, Total	530		10		ug/L	10		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: SMW-4 — Lab Sample ID: 680-136723-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	7.2		2.0		ug/L	2		8260B	Total/NA
1,2-Dichlorobenzene	3.0		2.0		ug/L	2		8260B	Total/NA
Chloroform	8.2		2.0		ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	11		2.0		ug/L	2		8260B	Total/NA
Tetrachloroethene	290		2.0		ug/L	2		8260B	Total/NA
Trichloroethene	52		2.0		ug/L	2		8260B	Total/NA

Client Sample ID: SRW-1 — Lab Sample ID: 680-136723-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	35		2.0		ug/L	2		8260B	Total/NA
1,1-Dichloroethene	94		2.0		ug/L	2		8260B	Total/NA
1,2-Dichloroethane	140		2.0		ug/L	2		8260B	Total/NA
Chloroform	3.3		2.0		ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	210		2.0		ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	610		5.0		ug/L	5		8260B	Total/NA
Trichloroethene - DL	430		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: WMW-1 — Lab Sample ID: 680-136723-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.2		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: YMW-1 — Lab Sample ID: 680-136723-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.2		2.0		ug/L	2		8260B	Total/NA
1,1-Dichloroethane	2.0		2.0		ug/L	2		8260B	Total/NA
1,1-Dichloroethene	8.0		2.0		ug/L	2		8260B	Total/NA
1,2-Dichlorobenzene	49		2.0		ug/L	2		8260B	Total/NA
1,3-Dichlorobenzene	14		2.0		ug/L	2		8260B	Total/NA
1,4-Dichlorobenzene	11		2.0		ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	82		2.0		ug/L	2		8260B	Total/NA
Tetrachloroethene	79		2.0		ug/L	2		8260B	Total/NA
Trichloroethene	62		2.0		ug/L	2		8260B	Total/NA

Client Sample ID: YMW-2 — Lab Sample ID: 680-136723-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	9.6		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethane	3.3		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	2.1		1.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	36		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	49		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	54		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: YMW-4 — Lab Sample ID: 680-136723-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.4		1.0		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah

Detection Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-5 — Lab Sample ID: 680-136723-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	23		5.0		ug/L	5		8260B	Total/NA
1,1-Dichloroethane	110		5.0		ug/L	5		8260B	Total/NA
1,1-Dichloroethene	350		5.0		ug/L	5		8260B	Total/NA
1,2-Dichloroethane	150		5.0		ug/L	5		8260B	Total/NA
1,3-Dichlorobenzene	220		5.0		ug/L	5		8260B	Total/NA
1,4-Dichlorobenzene	250		5.0		ug/L	5		8260B	Total/NA
Benzene	26		5.0		ug/L	5		8260B	Total/NA
Chlorobenzene	55		5.0		ug/L	5		8260B	Total/NA
Isopropylbenzene	8.7		5.0		ug/L	5		8260B	Total/NA
Naphthalene	33		25		ug/L	5		8260B	Total/NA
Tetrachloroethene	860		5.0		ug/L	5		8260B	Total/NA
Toluene	5.7		5.0		ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	6.0		5.0		ug/L	5		8260B	Total/NA
Trichloroethene	970		5.0		ug/L	5		8260B	Total/NA
Vinyl chloride	340		5.0		ug/L	5		8260B	Total/NA
Xylenes, Total	13		5.0		ug/L	5		8260B	Total/NA
1,2-Dichlorobenzene - DL	1100		20		ug/L	20		8260B	Total/NA
cis-1,2-Dichloroethene - DL	2500		20		ug/L	20		8260B	Total/NA

Client Sample ID: YMW-6 — Lab Sample ID: 680-136723-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	6.0		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	14		1.0		ug/L	1		8260B	Total/NA
1,2-Dichloroethane	18		1.0		ug/L	1		8260B	Total/NA
Chloroform	2.0		1.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	58		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	54		1.0		ug/L	1		8260B	Total/NA
Trichloroethene - DL	200		2.0		ug/L	2		8260B	Total/NA

Client Sample ID: YMW-7 — Lab Sample ID: 680-136723-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	8.9		5.0		ug/L	5		8260B	Total/NA
1,1-Dichloroethene	67		5.0		ug/L	5		8260B	Total/NA
1,2-Dichlorobenzene	5.1		5.0		ug/L	5		8260B	Total/NA
1,2-Dichloroethane	70		5.0		ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene	110		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene	140		5.0		ug/L	5		8260B	Total/NA
Trichloroethene	460		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: YMW-8 — Lab Sample ID: 680-136723-13

No Detections.

Client Sample ID: YMW-9 — Lab Sample ID: 680-136723-14

No Detections.

Client Sample ID: YMW-10 — Lab Sample ID: 680-136723-15

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah

Client Sample ID: YMW-10 (Continued) — Lab Sample ID: 680-136723-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	14		10		ug/L	10		8260B	Total/NA
1,1-Dichloroethane	49		10		ug/L	10		8260B	Total/NA
1,1-Dichloroethene	130		10		ug/L	10		8260B	Total/NA
1,2-Dichlorobenzene	320		10		ug/L	10		8260B	Total/NA
1,2-Dichloroethane	52		10		ug/L	10		8260B	Total/NA
1,3-Dichlorobenzene	71		10		ug/L	10		8260B	Total/NA
1,4-Dichlorobenzene	70		10		ug/L	10		8260B	Total/NA
Chlorobenzene	16		10		ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene	860		10		ug/L	10		8260B	Total/NA
Tetrachloroethene	490		10		ug/L	10		8260B	Total/NA
Trichloroethene	530		10		ug/L	10		8260B	Total/NA
Vinyl chloride	180		10		ug/L	10		8260B	Total/NA

Client Sample ID: YMW-11 — Lab Sample ID: 680-136723-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.6		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: YMW-13 — Lab Sample ID: 680-136723-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	11		10		ug/L	10		8260B	Total/NA
1,1-Dichloroethene	310		10		ug/L	10		8260B	Total/NA
1,2-Dichloroethane	150		10		ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene	510		10		ug/L	10		8260B	Total/NA
Tetrachloroethene	170		10		ug/L	10		8260B	Total/NA
Trichloroethene	470		10		ug/L	10		8260B	Total/NA

Client Sample ID: YMW-15 — Lab Sample ID: 680-136723-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	59		20		ug/L	20		8260B	Total/NA
1,1-Dichloroethene	290		20		ug/L	20		8260B	Total/NA
1,2-Dichlorobenzene	130		20		ug/L	20		8260B	Total/NA
1,2-Dichloroethane	120		20		ug/L	20		8260B	Total/NA
1,3-Dichlorobenzene	36		20		ug/L	20		8260B	Total/NA
1,4-Dichlorobenzene	33		20		ug/L	20		8260B	Total/NA
cis-1,2-Dichloroethene	1600		20		ug/L	20		8260B	Total/NA
Tetrachloroethene	950		20		ug/L	20		8260B	Total/NA
Trichloroethene	830		20		ug/L	20		8260B	Total/NA
Vinyl chloride	24		20		ug/L	20		8260B	Total/NA

Client Sample ID: YMW-14 — Lab Sample ID: 680-136723-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	33		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	100		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	14		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: YMW-16 — Lab Sample ID: 680-136723-20

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-16 (Continued) — Lab Sample ID: 680-136723-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane - DL	16		5.0		ug/L	5		8260B	Total/NA
1,1-Dichloroethene - DL	91		5.0		ug/L	5		8260B	Total/NA
1,2-Dichloroethane - DL	18		5.0		ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene - DL	370		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene - DL	380		5.0		ug/L	5		8260B	Total/NA
Trichloroethene - DL	290		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: YMW-17 — Lab Sample ID: 680-136723-21

No Detections.

Client Sample ID: YMW-18 — Lab Sample ID: 680-136723-22

No Detections.

Client Sample ID: YMW-19 — Lab Sample ID: 680-136723-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	12		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	24		1.0		ug/L	1		8260B	Total/NA
1,2-Dichloroethane	37		1.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	82		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	150		1.0		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.3		1.0		ug/L	1		8260B	Total/NA
Trichloroethene - DL	220		2.0		ug/L	2		8260B	Total/NA

Client Sample ID: DUP-1 — Lab Sample ID: 680-136723-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane - DL	39		10		ug/L	10		8260B	Total/NA
1,1-Dichloroethene - DL	100		10		ug/L	10		8260B	Total/NA
1,2-Dichlorobenzene - DL	240		10		ug/L	10		8260B	Total/NA
1,2-Dichloroethane - DL	42		10		ug/L	10		8260B	Total/NA
1,3-Dichlorobenzene - DL	52		10		ug/L	10		8260B	Total/NA
1,4-Dichlorobenzene - DL	53		10		ug/L	10		8260B	Total/NA
Chlorobenzene - DL	11		10		ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene - DL	690		10		ug/L	10		8260B	Total/NA
Tetrachloroethene - DL	400		10		ug/L	10		8260B	Total/NA
Trichloroethene - DL	430		10		ug/L	10		8260B	Total/NA
Vinyl chloride - DL	130		10		ug/L	10		8260B	Total/NA

Client Sample ID: DUP-2 — Lab Sample ID: 680-136723-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane - DL	110		20		ug/L	20		8260B	Total/NA
1,1-Dichloroethene - DL	350		20		ug/L	20		8260B	Total/NA
1,2-Dichlorobenzene - DL	1100		20		ug/L	20		8260B	Total/NA
1,2-Dichloroethane - DL	140		20		ug/L	20		8260B	Total/NA
1,3-Dichlorobenzene - DL	210		20		ug/L	20		8260B	Total/NA
1,4-Dichlorobenzene - DL	250		20		ug/L	20		8260B	Total/NA
Chlorobenzene - DL	55		20		ug/L	20		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: DUP-2 (Continued) — Lab Sample ID: 680-136723-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene - DL	2500		20		ug/L	20		8260B	Total/NA
Tetrachloroethene - DL	830		20		ug/L	20		8260B	Total/NA
Trichloroethene - DL	940		20		ug/L	20		8260B	Total/NA
Vinyl chloride - DL	340		20		ug/L	20		8260B	Total/NA

Client Sample ID: EQUIPMENT BLANK — Lab Sample ID: 680-136723-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	1.5		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: HMW-1 — Lab Sample ID: 680-136723-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.0		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	6.0		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	1.2		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SW-1 — Lab Sample ID: 680-136723-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	60		2.0		ug/L	2		8260B	Total/NA
1,1-Dichloroethane	6.2		2.0		ug/L	2		8260B	Total/NA
1,1-Dichloroethene	19		2.0		ug/L	2		8260B	Total/NA
Toluene	59		2.0		ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	5.0		2.0		ug/L	2		8260B	Total/NA
Vinyl chloride	14		2.0		ug/L	2		8260B	Total/NA
Xylenes, Total	6.6		2.0		ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene - DL	580		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene - DL	680		5.0		ug/L	5		8260B	Total/NA
Trichloroethene - DL	490		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: SW-2 — Lab Sample ID: 680-136723-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.6		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethane	4.7		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	14		1.0		ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	2.1		1.0		ug/L	1		8260B	Total/NA
1,2-Dichloroethane	10		1.0		ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	1.5		1.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	95		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	38		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	44		1.0		ug/L	1		8260B	Total/NA
Vinyl chloride	4.2		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SW-3 — Lab Sample ID: 680-136723-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.2		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	1.6		1.0		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: SW-3 (Continued) — Lab Sample ID: 680-136723-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.4		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SW-4 — Lab Sample ID: 680-136723-31

No Detections.

Client Sample ID: 8260B Trip Blank — Lab Sample ID: 680-136723-32

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: SMW-1

Date Collected: 03/21/17 14:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 14:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/31/17 14:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			03/31/17 14:39	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 14:39	1
1,1-Dichloroethane	**1.0**		1.0		ug/L			03/31/17 14:39	1
1,1-Dichloroethene	**1.2**		1.0		ug/L			03/31/17 14:39	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			03/31/17 14:39	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/31/17 14:39	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			03/31/17 14:39	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 14:39	1
1,2-Dichloroethane	**1.4**		1.0		ug/L			03/31/17 14:39	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/31/17 14:39	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 14:39	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 14:39	1
2-Butanone	10	U	10		ug/L			03/31/17 14:39	1
2-Hexanone	10	U	10		ug/L			03/31/17 14:39	1
4-Methyl-2-pentanone	10	U	10		ug/L			03/31/17 14:39	1
Acetone	10	U	10		ug/L			03/31/17 14:39	1
Benzene	1.0	U	1.0		ug/L			03/31/17 14:39	1
Bromodichloromethane	1.0	U	1.0		ug/L			03/31/17 14:39	1
Bromoform	1.0	U	1.0		ug/L			03/31/17 14:39	1
Bromomethane	5.0	U	5.0		ug/L			03/31/17 14:39	1
Carbon disulfide	2.0	U	2.0		ug/L			03/31/17 14:39	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/31/17 14:39	1
Chlorobenzene	1.0	U	1.0		ug/L			03/31/17 14:39	1
Chloroethane	5.0	U	5.0		ug/L			03/31/17 14:39	1
Chloroform	1.0	U	1.0		ug/L			03/31/17 14:39	1
Chloromethane	1.0	U	1.0		ug/L			03/31/17 14:39	1
cis-1,2-Dichloroethene	**4.9**		1.0		ug/L			03/31/17 14:39	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 14:39	1
Cyclohexane	1.0	U	1.0		ug/L			03/31/17 14:39	1
Dibromochloromethane	1.0	U	1.0		ug/L			03/31/17 14:39	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			03/31/17 14:39	1
Ethylbenzene	1.0	U	1.0		ug/L			03/31/17 14:39	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/31/17 14:39	1
Methyl acetate	5.0	U	5.0		ug/L			03/31/17 14:39	1
Methyl tert-butyl ether	10	U	10		ug/L			03/31/17 14:39	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/31/17 14:39	1
Methylene Chloride	5.0	U	5.0		ug/L			03/31/17 14:39	1
Naphthalene	5.0	U	5.0		ug/L			03/31/17 14:39	1
Styrene	1.0	U	1.0		ug/L			03/31/17 14:39	1
Tetrachloroethene	**4.8**		1.0		ug/L			03/31/17 14:39	1
Toluene	1.0	U	1.0		ug/L			03/31/17 14:39	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 14:39	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 14:39	1
Trichloroethene	**9.1**		1.0		ug/L			03/31/17 14:39	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			03/31/17 14:39	1
Vinyl chloride	1.0	U	1.0		ug/L			03/31/17 14:39	1
Xylenes, Total	1.0	U	1.0		ug/L			03/31/17 14:39	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: SMW-1
Date Collected: 03/21/17 14:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		03/31/17 14:39	1
Dibromofluoromethane (Surr)	99		80 - 122		03/31/17 14:39	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		03/31/17 14:39	1
Toluene-d8 (Surr)	100		80 - 120		03/31/17 14:39	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: SMW-2
Date Collected: 03/21/17 13:45
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 15:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/31/17 15:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			03/31/17 15:02	1
1,1,2-Trichloroethane	**2.3**		1.0		ug/L			03/31/17 15:02	1
1,1-Dichloroethane	**6.8**		1.0		ug/L			03/31/17 15:02	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 15:02	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			03/31/17 15:02	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/31/17 15:02	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			03/31/17 15:02	1
1,2-Dichlorobenzene	**43**		1.0		ug/L			03/31/17 15:02	1
1,2-Dichloroethane	**39**		1.0		ug/L			03/31/17 15:02	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/31/17 15:02	1
1,3-Dichlorobenzene	**15**		1.0		ug/L			03/31/17 15:02	1
1,4-Dichlorobenzene	**56**		1.0		ug/L			03/31/17 15:02	1
2-Butanone	10	U	10		ug/L			03/31/17 15:02	1
2-Hexanone	10	U	10		ug/L			03/31/17 15:02	1
4-Methyl-2-pentanone	10	U	10		ug/L			03/31/17 15:02	1
Acetone	10	U	10		ug/L			03/31/17 15:02	1
Benzene	**2.6**		1.0		ug/L			03/31/17 15:02	1
Bromodichloromethane	1.0	U	1.0		ug/L			03/31/17 15:02	1
Bromoform	1.0	U	1.0		ug/L			03/31/17 15:02	1
Bromomethane	5.0	U	5.0		ug/L			03/31/17 15:02	1
Carbon disulfide	2.0	U	2.0		ug/L			03/31/17 15:02	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/31/17 15:02	1
Chloroethane	5.0	U	5.0		ug/L			03/31/17 15:02	1
Chloroform	1.0	U	1.0		ug/L			03/31/17 15:02	1
Chloromethane	1.0	U	1.0		ug/L			03/31/17 15:02	1
cis-1,2-Dichloroethene	**36**		1.0		ug/L			03/31/17 15:02	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 15:02	1
Cyclohexane	1.0	U	1.0		ug/L			03/31/17 15:02	1
Dibromochloromethane	1.0	U	1.0		ug/L			03/31/17 15:02	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			03/31/17 15:02	1
Ethylbenzene	**52**		1.0		ug/L			03/31/17 15:02	1
Isopropylbenzene	**2.6**		1.0		ug/L			03/31/17 15:02	1
Methyl acetate	5.0	U	5.0		ug/L			03/31/17 15:02	1
Methyl tert-butyl ether	10	U	10		ug/L			03/31/17 15:02	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/31/17 15:02	1
Methylene Chloride	5.0	U	5.0		ug/L			03/31/17 15:02	1
Naphthalene	**16**		5.0		ug/L			03/31/17 15:02	1
Styrene	1.0	U	1.0		ug/L			03/31/17 15:02	1
Tetrachloroethene	**4.8**		1.0		ug/L			03/31/17 15:02	1
Toluene	**4.2**		1.0		ug/L			03/31/17 15:02	1
trans-1,2-Dichloroethene	**9.3**		1.0		ug/L			03/31/17 15:02	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 15:02	1
Trichloroethene	**3.2**		1.0		ug/L			03/31/17 15:02	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			03/31/17 15:02	1
Vinyl chloride	**25**		1.0		ug/L			03/31/17 15:02	1
Xylenes, Total	**69**		1.0		ug/L			03/31/17 15:02	1

Client Sample ID: SMW-2

Date Collected: 03/21/17 13:45
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*03/31/17 15:02*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*03/31/17 15:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*73 - 131*		*03/31/17 15:02*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/31/17 15:02*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**230**		2.0		ug/L			04/03/17 10:31	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*04/03/17 10:31*	*2*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*04/03/17 10:31*	*2*
1,2-Dichloroethane-d4 (Surr)	*92*		*73 - 131*		*04/03/17 10:31*	*2*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/03/17 10:31*	*2*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: SMW-3
Date Collected: 03/21/17 16:50
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	10	U	10		ug/L			03/31/17 17:44	10
1,1,2,2-Tetrachloroethane	10	U	10		ug/L			03/31/17 17:44	10
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10		ug/L			03/31/17 17:44	10
1,1,2-Trichloroethane	**16**		10		ug/L			03/31/17 17:44	10
1,1-Dichloroethane	**51**		10		ug/L			03/31/17 17:44	10
1,1-Dichloroethene	**22**		10		ug/L			03/31/17 17:44	10
1,2,4-Trichlorobenzene	50	U	50		ug/L			03/31/17 17:44	10
1,2-Dibromo-3-Chloropropane	50	U	50		ug/L			03/31/17 17:44	10
1,2-Dibromoethane	10	U	10		ug/L			03/31/17 17:44	10
1,2-Dichlorobenzene	**1100**		10		ug/L			03/31/17 17:44	10
1,2-Dichloroethane	**300**		10		ug/L			03/31/17 17:44	10
1,2-Dichloropropane	10	U	10		ug/L			03/31/17 17:44	10
1,3-Dichlorobenzene	**220**		10		ug/L			03/31/17 17:44	10
1,4-Dichlorobenzene	**140**		10		ug/L			03/31/17 17:44	10
2-Butanone	**910**		100		ug/L			03/31/17 17:44	10
2-Hexanone	100	U	100		ug/L			03/31/17 17:44	10
4-Methyl-2-pentanone	**4900**		100		ug/L			03/31/17 17:44	10
Acetone	**4300**		100		ug/L			03/31/17 17:44	10
Benzene	10	U	10		ug/L			03/31/17 17:44	10
Bromodichloromethane	10	U	10		ug/L			03/31/17 17:44	10
Bromoform	10	U	10		ug/L			03/31/17 17:44	10
Bromomethane	50	U	50		ug/L			03/31/17 17:44	10
Carbon disulfide	20	U	20		ug/L			03/31/17 17:44	10
Carbon tetrachloride	10	U	10		ug/L			03/31/17 17:44	10
Chlorobenzene	10	U	10		ug/L			03/31/17 17:44	10
Chloroethane	50	U	50		ug/L			03/31/17 17:44	10
Chloroform	10	U	10		ug/L			03/31/17 17:44	10
Chloromethane	10	U	10		ug/L			03/31/17 17:44	10
cis-1,2-Dichloroethene	**170**		10		ug/L			03/31/17 17:44	10
cis-1,3-Dichloropropene	10	U	10		ug/L			03/31/17 17:44	10
Cyclohexane	10	U	10		ug/L			03/31/17 17:44	10
Dibromochloromethane	10	U	10		ug/L			03/31/17 17:44	10
Dichlorodifluoromethane	10	U	10		ug/L			03/31/17 17:44	10
Ethylbenzene	10	U	10		ug/L			03/31/17 17:44	10
Isopropylbenzene	10	U	10		ug/L			03/31/17 17:44	10
Methyl acetate	50	U	50		ug/L			03/31/17 17:44	10
Methyl tert-butyl ether	100	U	100		ug/L			03/31/17 17:44	10
Methylcyclohexane	10	U	10		ug/L			03/31/17 17:44	10
Methylene Chloride	50	U	50		ug/L			03/31/17 17:44	10
Naphthalene	**69**		50		ug/L			03/31/17 17:44	10
Styrene	10	U	10		ug/L			03/31/17 17:44	10
Tetrachloroethene	**56**		10		ug/L			03/31/17 17:44	10
Toluene	**49**		10		ug/L			03/31/17 17:44	10
trans-1,2-Dichloroethene	10	U	10		ug/L			03/31/17 17:44	10
trans-1,3-Dichloropropene	10	U	10		ug/L			03/31/17 17:44	10
Trichloroethene	**36**		10		ug/L			03/31/17 17:44	10
Trichlorofluoromethane	10	U	10		ug/L			03/31/17 17:44	10
Vinyl chloride	**110**		10		ug/L			03/31/17 17:44	10
Xylenes, Total	**530**		10		ug/L			03/31/17 17:44	10

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: SMW-3
Date Collected: 03/21/17 16:50
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		03/31/17 17:44	10
Dibromofluoromethane (Surr)	97		80 - 122		03/31/17 17:44	10
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		03/31/17 17:44	10
Toluene-d8 (Surr)	100		80 - 120		03/31/17 17:44	10

Client Sample ID: SMW-4
Date Collected: 03/21/17 16:55
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.0	U	2.0		ug/L			03/31/17 18:07	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0		ug/L			03/31/17 18:07	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0		ug/L			03/31/17 18:07	2
1,1,2-Trichloroethane	2.0	U	2.0		ug/L			03/31/17 18:07	2
1,1-Dichloroethane	2.0	U	2.0		ug/L			03/31/17 18:07	2
1,1-Dichloroethene	**7.2**		2.0		ug/L			03/31/17 18:07	2
1,2,4-Trichlorobenzene	10	U	10		ug/L			03/31/17 18:07	2
1,2-Dibromo-3-Chloropropane	10	U	10		ug/L			03/31/17 18:07	2
1,2-Dibromoethane	2.0	U	2.0		ug/L			03/31/17 18:07	2
1,2-Dichlorobenzene	**3.0**		2.0		ug/L			03/31/17 18:07	2
1,2-Dichloroethane	2.0	U	2.0		ug/L			03/31/17 18:07	2
1,2-Dichloropropane	2.0	U	2.0		ug/L			03/31/17 18:07	2
1,3-Dichlorobenzene	2.0	U	2.0		ug/L			03/31/17 18:07	2
1,4-Dichlorobenzene	2.0	U	2.0		ug/L			03/31/17 18:07	2
2-Butanone	20	U	20		ug/L			03/31/17 18:07	2
2-Hexanone	20	U	20		ug/L			03/31/17 18:07	2
4-Methyl-2-pentanone	20	U	20		ug/L			03/31/17 18:07	2
Acetone	20	U	20		ug/L			03/31/17 18:07	2
Benzene	2.0	U	2.0		ug/L			03/31/17 18:07	2
Bromodichloromethane	2.0	U	2.0		ug/L			03/31/17 18:07	2
Bromoform	2.0	U	2.0		ug/L			03/31/17 18:07	2
Bromomethane	10	U	10		ug/L			03/31/17 18:07	2
Carbon disulfide	4.0	U	4.0		ug/L			03/31/17 18:07	2
Carbon tetrachloride	2.0	U	2.0		ug/L			03/31/17 18:07	2
Chlorobenzene	2.0	U	2.0		ug/L			03/31/17 18:07	2
Chloroethane	10	U	10		ug/L			03/31/17 18:07	2
Chloroform	**8.2**		2.0		ug/L			03/31/17 18:07	2
Chloromethane	2.0	U	2.0		ug/L			03/31/17 18:07	2
cis-1,2-Dichloroethene	**11**		2.0		ug/L			03/31/17 18:07	2
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/31/17 18:07	2
Cyclohexane	2.0	U	2.0		ug/L			03/31/17 18:07	2
Dibromochloromethane	2.0	U	2.0		ug/L			03/31/17 18:07	2
Dichlorodifluoromethane	2.0	U	2.0		ug/L			03/31/17 18:07	2
Ethylbenzene	2.0	U	2.0		ug/L			03/31/17 18:07	2
Isopropylbenzene	2.0	U	2.0		ug/L			03/31/17 18:07	2
Methyl acetate	10	U	10		ug/L			03/31/17 18:07	2
Methyl tert-butyl ether	20	U	20		ug/L			03/31/17 18:07	2
Methylcyclohexane	2.0	U	2.0		ug/L			03/31/17 18:07	2
Methylene Chloride	10	U	10		ug/L			03/31/17 18:07	2
Naphthalene	10	U	10		ug/L			03/31/17 18:07	2
Styrene	2.0	U	2.0		ug/L			03/31/17 18:07	2
Tetrachloroethene	**290**		2.0		ug/L			03/31/17 18:07	2
Toluene	2.0	U	2.0		ug/L			03/31/17 18:07	2
trans-1,2-Dichloroethene	2.0	U	2.0		ug/L			03/31/17 18:07	2
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/31/17 18:07	2
Trichloroethene	**52**		2.0		ug/L			03/31/17 18:07	2
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/31/17 18:07	2
Vinyl chloride	2.0	U	2.0		ug/L			03/31/17 18:07	2
Xylenes, Total	2.0	U	2.0		ug/L			03/31/17 18:07	2

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: SMW-4
Date Collected: 03/21/17 16:55
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-4
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		03/31/17 18:07	2
Dibromofluoromethane (Surr)	97		80 - 122		03/31/17 18:07	2
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		03/31/17 18:07	2
Toluene-d8 (Surr)	99		80 - 120		03/31/17 18:07	2

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: SRW-1
Date Collected: 03/21/17 15:05
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.0	U	2.0		ug/L			03/31/17 18:30	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0		ug/L			03/31/17 18:30	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0		ug/L			03/31/17 18:30	2
1,1,2-Trichloroethane	2.0	U	2.0		ug/L			03/31/17 18:30	2
1,1-Dichloroethane	**35**		2.0		ug/L			03/31/17 18:30	2
1,1-Dichloroethene	**94**		2.0		ug/L			03/31/17 18:30	2
1,2,4-Trichlorobenzene	10	U	10		ug/L			03/31/17 18:30	2
1,2-Dibromo-3-Chloropropane	10	U	10		ug/L			03/31/17 18:30	2
1,2-Dibromoethane	2.0	U	2.0		ug/L			03/31/17 18:30	2
1,2-Dichlorobenzene	2.0	U	2.0		ug/L			03/31/17 18:30	2
1,2-Dichloroethane	**140**		2.0		ug/L			03/31/17 18:30	2
1,2-Dichloropropane	2.0	U	2.0		ug/L			03/31/17 18:30	2
1,3-Dichlorobenzene	2.0	U	2.0		ug/L			03/31/17 18:30	2
1,4-Dichlorobenzene	2.0	U	2.0		ug/L			03/31/17 18:30	2
2-Butanone	20	U	20		ug/L			03/31/17 18:30	2
2-Hexanone	20	U	20		ug/L			03/31/17 18:30	2
4-Methyl-2-pentanone	20	U	20		ug/L			03/31/17 18:30	2
Acetone	20	U	20		ug/L			03/31/17 18:30	2
Benzene	2.0	U	2.0		ug/L			03/31/17 18:30	2
Bromodichloromethane	2.0	U	2.0		ug/L			03/31/17 18:30	2
Bromoform	2.0	U	2.0		ug/L			03/31/17 18:30	2
Bromomethane	10	U	10		ug/L			03/31/17 18:30	2
Carbon disulfide	4.0	U	4.0		ug/L			03/31/17 18:30	2
Carbon tetrachloride	2.0	U	2.0		ug/L			03/31/17 18:30	2
Chlorobenzene	2.0	U	2.0		ug/L			03/31/17 18:30	2
Chloroethane	10	U	10		ug/L			03/31/17 18:30	2
Chloroform	**3.3**		2.0		ug/L			03/31/17 18:30	2
Chloromethane	2.0	U	2.0		ug/L			03/31/17 18:30	2
cis-1,2-Dichloroethene	**210**		2.0		ug/L			03/31/17 18:30	2
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/31/17 18:30	2
Cyclohexane	2.0	U	2.0		ug/L			03/31/17 18:30	2
Dibromochloromethane	2.0	U	2.0		ug/L			03/31/17 18:30	2
Dichlorodifluoromethane	2.0	U	2.0		ug/L			03/31/17 18:30	2
Ethylbenzene	2.0	U	2.0		ug/L			03/31/17 18:30	2
Isopropylbenzene	2.0	U	2.0		ug/L			03/31/17 18:30	2
Methyl acetate	10	U	10		ug/L			03/31/17 18:30	2
Methyl tert-butyl ether	20	U	20		ug/L			03/31/17 18:30	2
Methylcyclohexane	2.0	U	2.0		ug/L			03/31/17 18:30	2
Methylene Chloride	10	U	10		ug/L			03/31/17 18:30	2
Naphthalene	10	U	10		ug/L			03/31/17 18:30	2
Styrene	2.0	U	2.0		ug/L			03/31/17 18:30	2
Toluene	2.0	U	2.0		ug/L			03/31/17 18:30	2
trans-1,2-Dichloroethene	2.0	U	2.0		ug/L			03/31/17 18:30	2
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/31/17 18:30	2
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/31/17 18:30	2
Vinyl chloride	2.0	U	2.0		ug/L			03/31/17 18:30	2
Xylenes, Total	2.0	U	2.0		ug/L			03/31/17 18:30	2

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: SRW-1
Date Collected: 03/21/17 15:05
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		03/31/17 18:30	2
Dibromofluoromethane (Surr)	96		80 - 122		03/31/17 18:30	2
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		03/31/17 18:30	2
Toluene-d8 (Surr)	100		80 - 120		03/31/17 18:30	2

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	610		5.0		ug/L			04/03/17 11:17	5
Trichloroethene	430		5.0		ug/L			04/03/17 11:17	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		04/03/17 11:17	5
Dibromofluoromethane (Surr)	95		80 - 122		04/03/17 11:17	5
1,2-Dichloroethane-d4 (Surr)	91		73 - 131		04/03/17 11:17	5
Toluene-d8 (Surr)	99		80 - 120		04/03/17 11:17	5

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: WMW-1
Date Collected: 03/21/17 12:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 15:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/31/17 15:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			03/31/17 15:26	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 15:26	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/31/17 15:26	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 15:26	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			03/31/17 15:26	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/31/17 15:26	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			03/31/17 15:26	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 15:26	1
1,2-Dichloroethane	**1.2**		1.0		ug/L			03/31/17 15:26	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/31/17 15:26	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 15:26	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 15:26	1
2-Butanone	10	U	10		ug/L			03/31/17 15:26	1
2-Hexanone	10	U	10		ug/L			03/31/17 15:26	1
4-Methyl-2-pentanone	10	U	10		ug/L			03/31/17 15:26	1
Acetone	10	U	10		ug/L			03/31/17 15:26	1
Benzene	1.0	U	1.0		ug/L			03/31/17 15:26	1
Bromodichloromethane	1.0	U	1.0		ug/L			03/31/17 15:26	1
Bromoform	1.0	U	1.0		ug/L			03/31/17 15:26	1
Bromomethane	5.0	U	5.0		ug/L			03/31/17 15:26	1
Carbon disulfide	2.0	U	2.0		ug/L			03/31/17 15:26	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/31/17 15:26	1
Chlorobenzene	1.0	U	1.0		ug/L			03/31/17 15:26	1
Chloroethane	5.0	U	5.0		ug/L			03/31/17 15:26	1
Chloroform	1.0	U	1.0		ug/L			03/31/17 15:26	1
Chloromethane	1.0	U	1.0		ug/L			03/31/17 15:26	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 15:26	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 15:26	1
Cyclohexane	1.0	U	1.0		ug/L			03/31/17 15:26	1
Dibromochloromethane	1.0	U	1.0		ug/L			03/31/17 15:26	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			03/31/17 15:26	1
Ethylbenzene	1.0	U	1.0		ug/L			03/31/17 15:26	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/31/17 15:26	1
Methyl acetate	5.0	U	5.0		ug/L			03/31/17 15:26	1
Methyl tert-butyl ether	10	U	10		ug/L			03/31/17 15:26	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/31/17 15:26	1
Methylene Chloride	5.0	U	5.0		ug/L			03/31/17 15:26	1
Naphthalene	5.0	U	5.0		ug/L			03/31/17 15:26	1
Styrene	1.0	U	1.0		ug/L			03/31/17 15:26	1
Tetrachloroethene	1.0	U	1.0		ug/L			03/31/17 15:26	1
Toluene	1.0	U	1.0		ug/L			03/31/17 15:26	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 15:26	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 15:26	1
Trichloroethene	1.0	U	1.0		ug/L			03/31/17 15:26	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			03/31/17 15:26	1
Vinyl chloride	1.0	U	1.0		ug/L			03/31/17 15:26	1
Xylenes, Total	1.0	U	1.0		ug/L			03/31/17 15:26	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: WMW-1
Date Collected: 03/21/17 12:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-6
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		03/31/17 15:26	1
Dibromofluoromethane (Surr)	97		80 - 122		03/31/17 15:26	1
1,2-Dichloroethane-d4 (Surr)	93		73 - 131		03/31/17 15:26	1
Toluene-d8 (Surr)	102		80 - 120		03/31/17 15:26	1

Client Sample ID: YMW-1
Date Collected: 03/21/17 11:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**2.2**		2.0		ug/L			03/31/17 18:53	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0		ug/L			03/31/17 18:53	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0		ug/L			03/31/17 18:53	2
1,1,2-Trichloroethane	2.0	U	2.0		ug/L			03/31/17 18:53	2
1,1-Dichloroethane	**2.0**		2.0		ug/L			03/31/17 18:53	2
1,1-Dichloroethene	**8.0**		2.0		ug/L			03/31/17 18:53	2
1,2,4-Trichlorobenzene	10	U	10		ug/L			03/31/17 18:53	2
1,2-Dibromo-3-Chloropropane	10	U	10		ug/L			03/31/17 18:53	2
1,2-Dibromoethane	2.0	U	2.0		ug/L			03/31/17 18:53	2
1,2-Dichlorobenzene	**49**		2.0		ug/L			03/31/17 18:53	2
1,2-Dichloroethane	2.0	U	2.0		ug/L			03/31/17 18:53	2
1,2-Dichloropropane	2.0	U	2.0		ug/L			03/31/17 18:53	2
1,3-Dichlorobenzene	**14**		2.0		ug/L			03/31/17 18:53	2
1,4-Dichlorobenzene	**11**		2.0		ug/L			03/31/17 18:53	2
2-Butanone	20	U	20		ug/L			03/31/17 18:53	2
2-Hexanone	20	U	20		ug/L			03/31/17 18:53	2
4-Methyl-2-pentanone	20	U	20		ug/L			03/31/17 18:53	2
Acetone	20	U	20		ug/L			03/31/17 18:53	2
Benzene	2.0	U	2.0		ug/L			03/31/17 18:53	2
Bromodichloromethane	2.0	U	2.0		ug/L			03/31/17 18:53	2
Bromoform	2.0	U	2.0		ug/L			03/31/17 18:53	2
Bromomethane	10	U	10		ug/L			03/31/17 18:53	2
Carbon disulfide	4.0	U	4.0		ug/L			03/31/17 18:53	2
Carbon tetrachloride	2.0	U	2.0		ug/L			03/31/17 18:53	2
Chlorobenzene	2.0	U	2.0		ug/L			03/31/17 18:53	2
Chloroethane	10	U	10		ug/L			03/31/17 18:53	2
Chloroform	2.0	U	2.0		ug/L			03/31/17 18:53	2
Chloromethane	2.0	U	2.0		ug/L			03/31/17 18:53	2
cis-1,2-Dichloroethene	**82**		2.0		ug/L			03/31/17 18:53	2
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/31/17 18:53	2
Cyclohexane	2.0	U	2.0		ug/L			03/31/17 18:53	2
Dibromochloromethane	2.0	U	2.0		ug/L			03/31/17 18:53	2
Dichlorodifluoromethane	2.0	U	2.0		ug/L			03/31/17 18:53	2
Ethylbenzene	2.0	U	2.0		ug/L			03/31/17 18:53	2
Isopropylbenzene	2.0	U	2.0		ug/L			03/31/17 18:53	2
Methyl acetate	10	U	10		ug/L			03/31/17 18:53	2
Methyl tert-butyl ether	20	U	20		ug/L			03/31/17 18:53	2
Methylcyclohexane	2.0	U	2.0		ug/L			03/31/17 18:53	2
Methylene Chloride	10	U	10		ug/L			03/31/17 18:53	2
Naphthalene	10	U	10		ug/L			03/31/17 18:53	2
Styrene	2.0	U	2.0		ug/L			03/31/17 18:53	2
Tetrachloroethene	**79**		2.0		ug/L			03/31/17 18:53	2
Toluene	2.0	U	2.0		ug/L			03/31/17 18:53	2
trans-1,2-Dichloroethene	2.0	U	2.0		ug/L			03/31/17 18:53	2
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/31/17 18:53	2
Trichloroethene	**62**		2.0		ug/L			03/31/17 18:53	2
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/31/17 18:53	2
Vinyl chloride	2.0	U	2.0		ug/L			03/31/17 18:53	2
Xylenes, Total	2.0	U	2.0		ug/L			03/31/17 18:53	2

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-1
Date Collected: 03/21/17 11:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		03/31/17 18:53	2
Dibromofluoromethane (Surr)	97		80 - 122		03/31/17 18:53	2
1,2-Dichloroethane-d4 (Surr)	93		73 - 131		03/31/17 18:53	2
Toluene-d8 (Surr)	101		80 - 120		03/31/17 18:53	2

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-2

Date Collected: 03/22/17 16:55
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**9.6**		1.0		ug/L			04/03/17 10:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			04/03/17 10:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			04/03/17 10:08	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			04/03/17 10:08	1
1,1-Dichloroethane	**3.3**		1.0		ug/L			04/03/17 10:08	1
1,1-Dichloroethene	**2.1**		1.0		ug/L			04/03/17 10:08	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			04/03/17 10:08	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			04/03/17 10:08	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			04/03/17 10:08	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 10:08	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			04/03/17 10:08	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			04/03/17 10:08	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 10:08	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 10:08	1
2-Butanone	10	U	10		ug/L			04/03/17 10:08	1
2-Hexanone	10	U	10		ug/L			04/03/17 10:08	1
4-Methyl-2-pentanone	10	U	10		ug/L			04/03/17 10:08	1
Acetone	10	U	10		ug/L			04/03/17 10:08	1
Benzene	1.0	U	1.0		ug/L			04/03/17 10:08	1
Bromodichloromethane	1.0	U	1.0		ug/L			04/03/17 10:08	1
Bromoform	1.0	U	1.0		ug/L			04/03/17 10:08	1
Bromomethane	5.0	U	5.0		ug/L			04/03/17 10:08	1
Carbon disulfide	2.0	U	2.0		ug/L			04/03/17 10:08	1
Carbon tetrachloride	1.0	U	1.0		ug/L			04/03/17 10:08	1
Chlorobenzene	1.0	U	1.0		ug/L			04/03/17 10:08	1
Chloroethane	5.0	U	5.0		ug/L			04/03/17 10:08	1
Chloroform	1.0	U	1.0		ug/L			04/03/17 10:08	1
Chloromethane	1.0	U	1.0		ug/L			04/03/17 10:08	1
cis-1,2-Dichloroethene	**36**		1.0		ug/L			04/03/17 10:08	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 10:08	1
Cyclohexane	1.0	U	1.0		ug/L			04/03/17 10:08	1
Dibromochloromethane	1.0	U	1.0		ug/L			04/03/17 10:08	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			04/03/17 10:08	1
Ethylbenzene	1.0	U	1.0		ug/L			04/03/17 10:08	1
Isopropylbenzene	1.0	U	1.0		ug/L			04/03/17 10:08	1
Methyl acetate	5.0	U	5.0		ug/L			04/03/17 10:08	1
Methyl tert-butyl ether	10	U	10		ug/L			04/03/17 10:08	1
Methylcyclohexane	1.0	U	1.0		ug/L			04/03/17 10:08	1
Methylene Chloride	5.0	U	5.0		ug/L			04/03/17 10:08	1
Naphthalene	5.0	U	5.0		ug/L			04/03/17 10:08	1
Styrene	1.0	U	1.0		ug/L			04/03/17 10:08	1
Tetrachloroethene	**49**		1.0		ug/L			04/03/17 10:08	1
Toluene	1.0	U	1.0		ug/L			04/03/17 10:08	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 10:08	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 10:08	1
Trichloroethene	**54**		1.0		ug/L			04/03/17 10:08	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			04/03/17 10:08	1
Vinyl chloride	1.0	U	1.0		ug/L			04/03/17 10:08	1
Xylenes, Total	1.0	U	1.0		ug/L			04/03/17 10:08	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-2
Date Collected: 03/22/17 16:55
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-8
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		04/03/17 10:08	1
Dibromofluoromethane (Surr)	97		80 - 122		04/03/17 10:08	1
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		04/03/17 10:08	1
Toluene-d8 (Surr)	99		80 - 120		04/03/17 10:08	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-4
Date Collected: 03/21/17 10:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 15:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/31/17 15:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			03/31/17 15:49	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 15:49	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/31/17 15:49	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 15:49	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			03/31/17 15:49	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/31/17 15:49	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			03/31/17 15:49	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 15:49	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/31/17 15:49	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/31/17 15:49	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 15:49	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 15:49	1
2-Butanone	10	U	10		ug/L			03/31/17 15:49	1
2-Hexanone	10	U	10		ug/L			03/31/17 15:49	1
4-Methyl-2-pentanone	10	U	10		ug/L			03/31/17 15:49	1
Acetone	10	U	10		ug/L			03/31/17 15:49	1
Benzene	1.0	U	1.0		ug/L			03/31/17 15:49	1
Bromodichloromethane	1.0	U	1.0		ug/L			03/31/17 15:49	1
Bromoform	1.0	U	1.0		ug/L			03/31/17 15:49	1
Bromomethane	5.0	U	5.0		ug/L			03/31/17 15:49	1
Carbon disulfide	2.0	U	2.0		ug/L			03/31/17 15:49	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/31/17 15:49	1
Chlorobenzene	1.0	U	1.0		ug/L			03/31/17 15:49	1
Chloroethane	5.0	U	5.0		ug/L			03/31/17 15:49	1
Chloroform	1.0	U	1.0		ug/L			03/31/17 15:49	1
Chloromethane	1.0	U	1.0		ug/L			03/31/17 15:49	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 15:49	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 15:49	1
Cyclohexane	1.0	U	1.0		ug/L			03/31/17 15:49	1
Dibromochloromethane	1.0	U	1.0		ug/L			03/31/17 15:49	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			03/31/17 15:49	1
Ethylbenzene	1.0	U	1.0		ug/L			03/31/17 15:49	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/31/17 15:49	1
Methyl acetate	5.0	U	5.0		ug/L			03/31/17 15:49	1
Methyl tert-butyl ether	10	U	10		ug/L			03/31/17 15:49	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/31/17 15:49	1
Methylene Chloride	5.0	U	5.0		ug/L			03/31/17 15:49	1
Naphthalene	5.0	U	5.0		ug/L			03/31/17 15:49	1
Styrene	1.0	U	1.0		ug/L			03/31/17 15:49	1
Tetrachloroethene	**1.4**		1.0		ug/L			03/31/17 15:49	1
Toluene	1.0	U	1.0		ug/L			03/31/17 15:49	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 15:49	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 15:49	1
Trichloroethene	1.0	U	1.0		ug/L			03/31/17 15:49	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			03/31/17 15:49	1
Vinyl chloride	1.0	U	1.0		ug/L			03/31/17 15:49	1
Xylenes, Total	1.0	U	1.0		ug/L			03/31/17 15:49	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-4
Date Collected: 03/21/17 10:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-9
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		03/31/17 15:49	1
Dibromofluoromethane (Surr)	98		80 - 122		03/31/17 15:49	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		03/31/17 15:49	1
Toluene-d8 (Surr)	99		80 - 120		03/31/17 15:49	1

Client Sample ID: YMW-5

Date Collected: 03/23/17 12:40
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**23**		5.0		ug/L			03/31/17 19:39	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/L			03/31/17 19:39	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0		ug/L			03/31/17 19:39	5
1,1,2-Trichloroethane	5.0	U	5.0		ug/L			03/31/17 19:39	5
1,1-Dichloroethane	**110**		5.0		ug/L			03/31/17 19:39	5
1,1-Dichloroethene	**350**		5.0		ug/L			03/31/17 19:39	5
1,2,4-Trichlorobenzene	25	U	25		ug/L			03/31/17 19:39	5
1,2-Dibromo-3-Chloropropane	25	U	25		ug/L			03/31/17 19:39	5
1,2-Dibromoethane	5.0	U	5.0		ug/L			03/31/17 19:39	5
1,2-Dichloroethane	**150**		5.0		ug/L			03/31/17 19:39	5
1,2-Dichloropropane	5.0	U	5.0		ug/L			03/31/17 19:39	5
1,3-Dichlorobenzene	**220**		5.0		ug/L			03/31/17 19:39	5
1,4-Dichlorobenzene	**250**		5.0		ug/L			03/31/17 19:39	5
2-Butanone	50	U	50		ug/L			03/31/17 19:39	5
2-Hexanone	50	U	50		ug/L			03/31/17 19:39	5
4-Methyl-2-pentanone	50	U	50		ug/L			03/31/17 19:39	5
Acetone	50	U	50		ug/L			03/31/17 19:39	5
Benzene	**26**		5.0		ug/L			03/31/17 19:39	5
Bromodichloromethane	5.0	U	5.0		ug/L			03/31/17 19:39	5
Bromoform	5.0	U	5.0		ug/L			03/31/17 19:39	5
Bromomethane	25	U	25		ug/L			03/31/17 19:39	5
Carbon disulfide	10	U	10		ug/L			03/31/17 19:39	5
Carbon tetrachloride	5.0	U	5.0		ug/L			03/31/17 19:39	5
Chlorobenzene	**55**		5.0		ug/L			03/31/17 19:39	5
Chloroethane	25	U	25		ug/L			03/31/17 19:39	5
Chloroform	5.0	U	5.0		ug/L			03/31/17 19:39	5
Chloromethane	5.0	U	5.0		ug/L			03/31/17 19:39	5
cis-1,3-Dichloropropene	5.0	U	5.0		ug/L			03/31/17 19:39	5
Cyclohexane	5.0	U	5.0		ug/L			03/31/17 19:39	5
Dibromochloromethane	5.0	U	5.0		ug/L			03/31/17 19:39	5
Dichlorodifluoromethane	5.0	U	5.0		ug/L			03/31/17 19:39	5
Ethylbenzene	5.0	U	5.0		ug/L			03/31/17 19:39	5
Isopropylbenzene	**8.7**		5.0		ug/L			03/31/17 19:39	5
Methyl acetate	25	U	25		ug/L			03/31/17 19:39	5
Methyl tert-butyl ether	50	U	50		ug/L			03/31/17 19:39	5
Methylcyclohexane	5.0	U	5.0		ug/L			03/31/17 19:39	5
Methylene Chloride	25	U	25		ug/L			03/31/17 19:39	5
Naphthalene	**33**		25		ug/L			03/31/17 19:39	5
Styrene	5.0	U	5.0		ug/L			03/31/17 19:39	5
Tetrachloroethene	**860**		5.0		ug/L			03/31/17 19:39	5
Toluene	**5.7**		5.0		ug/L			03/31/17 19:39	5
trans-1,2-Dichloroethene	**6.0**		5.0		ug/L			03/31/17 19:39	5
trans-1,3-Dichloropropene	5.0	U	5.0		ug/L			03/31/17 19:39	5
Trichloroethene	**970**		5.0		ug/L			03/31/17 19:39	5
Trichlorofluoromethane	5.0	U	5.0		ug/L			03/31/17 19:39	5
Vinyl chloride	**340**		5.0		ug/L			03/31/17 19:39	5
Xylenes, Total	**13**		5.0		ug/L			03/31/17 19:39	5

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-5
Date Collected: 03/23/17 12:40
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-10
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		03/31/17 19:39	5
Dibromofluoromethane (Surr)	97		80 - 122		03/31/17 19:39	5
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		03/31/17 19:39	5
Toluene-d8 (Surr)	101		80 - 120		03/31/17 19:39	5

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	1100		20		ug/L			04/03/17 11:40	20
cis-1,2-Dichloroethene	2500		20		ug/L			04/03/17 11:40	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		04/03/17 11:40	20
Dibromofluoromethane (Surr)	97		80 - 122		04/03/17 11:40	20
1,2-Dichloroethane-d4 (Surr)	91		73 - 131		04/03/17 11:40	20
Toluene-d8 (Surr)	102		80 - 120		04/03/17 11:40	20

Client Sample ID: YMW-6

Date Collected: 03/22/17 10:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-11

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 16:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/31/17 16:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			03/31/17 16:12	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 16:12	1
1,1-Dichloroethane	**6.0**		1.0		ug/L			03/31/17 16:12	1
1,1-Dichloroethene	**14**		1.0		ug/L			03/31/17 16:12	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			03/31/17 16:12	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/31/17 16:12	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			03/31/17 16:12	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 16:12	1
1,2-Dichloroethane	**18**		1.0		ug/L			03/31/17 16:12	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/31/17 16:12	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 16:12	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 16:12	1
2-Butanone	10	U	10		ug/L			03/31/17 16:12	1
2-Hexanone	10	U	10		ug/L			03/31/17 16:12	1
4-Methyl-2-pentanone	10	U	10		ug/L			03/31/17 16:12	1
Acetone	10	U	10		ug/L			03/31/17 16:12	1
Benzene	1.0	U	1.0		ug/L			03/31/17 16:12	1
Bromodichloromethane	1.0	U	1.0		ug/L			03/31/17 16:12	1
Bromoform	1.0	U	1.0		ug/L			03/31/17 16:12	1
Bromomethane	5.0	U	5.0		ug/L			03/31/17 16:12	1
Carbon disulfide	2.0	U	2.0		ug/L			03/31/17 16:12	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/31/17 16:12	1
Chlorobenzene	1.0	U	1.0		ug/L			03/31/17 16:12	1
Chloroethane	5.0	U	5.0		ug/L			03/31/17 16:12	1
Chloroform	**2.0**		1.0		ug/L			03/31/17 16:12	1
Chloromethane	1.0	U	1.0		ug/L			03/31/17 16:12	1
cis-1,2-Dichloroethene	**58**		1.0		ug/L			03/31/17 16:12	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 16:12	1
Cyclohexane	1.0	U	1.0		ug/L			03/31/17 16:12	1
Dibromochloromethane	1.0	U	1.0		ug/L			03/31/17 16:12	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			03/31/17 16:12	1
Ethylbenzene	1.0	U	1.0		ug/L			03/31/17 16:12	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/31/17 16:12	1
Methyl acetate	5.0	U	5.0		ug/L			03/31/17 16:12	1
Methyl tert-butyl ether	10	U	10		ug/L			03/31/17 16:12	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/31/17 16:12	1
Methylene Chloride	5.0	U	5.0		ug/L			03/31/17 16:12	1
Naphthalene	5.0	U	5.0		ug/L			03/31/17 16:12	1
Styrene	1.0	U	1.0		ug/L			03/31/17 16:12	1
Tetrachloroethene	**54**		1.0		ug/L			03/31/17 16:12	1
Toluene	1.0	U	1.0		ug/L			03/31/17 16:12	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 16:12	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 16:12	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			03/31/17 16:12	1
Vinyl chloride	1.0	U	1.0		ug/L			03/31/17 16:12	1
Xylenes, Total	1.0	U	1.0		ug/L			03/31/17 16:12	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-6
Date Collected: 03/22/17 10:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-11
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		03/31/17 16:12	1
Dibromofluoromethane (Surr)	98		80 - 122		03/31/17 16:12	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		03/31/17 16:12	1
Toluene-d8 (Surr)	100		80 - 120		03/31/17 16:12	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	200		2.0		ug/L			04/03/17 10:54	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		04/03/17 10:54	2
Dibromofluoromethane (Surr)	95		80 - 122		04/03/17 10:54	2
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		04/03/17 10:54	2
Toluene-d8 (Surr)	99		80 - 120		04/03/17 10:54	2

Client Sample ID: YMW-7

Date Collected: 03/22/17 11:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-12

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0		ug/L			03/31/17 20:02	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/L			03/31/17 20:02	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0		ug/L			03/31/17 20:02	5
1,1,2-Trichloroethane	5.0	U	5.0		ug/L			03/31/17 20:02	5
1,1-Dichloroethane	**8.9**		5.0		ug/L			03/31/17 20:02	5
1,1-Dichloroethene	**67**		5.0		ug/L			03/31/17 20:02	5
1,2,4-Trichlorobenzene	25	U	25		ug/L			03/31/17 20:02	5
1,2-Dibromo-3-Chloropropane	25	U	25		ug/L			03/31/17 20:02	5
1,2-Dibromoethane	5.0	U	5.0		ug/L			03/31/17 20:02	5
1,2-Dichlorobenzene	**5.1**		5.0		ug/L			03/31/17 20:02	5
1,2-Dichloroethane	**70**		5.0		ug/L			03/31/17 20:02	5
1,2-Dichloropropane	5.0	U	5.0		ug/L			03/31/17 20:02	5
1,3-Dichlorobenzene	5.0	U	5.0		ug/L			03/31/17 20:02	5
1,4-Dichlorobenzene	5.0	U	5.0		ug/L			03/31/17 20:02	5
2-Butanone	50	U	50		ug/L			03/31/17 20:02	5
2-Hexanone	50	U	50		ug/L			03/31/17 20:02	5
4-Methyl-2-pentanone	50	U	50		ug/L			03/31/17 20:02	5
Acetone	50	U	50		ug/L			03/31/17 20:02	5
Benzene	5.0	U	5.0		ug/L			03/31/17 20:02	5
Bromodichloromethane	5.0	U	5.0		ug/L			03/31/17 20:02	5
Bromoform	5.0	U	5.0		ug/L			03/31/17 20:02	5
Bromomethane	25	U	25		ug/L			03/31/17 20:02	5
Carbon disulfide	10	U	10		ug/L			03/31/17 20:02	5
Carbon tetrachloride	5.0	U	5.0		ug/L			03/31/17 20:02	5
Chlorobenzene	5.0	U	5.0		ug/L			03/31/17 20:02	5
Chloroethane	25	U	25		ug/L			03/31/17 20:02	5
Chloroform	5.0	U	5.0		ug/L			03/31/17 20:02	5
Chloromethane	5.0	U	5.0		ug/L			03/31/17 20:02	5
cis-1,2-Dichloroethene	**110**		5.0		ug/L			03/31/17 20:02	5
cis-1,3-Dichloropropene	5.0	U	5.0		ug/L			03/31/17 20:02	5
Cyclohexane	5.0	U	5.0		ug/L			03/31/17 20:02	5
Dibromochloromethane	5.0	U	5.0		ug/L			03/31/17 20:02	5
Dichlorodifluoromethane	5.0	U	5.0		ug/L			03/31/17 20:02	5
Ethylbenzene	5.0	U	5.0		ug/L			03/31/17 20:02	5
Isopropylbenzene	5.0	U	5.0		ug/L			03/31/17 20:02	5
Methyl acetate	25	U	25		ug/L			03/31/17 20:02	5
Methyl tert-butyl ether	50	U	50		ug/L			03/31/17 20:02	5
Methylcyclohexane	5.0	U	5.0		ug/L			03/31/17 20:02	5
Methylene Chloride	25	U	25		ug/L			03/31/17 20:02	5
Naphthalene	25	U	25		ug/L			03/31/17 20:02	5
Styrene	5.0	U	5.0		ug/L			03/31/17 20:02	5
Tetrachloroethene	**140**		5.0		ug/L			03/31/17 20:02	5
Toluene	5.0	U	5.0		ug/L			03/31/17 20:02	5
trans-1,2-Dichloroethene	5.0	U	5.0		ug/L			03/31/17 20:02	5
trans-1,3-Dichloropropene	5.0	U	5.0		ug/L			03/31/17 20:02	5
Trichloroethene	**460**		5.0		ug/L			03/31/17 20:02	5
Trichlorofluoromethane	5.0	U	5.0		ug/L			03/31/17 20:02	5
Vinyl chloride	5.0	U	5.0		ug/L			03/31/17 20:02	5
Xylenes, Total	5.0	U	5.0		ug/L			03/31/17 20:02	5

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-7
Date Collected: 03/22/17 11:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-12
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		03/31/17 20:02	5
Dibromofluoromethane (Surr)	96		80 - 122		03/31/17 20:02	5
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		03/31/17 20:02	5
Toluene-d8 (Surr)	99		80 - 120		03/31/17 20:02	5

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-8
Date Collected: 03/23/17 12:45
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 16:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/31/17 16:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			03/31/17 16:35	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 16:35	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/31/17 16:35	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 16:35	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			03/31/17 16:35	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/31/17 16:35	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			03/31/17 16:35	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 16:35	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/31/17 16:35	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/31/17 16:35	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 16:35	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 16:35	1
2-Butanone	10	U	10		ug/L			03/31/17 16:35	1
2-Hexanone	10	U	10		ug/L			03/31/17 16:35	1
4-Methyl-2-pentanone	10	U	10		ug/L			03/31/17 16:35	1
Acetone	10	U	10		ug/L			03/31/17 16:35	1
Benzene	1.0	U	1.0		ug/L			03/31/17 16:35	1
Bromodichloromethane	1.0	U	1.0		ug/L			03/31/17 16:35	1
Bromoform	1.0	U	1.0		ug/L			03/31/17 16:35	1
Bromomethane	5.0	U	5.0		ug/L			03/31/17 16:35	1
Carbon disulfide	2.0	U	2.0		ug/L			03/31/17 16:35	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/31/17 16:35	1
Chlorobenzene	1.0	U	1.0		ug/L			03/31/17 16:35	1
Chloroethane	5.0	U	5.0		ug/L			03/31/17 16:35	1
Chloroform	1.0	U	1.0		ug/L			03/31/17 16:35	1
Chloromethane	1.0	U	1.0		ug/L			03/31/17 16:35	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 16:35	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 16:35	1
Cyclohexane	1.0	U	1.0		ug/L			03/31/17 16:35	1
Dibromochloromethane	1.0	U	1.0		ug/L			03/31/17 16:35	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			03/31/17 16:35	1
Ethylbenzene	1.0	U	1.0		ug/L			03/31/17 16:35	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/31/17 16:35	1
Methyl acetate	5.0	U	5.0		ug/L			03/31/17 16:35	1
Methyl tert-butyl ether	10	U	10		ug/L			03/31/17 16:35	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/31/17 16:35	1
Methylene Chloride	5.0	U	5.0		ug/L			03/31/17 16:35	1
Naphthalene	5.0	U	5.0		ug/L			03/31/17 16:35	1
Styrene	1.0	U	1.0		ug/L			03/31/17 16:35	1
Tetrachloroethene	1.0	U	1.0		ug/L			03/31/17 16:35	1
Toluene	1.0	U	1.0		ug/L			03/31/17 16:35	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 16:35	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 16:35	1
Trichloroethene	1.0	U	1.0		ug/L			03/31/17 16:35	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			03/31/17 16:35	1
Vinyl chloride	1.0	U	1.0		ug/L			03/31/17 16:35	1
Xylenes, Total	1.0	U	1.0		ug/L			03/31/17 16:35	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-8
Date Collected: 03/23/17 12:45
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-13
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		03/31/17 16:35	1
Dibromofluoromethane (Surr)	98		80 - 122		03/31/17 16:35	1
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		03/31/17 16:35	1
Toluene-d8 (Surr)	99		80 - 120		03/31/17 16:35	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-9
Date Collected: 03/22/17 17:20
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 16:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/31/17 16:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			03/31/17 16:58	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 16:58	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/31/17 16:58	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 16:58	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			03/31/17 16:58	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/31/17 16:58	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			03/31/17 16:58	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 16:58	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/31/17 16:58	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/31/17 16:58	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 16:58	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 16:58	1
2-Butanone	10	U	10		ug/L			03/31/17 16:58	1
2-Hexanone	10	U	10		ug/L			03/31/17 16:58	1
4-Methyl-2-pentanone	10	U	10		ug/L			03/31/17 16:58	1
Acetone	10	U	10		ug/L			03/31/17 16:58	1
Benzene	1.0	U	1.0		ug/L			03/31/17 16:58	1
Bromodichloromethane	1.0	U	1.0		ug/L			03/31/17 16:58	1
Bromoform	1.0	U	1.0		ug/L			03/31/17 16:58	1
Bromomethane	5.0	U	5.0		ug/L			03/31/17 16:58	1
Carbon disulfide	2.0	U	2.0		ug/L			03/31/17 16:58	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/31/17 16:58	1
Chlorobenzene	1.0	U	1.0		ug/L			03/31/17 16:58	1
Chloroethane	5.0	U	5.0		ug/L			03/31/17 16:58	1
Chloroform	1.0	U	1.0		ug/L			03/31/17 16:58	1
Chloromethane	1.0	U	1.0		ug/L			03/31/17 16:58	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 16:58	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 16:58	1
Cyclohexane	1.0	U	1.0		ug/L			03/31/17 16:58	1
Dibromochloromethane	1.0	U	1.0		ug/L			03/31/17 16:58	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			03/31/17 16:58	1
Ethylbenzene	1.0	U	1.0		ug/L			03/31/17 16:58	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/31/17 16:58	1
Methyl acetate	5.0	U	5.0		ug/L			03/31/17 16:58	1
Methyl tert-butyl ether	10	U	10		ug/L			03/31/17 16:58	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/31/17 16:58	1
Methylene Chloride	5.0	U	5.0		ug/L			03/31/17 16:58	1
Naphthalene	5.0	U	5.0		ug/L			03/31/17 16:58	1
Styrene	1.0	U	1.0		ug/L			03/31/17 16:58	1
Tetrachloroethene	1.0	U	1.0		ug/L			03/31/17 16:58	1
Toluene	1.0	U	1.0		ug/L			03/31/17 16:58	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 16:58	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 16:58	1
Trichloroethene	1.0	U	1.0		ug/L			03/31/17 16:58	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			03/31/17 16:58	1
Vinyl chloride	1.0	U	1.0		ug/L			03/31/17 16:58	1
Xylenes, Total	1.0	U	1.0		ug/L			03/31/17 16:58	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-9
Date Collected: 03/22/17 17:20
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-14
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		03/31/17 16:58	1
Dibromofluoromethane (Surr)	99		80 - 122		03/31/17 16:58	1
1,2-Dichloroethane-d4 (Surr)	96		73 - 131		03/31/17 16:58	1
Toluene-d8 (Surr)	99		80 - 120		03/31/17 16:58	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-10
Date Collected: 03/22/17 15:45
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-15
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**14**		10		ug/L			03/31/17 20:25	10
1,1,2,2-Tetrachloroethane	10	U	10		ug/L			03/31/17 20:25	10
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10		ug/L			03/31/17 20:25	10
1,1,2-Trichloroethane	10	U	10		ug/L			03/31/17 20:25	10
1,1-Dichloroethane	**49**		10		ug/L			03/31/17 20:25	10
1,1-Dichloroethene	**130**		10		ug/L			03/31/17 20:25	10
1,2,4-Trichlorobenzene	50	U	50		ug/L			03/31/17 20:25	10
1,2-Dibromo-3-Chloropropane	50	U	50		ug/L			03/31/17 20:25	10
1,2-Dibromoethane	10	U	10		ug/L			03/31/17 20:25	10
1,2-Dichlorobenzene	**320**		10		ug/L			03/31/17 20:25	10
1,2-Dichloroethane	**52**		10		ug/L			03/31/17 20:25	10
1,2-Dichloropropane	10	U	10		ug/L			03/31/17 20:25	10
1,3-Dichlorobenzene	**71**		10		ug/L			03/31/17 20:25	10
1,4-Dichlorobenzene	**70**		10		ug/L			03/31/17 20:25	10
2-Butanone	100	U	100		ug/L			03/31/17 20:25	10
2-Hexanone	100	U	100		ug/L			03/31/17 20:25	10
4-Methyl-2-pentanone	100	U	100		ug/L			03/31/17 20:25	10
Acetone	100	U	100		ug/L			03/31/17 20:25	10
Benzene	10	U	10		ug/L			03/31/17 20:25	10
Bromodichloromethane	10	U	10		ug/L			03/31/17 20:25	10
Bromoform	10	U	10		ug/L			03/31/17 20:25	10
Bromomethane	50	U	50		ug/L			03/31/17 20:25	10
Carbon disulfide	20	U	20		ug/L			03/31/17 20:25	10
Carbon tetrachloride	10	U	10		ug/L			03/31/17 20:25	10
Chlorobenzene	**16**		10		ug/L			03/31/17 20:25	10
Chloroethane	50	U	50		ug/L			03/31/17 20:25	10
Chloroform	10	U	10		ug/L			03/31/17 20:25	10
Chloromethane	10	U	10		ug/L			03/31/17 20:25	10
cis-1,2-Dichloroethene	**860**		10		ug/L			03/31/17 20:25	10
cis-1,3-Dichloropropene	10	U	10		ug/L			03/31/17 20:25	10
Cyclohexane	10	U	10		ug/L			03/31/17 20:25	10
Dibromochloromethane	10	U	10		ug/L			03/31/17 20:25	10
Dichlorodifluoromethane	10	U	10		ug/L			03/31/17 20:25	10
Ethylbenzene	10	U	10		ug/L			03/31/17 20:25	10
Isopropylbenzene	10	U	10		ug/L			03/31/17 20:25	10
Methyl acetate	50	U	50		ug/L			03/31/17 20:25	10
Methyl tert-butyl ether	100	U	100		ug/L			03/31/17 20:25	10
Methylcyclohexane	10	U	10		ug/L			03/31/17 20:25	10
Methylene Chloride	50	U	50		ug/L			03/31/17 20:25	10
Naphthalene	50	U	50		ug/L			03/31/17 20:25	10
Styrene	10	U	10		ug/L			03/31/17 20:25	10
Tetrachloroethene	**490**		10		ug/L			03/31/17 20:25	10
Toluene	10	U	10		ug/L			03/31/17 20:25	10
trans-1,2-Dichloroethene	10	U	10		ug/L			03/31/17 20:25	10
trans-1,3-Dichloropropene	10	U	10		ug/L			03/31/17 20:25	10
Trichloroethene	**530**		10		ug/L			03/31/17 20:25	10
Trichlorofluoromethane	10	U	10		ug/L			03/31/17 20:25	10
Vinyl chloride	**180**		10		ug/L			03/31/17 20:25	10
Xylenes, Total	10	U	10		ug/L			03/31/17 20:25	10

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-10
Date Collected: 03/22/17 15:45
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-15
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		03/31/17 20:25	10
Dibromofluoromethane (Surr)	97		80 - 122		03/31/17 20:25	10
1,2-Dichloroethane-d4 (Surr)	93		73 - 131		03/31/17 20:25	10
Toluene-d8 (Surr)	101		80 - 120		03/31/17 20:25	10

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-11
Date Collected: 03/22/17 10:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-16
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 17:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/31/17 17:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			03/31/17 17:21	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 17:21	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/31/17 17:21	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 17:21	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			03/31/17 17:21	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/31/17 17:21	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			03/31/17 17:21	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 17:21	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/31/17 17:21	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/31/17 17:21	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 17:21	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 17:21	1
2-Butanone	10	U	10		ug/L			03/31/17 17:21	1
2-Hexanone	10	U	10		ug/L			03/31/17 17:21	1
4-Methyl-2-pentanone	10	U	10		ug/L			03/31/17 17:21	1
Acetone	10	U	10		ug/L			03/31/17 17:21	1
Benzene	1.0	U	1.0		ug/L			03/31/17 17:21	1
Bromodichloromethane	1.0	U	1.0		ug/L			03/31/17 17:21	1
Bromoform	1.0	U	1.0		ug/L			03/31/17 17:21	1
Bromomethane	5.0	U	5.0		ug/L			03/31/17 17:21	1
Carbon disulfide	2.0	U	2.0		ug/L			03/31/17 17:21	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/31/17 17:21	1
Chlorobenzene	1.0	U	1.0		ug/L			03/31/17 17:21	1
Chloroethane	5.0	U	5.0		ug/L			03/31/17 17:21	1
Chloroform	**1.6**		1.0		ug/L			03/31/17 17:21	1
Chloromethane	1.0	U	1.0		ug/L			03/31/17 17:21	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 17:21	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 17:21	1
Cyclohexane	1.0	U	1.0		ug/L			03/31/17 17:21	1
Dibromochloromethane	1.0	U	1.0		ug/L			03/31/17 17:21	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			03/31/17 17:21	1
Ethylbenzene	1.0	U	1.0		ug/L			03/31/17 17:21	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/31/17 17:21	1
Methyl acetate	5.0	U	5.0		ug/L			03/31/17 17:21	1
Methyl tert-butyl ether	10	U	10		ug/L			03/31/17 17:21	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/31/17 17:21	1
Methylene Chloride	5.0	U	5.0		ug/L			03/31/17 17:21	1
Naphthalene	5.0	U	5.0		ug/L			03/31/17 17:21	1
Styrene	1.0	U	1.0		ug/L			03/31/17 17:21	1
Tetrachloroethene	1.0	U	1.0		ug/L			03/31/17 17:21	1
Toluene	1.0	U	1.0		ug/L			03/31/17 17:21	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 17:21	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 17:21	1
Trichloroethene	1.0	U	1.0		ug/L			03/31/17 17:21	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			03/31/17 17:21	1
Vinyl chloride	1.0	U	1.0		ug/L			03/31/17 17:21	1
Xylenes, Total	1.0	U	1.0		ug/L			03/31/17 17:21	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-11
Date Collected: 03/22/17 10:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-16
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		03/31/17 17:21	1
Dibromofluoromethane (Surr)	98		80 - 122		03/31/17 17:21	1
1,2-Dichloroethane-d4 (Surr)	97		73 - 131		03/31/17 17:21	1
Toluene-d8 (Surr)	100		80 - 120		03/31/17 17:21	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-13
Date Collected: 03/22/17 12:00
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-17
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**11**		10		ug/L			03/31/17 20:48	10
1,1,2,2-Tetrachloroethane	10	U	10		ug/L			03/31/17 20:48	10
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10		ug/L			03/31/17 20:48	10
1,1,2-Trichloroethane	10	U	10		ug/L			03/31/17 20:48	10
1,1-Dichloroethane	10	U	10		ug/L			03/31/17 20:48	10
1,1-Dichloroethene	**310**		10		ug/L			03/31/17 20:48	10
1,2,4-Trichlorobenzene	50	U	50		ug/L			03/31/17 20:48	10
1,2-Dibromo-3-Chloropropane	50	U	50		ug/L			03/31/17 20:48	10
1,2-Dibromoethane	10	U	10		ug/L			03/31/17 20:48	10
1,2-Dichlorobenzene	10	U	10		ug/L			03/31/17 20:48	10
1,2-Dichloroethane	**150**		10		ug/L			03/31/17 20:48	10
1,2-Dichloropropane	10	U	10		ug/L			03/31/17 20:48	10
1,3-Dichlorobenzene	10	U	10		ug/L			03/31/17 20:48	10
1,4-Dichlorobenzene	10	U	10		ug/L			03/31/17 20:48	10
2-Butanone	100	U	100		ug/L			03/31/17 20:48	10
2-Hexanone	100	U	100		ug/L			03/31/17 20:48	10
4-Methyl-2-pentanone	100	U	100		ug/L			03/31/17 20:48	10
Acetone	100	U	100		ug/L			03/31/17 20:48	10
Benzene	10	U	10		ug/L			03/31/17 20:48	10
Bromodichloromethane	10	U	10		ug/L			03/31/17 20:48	10
Bromoform	10	U	10		ug/L			03/31/17 20:48	10
Bromomethane	50	U	50		ug/L			03/31/17 20:48	10
Carbon disulfide	20	U	20		ug/L			03/31/17 20:48	10
Carbon tetrachloride	10	U	10		ug/L			03/31/17 20:48	10
Chlorobenzene	10	U	10		ug/L			03/31/17 20:48	10
Chloroethane	50	U	50		ug/L			03/31/17 20:48	10
Chloroform	10	U	10		ug/L			03/31/17 20:48	10
Chloromethane	10	U	10		ug/L			03/31/17 20:48	10
cis-1,2-Dichloroethene	**510**		10		ug/L			03/31/17 20:48	10
cis-1,3-Dichloropropene	10	U	10		ug/L			03/31/17 20:48	10
Cyclohexane	10	U	10		ug/L			03/31/17 20:48	10
Dibromochloromethane	10	U	10		ug/L			03/31/17 20:48	10
Dichlorodifluoromethane	10	U	10		ug/L			03/31/17 20:48	10
Ethylbenzene	10	U	10		ug/L			03/31/17 20:48	10
Isopropylbenzene	10	U	10		ug/L			03/31/17 20:48	10
Methyl acetate	50	U	50		ug/L			03/31/17 20:48	10
Methyl tert-butyl ether	100	U	100		ug/L			03/31/17 20:48	10
Methylcyclohexane	10	U	10		ug/L			03/31/17 20:48	10
Methylene Chloride	50	U	50		ug/L			03/31/17 20:48	10
Naphthalene	50	U	50		ug/L			03/31/17 20:48	10
Styrene	10	U	10		ug/L			03/31/17 20:48	10
Tetrachloroethene	**170**		10		ug/L			03/31/17 20:48	10
Toluene	10	U	10		ug/L			03/31/17 20:48	10
trans-1,2-Dichloroethene	10	U	10		ug/L			03/31/17 20:48	10
trans-1,3-Dichloropropene	10	U	10		ug/L			03/31/17 20:48	10
Trichloroethene	**470**		10		ug/L			03/31/17 20:48	10
Trichlorofluoromethane	10	U	10		ug/L			03/31/17 20:48	10
Vinyl chloride	10	U	10		ug/L			03/31/17 20:48	10
Xylenes, Total	10	U	10		ug/L			03/31/17 20:48	10

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-13
Date Collected: 03/22/17 12:00
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-17
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		03/31/17 20:48	10
Dibromofluoromethane (Surr)	98		80 - 122		03/31/17 20:48	10
1,2-Dichloroethane-d4 (Surr)	93		73 - 131		03/31/17 20:48	10
Toluene-d8 (Surr)	101		80 - 120		03/31/17 20:48	10

Client Sample ID: YMW-15

Date Collected: 03/22/17 14:50
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-18

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	20	U	20		ug/L			04/03/17 12:03	20
1,1,2,2-Tetrachloroethane	20	U	20		ug/L			04/03/17 12:03	20
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20		ug/L			04/03/17 12:03	20
1,1,2-Trichloroethane	20	U	20		ug/L			04/03/17 12:03	20
1,1-Dichloroethane	**59**		20		ug/L			04/03/17 12:03	20
1,1-Dichloroethene	**290**		20		ug/L			04/03/17 12:03	20
1,2,4-Trichlorobenzene	100	U	100		ug/L			04/03/17 12:03	20
1,2-Dibromo-3-Chloropropane	100	U	100		ug/L			04/03/17 12:03	20
1,2-Dibromoethane	20	U	20		ug/L			04/03/17 12:03	20
1,2-Dichlorobenzene	**130**		20		ug/L			04/03/17 12:03	20
1,2-Dichloroethane	**120**		20		ug/L			04/03/17 12:03	20
1,2-Dichloropropane	20	U	20		ug/L			04/03/17 12:03	20
1,3-Dichlorobenzene	**36**		20		ug/L			04/03/17 12:03	20
1,4-Dichlorobenzene	**33**		20		ug/L			04/03/17 12:03	20
2-Butanone	200	U	200		ug/L			04/03/17 12:03	20
2-Hexanone	200	U	200		ug/L			04/03/17 12:03	20
4-Methyl-2-pentanone	200	U	200		ug/L			04/03/17 12:03	20
Acetone	200	U	200		ug/L			04/03/17 12:03	20
Benzene	20	U	20		ug/L			04/03/17 12:03	20
Bromodichloromethane	20	U	20		ug/L			04/03/17 12:03	20
Bromoform	20	U	20		ug/L			04/03/17 12:03	20
Bromomethane	100	U	100		ug/L			04/03/17 12:03	20
Carbon disulfide	40	U	40		ug/L			04/03/17 12:03	20
Carbon tetrachloride	20	U	20		ug/L			04/03/17 12:03	20
Chlorobenzene	20	U	20		ug/L			04/03/17 12:03	20
Chloroethane	100	U	100		ug/L			04/03/17 12:03	20
Chloroform	20	U	20		ug/L			04/03/17 12:03	20
Chloromethane	20	U	20		ug/L			04/03/17 12:03	20
cis-1,2-Dichloroethene	**1600**		20		ug/L			04/03/17 12:03	20
cis-1,3-Dichloropropene	20	U	20		ug/L			04/03/17 12:03	20
Cyclohexane	20	U	20		ug/L			04/03/17 12:03	20
Dibromochloromethane	20	U	20		ug/L			04/03/17 12:03	20
Dichlorodifluoromethane	20	U	20		ug/L			04/03/17 12:03	20
Ethylbenzene	20	U	20		ug/L			04/03/17 12:03	20
Isopropylbenzene	20	U	20		ug/L			04/03/17 12:03	20
Methyl acetate	100	U	100		ug/L			04/03/17 12:03	20
Methyl tert-butyl ether	200	U	200		ug/L			04/03/17 12:03	20
Methylcyclohexane	20	U	20		ug/L			04/03/17 12:03	20
Methylene Chloride	100	U	100		ug/L			04/03/17 12:03	20
Naphthalene	100	U	100		ug/L			04/03/17 12:03	20
Styrene	20	U	20		ug/L			04/03/17 12:03	20
Tetrachloroethene	**950**		20		ug/L			04/03/17 12:03	20
Toluene	20	U	20		ug/L			04/03/17 12:03	20
trans-1,2-Dichloroethene	20	U	20		ug/L			04/03/17 12:03	20
trans-1,3-Dichloropropene	20	U	20		ug/L			04/03/17 12:03	20
Trichloroethene	**830**		20		ug/L			04/03/17 12:03	20
Trichlorofluoromethane	20	U	20		ug/L			04/03/17 12:03	20
Vinyl chloride	**24**		20		ug/L			04/03/17 12:03	20
Xylenes, Total	20	U	20		ug/L			04/03/17 12:03	20

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-15
Date Collected: 03/22/17 14:50
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-18
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		04/03/17 12:03	20
Dibromofluoromethane (Surr)	98		80 - 122		04/03/17 12:03	20
1,2-Dichloroethane-d4 (Surr)	93		73 - 131		04/03/17 12:03	20
Toluene-d8 (Surr)	101		80 - 120		04/03/17 12:03	20

Client Sample ID: YMW-14

Date Collected: 03/22/17 15:55
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-19

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			04/03/17 12:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			04/03/17 12:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			04/03/17 12:26	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			04/03/17 12:26	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			04/03/17 12:26	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 12:26	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			04/03/17 12:26	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			04/03/17 12:26	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			04/03/17 12:26	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 12:26	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			04/03/17 12:26	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			04/03/17 12:26	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 12:26	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 12:26	1
2-Butanone	10	U	10		ug/L			04/03/17 12:26	1
2-Hexanone	10	U	10		ug/L			04/03/17 12:26	1
4-Methyl-2-pentanone	10	U	10		ug/L			04/03/17 12:26	1
Acetone	10	U	10		ug/L			04/03/17 12:26	1
Benzene	1.0	U	1.0		ug/L			04/03/17 12:26	1
Bromodichloromethane	1.0	U	1.0		ug/L			04/03/17 12:26	1
Bromoform	1.0	U	1.0		ug/L			04/03/17 12:26	1
Bromomethane	5.0	U	5.0		ug/L			04/03/17 12:26	1
Carbon disulfide	2.0	U	2.0		ug/L			04/03/17 12:26	1
Carbon tetrachloride	1.0	U	1.0		ug/L			04/03/17 12:26	1
Chlorobenzene	1.0	U	1.0		ug/L			04/03/17 12:26	1
Chloroethane	5.0	U	5.0		ug/L			04/03/17 12:26	1
Chloroform	1.0	U	1.0		ug/L			04/03/17 12:26	1
Chloromethane	1.0	U	1.0		ug/L			04/03/17 12:26	1
cis-1,2-Dichloroethene	**33**		1.0		ug/L			04/03/17 12:26	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 12:26	1
Cyclohexane	1.0	U	1.0		ug/L			04/03/17 12:26	1
Dibromochloromethane	1.0	U	1.0		ug/L			04/03/17 12:26	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			04/03/17 12:26	1
Ethylbenzene	1.0	U	1.0		ug/L			04/03/17 12:26	1
Isopropylbenzene	1.0	U	1.0		ug/L			04/03/17 12:26	1
Methyl acetate	5.0	U	5.0		ug/L			04/03/17 12:26	1
Methyl tert-butyl ether	10	U	10		ug/L			04/03/17 12:26	1
Methylcyclohexane	1.0	U	1.0		ug/L			04/03/17 12:26	1
Methylene Chloride	5.0	U	5.0		ug/L			04/03/17 12:26	1
Naphthalene	5.0	U	5.0		ug/L			04/03/17 12:26	1
Styrene	1.0	U	1.0		ug/L			04/03/17 12:26	1
Tetrachloroethene	**100**		1.0		ug/L			04/03/17 12:26	1
Toluene	1.0	U	1.0		ug/L			04/03/17 12:26	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 12:26	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 12:26	1
Trichloroethene	**14**		1.0		ug/L			04/03/17 12:26	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			04/03/17 12:26	1
Vinyl chloride	1.0	U	1.0		ug/L			04/03/17 12:26	1
Xylenes, Total	1.0	U	1.0		ug/L			04/03/17 12:26	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-14
Date Collected: 03/22/17 15:55
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-19
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		04/03/17 12:26	1
Dibromofluoromethane (Surr)	98		80 - 122		04/03/17 12:26	1
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		04/03/17 12:26	1
Toluene-d8 (Surr)	100		80 - 120		04/03/17 12:26	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-16
Date Collected: 03/22/17 14:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-20
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0		ug/L			04/03/17 15:30	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/L			04/03/17 15:30	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0		ug/L			04/03/17 15:30	5
1,1,2-Trichloroethane	5.0	U	5.0		ug/L			04/03/17 15:30	5
1,1-Dichloroethane	**16**		5.0		ug/L			04/03/17 15:30	5
1,1-Dichloroethene	**91**		5.0		ug/L			04/03/17 15:30	5
1,2,4-Trichlorobenzene	25	U	25		ug/L			04/03/17 15:30	5
1,2-Dibromo-3-Chloropropane	25	U	25		ug/L			04/03/17 15:30	5
1,2-Dibromoethane	5.0	U	5.0		ug/L			04/03/17 15:30	5
1,2-Dichlorobenzene	5.0	U	5.0		ug/L			04/03/17 15:30	5
1,2-Dichloroethane	**18**		5.0		ug/L			04/03/17 15:30	5
1,2-Dichloropropane	5.0	U	5.0		ug/L			04/03/17 15:30	5
1,3-Dichlorobenzene	5.0	U	5.0		ug/L			04/03/17 15:30	5
1,4-Dichlorobenzene	5.0	U	5.0		ug/L			04/03/17 15:30	5
2-Butanone	50	U	50		ug/L			04/03/17 15:30	5
2-Hexanone	50	U	50		ug/L			04/03/17 15:30	5
4-Methyl-2-pentanone	50	U	50		ug/L			04/03/17 15:30	5
Acetone	50	U	50		ug/L			04/03/17 15:30	5
Benzene	5.0	U	5.0		ug/L			04/03/17 15:30	5
Bromodichloromethane	5.0	U	5.0		ug/L			04/03/17 15:30	5
Bromoform	5.0	U	5.0		ug/L			04/03/17 15:30	5
Bromomethane	25	U	25		ug/L			04/03/17 15:30	5
Carbon disulfide	10	U	10		ug/L			04/03/17 15:30	5
Carbon tetrachloride	5.0	U	5.0		ug/L			04/03/17 15:30	5
Chlorobenzene	5.0	U	5.0		ug/L			04/03/17 15:30	5
Chloroethane	25	U	25		ug/L			04/03/17 15:30	5
Chloroform	5.0	U	5.0		ug/L			04/03/17 15:30	5
Chloromethane	5.0	U	5.0		ug/L			04/03/17 15:30	5
cis-1,2-Dichloroethene	**370**		5.0		ug/L			04/03/17 15:30	5
cis-1,3-Dichloropropene	5.0	U	5.0		ug/L			04/03/17 15:30	5
Cyclohexane	5.0	U	5.0		ug/L			04/03/17 15:30	5
Dibromochloromethane	5.0	U	5.0		ug/L			04/03/17 15:30	5
Dichlorodifluoromethane	5.0	U	5.0		ug/L			04/03/17 15:30	5
Ethylbenzene	5.0	U	5.0		ug/L			04/03/17 15:30	5
Isopropylbenzene	5.0	U	5.0		ug/L			04/03/17 15:30	5
Methyl acetate	25	U	25		ug/L			04/03/17 15:30	5
Methyl tert-butyl ether	50	U	50		ug/L			04/03/17 15:30	5
Methylcyclohexane	5.0	U	5.0		ug/L			04/03/17 15:30	5
Methylene Chloride	25	U	25		ug/L			04/03/17 15:30	5
Naphthalene	25	U	25		ug/L			04/03/17 15:30	5
Styrene	5.0	U	5.0		ug/L			04/03/17 15:30	5
Tetrachloroethene	**380**		5.0		ug/L			04/03/17 15:30	5
Toluene	5.0	U	5.0		ug/L			04/03/17 15:30	5
trans-1,2-Dichloroethene	5.0	U	5.0		ug/L			04/03/17 15:30	5
trans-1,3-Dichloropropene	5.0	U	5.0		ug/L			04/03/17 15:30	5
Trichloroethene	**290**		5.0		ug/L			04/03/17 15:30	5
Trichlorofluoromethane	5.0	U	5.0		ug/L			04/03/17 15:30	5
Vinyl chloride	5.0	U	5.0		ug/L			04/03/17 15:30	5
Xylenes, Total	5.0	U	5.0		ug/L			04/03/17 15:30	5

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-16
Date Collected: 03/22/17 14:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-20
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		04/03/17 15:30	5
Dibromofluoromethane (Surr)	97		80 - 122		04/03/17 15:30	5
1,2-Dichloroethane-d4 (Surr)	93		73 - 131		04/03/17 15:30	5
Toluene-d8 (Surr)	99		80 - 120		04/03/17 15:30	5

Client Sample ID: YMW-17

Date Collected: 03/23/17 10:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-21

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			04/03/17 12:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			04/03/17 12:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			04/03/17 12:49	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			04/03/17 12:49	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			04/03/17 12:49	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 12:49	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			04/03/17 12:49	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			04/03/17 12:49	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			04/03/17 12:49	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 12:49	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			04/03/17 12:49	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			04/03/17 12:49	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 12:49	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 12:49	1
2-Butanone	10	U	10		ug/L			04/03/17 12:49	1
2-Hexanone	10	U	10		ug/L			04/03/17 12:49	1
4-Methyl-2-pentanone	10	U	10		ug/L			04/03/17 12:49	1
Acetone	10	U	10		ug/L			04/03/17 12:49	1
Benzene	1.0	U	1.0		ug/L			04/03/17 12:49	1
Bromodichloromethane	1.0	U	1.0		ug/L			04/03/17 12:49	1
Bromoform	1.0	U	1.0		ug/L			04/03/17 12:49	1
Bromomethane	5.0	U	5.0		ug/L			04/03/17 12:49	1
Carbon disulfide	2.0	U	2.0		ug/L			04/03/17 12:49	1
Carbon tetrachloride	1.0	U	1.0		ug/L			04/03/17 12:49	1
Chlorobenzene	1.0	U	1.0		ug/L			04/03/17 12:49	1
Chloroethane	5.0	U	5.0		ug/L			04/03/17 12:49	1
Chloroform	1.0	U	1.0		ug/L			04/03/17 12:49	1
Chloromethane	1.0	U	1.0		ug/L			04/03/17 12:49	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 12:49	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 12:49	1
Cyclohexane	1.0	U	1.0		ug/L			04/03/17 12:49	1
Dibromochloromethane	1.0	U	1.0		ug/L			04/03/17 12:49	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			04/03/17 12:49	1
Ethylbenzene	1.0	U	1.0		ug/L			04/03/17 12:49	1
Isopropylbenzene	1.0	U	1.0		ug/L			04/03/17 12:49	1
Methyl acetate	5.0	U	5.0		ug/L			04/03/17 12:49	1
Methyl tert-butyl ether	10	U	10		ug/L			04/03/17 12:49	1
Methylcyclohexane	1.0	U	1.0		ug/L			04/03/17 12:49	1
Methylene Chloride	5.0	U	5.0		ug/L			04/03/17 12:49	1
Naphthalene	5.0	U	5.0		ug/L			04/03/17 12:49	1
Styrene	1.0	U	1.0		ug/L			04/03/17 12:49	1
Tetrachloroethene	1.0	U	1.0		ug/L			04/03/17 12:49	1
Toluene	1.0	U	1.0		ug/L			04/03/17 12:49	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 12:49	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 12:49	1
Trichloroethene	1.0	U	1.0		ug/L			04/03/17 12:49	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			04/03/17 12:49	1
Vinyl chloride	1.0	U	1.0		ug/L			04/03/17 12:49	1
Xylenes, Total	1.0	U	1.0		ug/L			04/03/17 12:49	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-17
Date Collected: 03/23/17 10:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-21
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		04/03/17 12:49	1
Dibromofluoromethane (Surr)	100		80 - 122		04/03/17 12:49	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		04/03/17 12:49	1
Toluene-d8 (Surr)	101		80 - 120		04/03/17 12:49	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-18
Date Collected: 03/23/17 11:30
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-22
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			04/03/17 13:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			04/03/17 13:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			04/03/17 13:12	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			04/03/17 13:12	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			04/03/17 13:12	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 13:12	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			04/03/17 13:12	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			04/03/17 13:12	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			04/03/17 13:12	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 13:12	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			04/03/17 13:12	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			04/03/17 13:12	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 13:12	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 13:12	1
2-Butanone	10	U	10		ug/L			04/03/17 13:12	1
2-Hexanone	10	U	10		ug/L			04/03/17 13:12	1
4-Methyl-2-pentanone	10	U	10		ug/L			04/03/17 13:12	1
Acetone	10	U	10		ug/L			04/03/17 13:12	1
Benzene	1.0	U	1.0		ug/L			04/03/17 13:12	1
Bromodichloromethane	1.0	U	1.0		ug/L			04/03/17 13:12	1
Bromoform	1.0	U	1.0		ug/L			04/03/17 13:12	1
Bromomethane	5.0	U	5.0		ug/L			04/03/17 13:12	1
Carbon disulfide	2.0	U	2.0		ug/L			04/03/17 13:12	1
Carbon tetrachloride	1.0	U	1.0		ug/L			04/03/17 13:12	1
Chlorobenzene	1.0	U	1.0		ug/L			04/03/17 13:12	1
Chloroethane	5.0	U	5.0		ug/L			04/03/17 13:12	1
Chloroform	1.0	U	1.0		ug/L			04/03/17 13:12	1
Chloromethane	1.0	U	1.0		ug/L			04/03/17 13:12	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 13:12	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 13:12	1
Cyclohexane	1.0	U	1.0		ug/L			04/03/17 13:12	1
Dibromochloromethane	1.0	U	1.0		ug/L			04/03/17 13:12	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			04/03/17 13:12	1
Ethylbenzene	1.0	U	1.0		ug/L			04/03/17 13:12	1
Isopropylbenzene	1.0	U	1.0		ug/L			04/03/17 13:12	1
Methyl acetate	5.0	U	5.0		ug/L			04/03/17 13:12	1
Methyl tert-butyl ether	10	U	10		ug/L			04/03/17 13:12	1
Methylcyclohexane	1.0	U	1.0		ug/L			04/03/17 13:12	1
Methylene Chloride	5.0	U	5.0		ug/L			04/03/17 13:12	1
Naphthalene	5.0	U	5.0		ug/L			04/03/17 13:12	1
Styrene	1.0	U	1.0		ug/L			04/03/17 13:12	1
Tetrachloroethene	1.0	U	1.0		ug/L			04/03/17 13:12	1
Toluene	1.0	U	1.0		ug/L			04/03/17 13:12	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 13:12	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 13:12	1
Trichloroethene	1.0	U	1.0		ug/L			04/03/17 13:12	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			04/03/17 13:12	1
Vinyl chloride	1.0	U	1.0		ug/L			04/03/17 13:12	1
Xylenes, Total	1.0	U	1.0		ug/L			04/03/17 13:12	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-18
Date Collected: 03/23/17 11:30
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-22
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		04/03/17 13:12	1
Dibromofluoromethane (Surr)	97		80 - 122		04/03/17 13:12	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		04/03/17 13:12	1
Toluene-d8 (Surr)	100		80 - 120		04/03/17 13:12	1

Client Sample ID: YMW-19

Date Collected: 03/21/17 09:40
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-23

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			04/03/17 13:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			04/03/17 13:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			04/03/17 13:35	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			04/03/17 13:35	1
1,1-Dichloroethane	**12**		1.0		ug/L			04/03/17 13:35	1
1,1-Dichloroethene	**24**		1.0		ug/L			04/03/17 13:35	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			04/03/17 13:35	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			04/03/17 13:35	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			04/03/17 13:35	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 13:35	1
1,2-Dichloroethane	**37**		1.0		ug/L			04/03/17 13:35	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			04/03/17 13:35	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 13:35	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 13:35	1
2-Butanone	10	U	10		ug/L			04/03/17 13:35	1
2-Hexanone	10	U	10		ug/L			04/03/17 13:35	1
4-Methyl-2-pentanone	10	U	10		ug/L			04/03/17 13:35	1
Acetone	10	U	10		ug/L			04/03/17 13:35	1
Benzene	1.0	U	1.0		ug/L			04/03/17 13:35	1
Bromodichloromethane	1.0	U	1.0		ug/L			04/03/17 13:35	1
Bromoform	1.0	U	1.0		ug/L			04/03/17 13:35	1
Bromomethane	5.0	U	5.0		ug/L			04/03/17 13:35	1
Carbon disulfide	2.0	U	2.0		ug/L			04/03/17 13:35	1
Carbon tetrachloride	1.0	U	1.0		ug/L			04/03/17 13:35	1
Chlorobenzene	1.0	U	1.0		ug/L			04/03/17 13:35	1
Chloroethane	5.0	U	5.0		ug/L			04/03/17 13:35	1
Chloroform	1.0	U	1.0		ug/L			04/03/17 13:35	1
Chloromethane	1.0	U	1.0		ug/L			04/03/17 13:35	1
cis-1,2-Dichloroethene	**82**		1.0		ug/L			04/03/17 13:35	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 13:35	1
Cyclohexane	1.0	U	1.0		ug/L			04/03/17 13:35	1
Dibromochloromethane	1.0	U	1.0		ug/L			04/03/17 13:35	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			04/03/17 13:35	1
Ethylbenzene	1.0	U	1.0		ug/L			04/03/17 13:35	1
Isopropylbenzene	1.0	U	1.0		ug/L			04/03/17 13:35	1
Methyl acetate	5.0	U	5.0		ug/L			04/03/17 13:35	1
Methyl tert-butyl ether	10	U	10		ug/L			04/03/17 13:35	1
Methylcyclohexane	1.0	U	1.0		ug/L			04/03/17 13:35	1
Methylene Chloride	5.0	U	5.0		ug/L			04/03/17 13:35	1
Naphthalene	5.0	U	5.0		ug/L			04/03/17 13:35	1
Styrene	1.0	U	1.0		ug/L			04/03/17 13:35	1
Tetrachloroethene	**150**		1.0		ug/L			04/03/17 13:35	1
Toluene	1.0	U	1.0		ug/L			04/03/17 13:35	1
trans-1,2-Dichloroethene	**1.3**		1.0		ug/L			04/03/17 13:35	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 13:35	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			04/03/17 13:35	1
Vinyl chloride	1.0	U	1.0		ug/L			04/03/17 13:35	1
Xylenes, Total	1.0	U	1.0		ug/L			04/03/17 13:35	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-19
Date Collected: 03/21/17 09:40
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-23
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		04/03/17 13:35	1
Dibromofluoromethane (Surr)	97		80 - 122		04/03/17 13:35	1
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		04/03/17 13:35	1
Toluene-d8 (Surr)	100		80 - 120		04/03/17 13:35	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	220		2.0		ug/L			04/04/17 10:08	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		04/04/17 10:08	2
Dibromofluoromethane (Surr)	97		80 - 122		04/04/17 10:08	2
1,2-Dichloroethane-d4 (Surr)	90		73 - 131		04/04/17 10:08	2
Toluene-d8 (Surr)	99		80 - 120		04/04/17 10:08	2

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: DUP-1
Date Collected: 03/22/17 03:00
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-24
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	10	U	10		ug/L			04/03/17 15:53	10
1,1,2,2-Tetrachloroethane	10	U	10		ug/L			04/03/17 15:53	10
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10		ug/L			04/03/17 15:53	10
1,1,2-Trichloroethane	10	U	10		ug/L			04/03/17 15:53	10
1,1-Dichloroethane	**39**		10		ug/L			04/03/17 15:53	10
1,1-Dichloroethene	**100**		10		ug/L			04/03/17 15:53	10
1,2,4-Trichlorobenzene	50	U	50		ug/L			04/03/17 15:53	10
1,2-Dibromo-3-Chloropropane	50	U	50		ug/L			04/03/17 15:53	10
1,2-Dibromoethane	10	U	10		ug/L			04/03/17 15:53	10
1,2-Dichlorobenzene	**240**		10		ug/L			04/03/17 15:53	10
1,2-Dichloroethane	**42**		10		ug/L			04/03/17 15:53	10
1,2-Dichloropropane	10	U	10		ug/L			04/03/17 15:53	10
1,3-Dichlorobenzene	**52**		10		ug/L			04/03/17 15:53	10
1,4-Dichlorobenzene	**53**		10		ug/L			04/03/17 15:53	10
2-Butanone	100	U	100		ug/L			04/03/17 15:53	10
2-Hexanone	100	U	100		ug/L			04/03/17 15:53	10
4-Methyl-2-pentanone	100	U	100		ug/L			04/03/17 15:53	10
Acetone	100	U	100		ug/L			04/03/17 15:53	10
Benzene	10	U	10		ug/L			04/03/17 15:53	10
Bromodichloromethane	10	U	10		ug/L			04/03/17 15:53	10
Bromoform	10	U	10		ug/L			04/03/17 15:53	10
Bromomethane	50	U	50		ug/L			04/03/17 15:53	10
Carbon disulfide	20	U	20		ug/L			04/03/17 15:53	10
Carbon tetrachloride	10	U	10		ug/L			04/03/17 15:53	10
Chlorobenzene	**11**		10		ug/L			04/03/17 15:53	10
Chloroethane	50	U	50		ug/L			04/03/17 15:53	10
Chloroform	10	U	10		ug/L			04/03/17 15:53	10
Chloromethane	10	U	10		ug/L			04/03/17 15:53	10
cis-1,2-Dichloroethene	**690**		10		ug/L			04/03/17 15:53	10
cis-1,3-Dichloropropene	10	U	10		ug/L			04/03/17 15:53	10
Cyclohexane	10	U	10		ug/L			04/03/17 15:53	10
Dibromochloromethane	10	U	10		ug/L			04/03/17 15:53	10
Dichlorodifluoromethane	10	U	10		ug/L			04/03/17 15:53	10
Ethylbenzene	10	U	10		ug/L			04/03/17 15:53	10
Isopropylbenzene	10	U	10		ug/L			04/03/17 15:53	10
Methyl acetate	50	U	50		ug/L			04/03/17 15:53	10
Methyl tert-butyl ether	100	U	100		ug/L			04/03/17 15:53	10
Methylcyclohexane	10	U	10		ug/L			04/03/17 15:53	10
Methylene Chloride	50	U	50		ug/L			04/03/17 15:53	10
Naphthalene	50	U	50		ug/L			04/03/17 15:53	10
Styrene	10	U	10		ug/L			04/03/17 15:53	10
Tetrachloroethene	**400**		10		ug/L			04/03/17 15:53	10
Toluene	10	U	10		ug/L			04/03/17 15:53	10
trans-1,2-Dichloroethene	10	U	10		ug/L			04/03/17 15:53	10
trans-1,3-Dichloropropene	10	U	10		ug/L			04/03/17 15:53	10
Trichloroethene	**430**		10		ug/L			04/03/17 15:53	10
Trichlorofluoromethane	10	U	10		ug/L			04/03/17 15:53	10
Vinyl chloride	**130**		10		ug/L			04/03/17 15:53	10
Xylenes, Total	10	U	10		ug/L			04/03/17 15:53	10

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: DUP-1
Date Collected: 03/22/17 03:00
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-24
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		04/03/17 15:53	10
Dibromofluoromethane (Surr)	99		80 - 122		04/03/17 15:53	10
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		04/03/17 15:53	10
Toluene-d8 (Surr)	100		80 - 120		04/03/17 15:53	10

Client Sample ID: DUP-2

Date Collected: 03/23/17 00:00
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-25

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	20	U	20		ug/L			04/03/17 16:16	20
1,1,2,2-Tetrachloroethane	20	U	20		ug/L			04/03/17 16:16	20
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20		ug/L			04/03/17 16:16	20
1,1,2-Trichloroethane	20	U	20		ug/L			04/03/17 16:16	20
1,1-Dichloroethane	**110**		20		ug/L			04/03/17 16:16	20
1,1-Dichloroethene	**350**		20		ug/L			04/03/17 16:16	20
1,2,4-Trichlorobenzene	100	U	100		ug/L			04/03/17 16:16	20
1,2-Dibromo-3-Chloropropane	100	U	100		ug/L			04/03/17 16:16	20
1,2-Dibromoethane	20	U	20		ug/L			04/03/17 16:16	20
1,2-Dichlorobenzene	**1100**		20		ug/L			04/03/17 16:16	20
1,2-Dichloroethane	**140**		20		ug/L			04/03/17 16:16	20
1,2-Dichloropropane	20	U	20		ug/L			04/03/17 16:16	20
1,3-Dichlorobenzene	**210**		20		ug/L			04/03/17 16:16	20
1,4-Dichlorobenzene	**250**		20		ug/L			04/03/17 16:16	20
2-Butanone	200	U	200		ug/L			04/03/17 16:16	20
2-Hexanone	200	U	200		ug/L			04/03/17 16:16	20
4-Methyl-2-pentanone	200	U	200		ug/L			04/03/17 16:16	20
Acetone	200	U	200		ug/L			04/03/17 16:16	20
Benzene	20	U	20		ug/L			04/03/17 16:16	20
Bromodichloromethane	20	U	20		ug/L			04/03/17 16:16	20
Bromoform	20	U	20		ug/L			04/03/17 16:16	20
Bromomethane	100	U	100		ug/L			04/03/17 16:16	20
Carbon disulfide	40	U	40		ug/L			04/03/17 16:16	20
Carbon tetrachloride	20	U	20		ug/L			04/03/17 16:16	20
Chlorobenzene	**55**		20		ug/L			04/03/17 16:16	20
Chloroethane	100	U	100		ug/L			04/03/17 16:16	20
Chloroform	20	U	20		ug/L			04/03/17 16:16	20
Chloromethane	20	U	20		ug/L			04/03/17 16:16	20
cis-1,2-Dichloroethene	**2500**		20		ug/L			04/03/17 16:16	20
cis-1,3-Dichloropropene	20	U	20		ug/L			04/03/17 16:16	20
Cyclohexane	20	U	20		ug/L			04/03/17 16:16	20
Dibromochloromethane	20	U	20		ug/L			04/03/17 16:16	20
Dichlorodifluoromethane	20	U	20		ug/L			04/03/17 16:16	20
Ethylbenzene	20	U	20		ug/L			04/03/17 16:16	20
Isopropylbenzene	20	U	20		ug/L			04/03/17 16:16	20
Methyl acetate	100	U	100		ug/L			04/03/17 16:16	20
Methyl tert-butyl ether	200	U	200		ug/L			04/03/17 16:16	20
Methylcyclohexane	20	U	20		ug/L			04/03/17 16:16	20
Methylene Chloride	100	U	100		ug/L			04/03/17 16:16	20
Naphthalene	100	U	100		ug/L			04/03/17 16:16	20
Styrene	20	U	20		ug/L			04/03/17 16:16	20
Tetrachloroethene	**830**		20		ug/L			04/03/17 16:16	20
Toluene	20	U	20		ug/L			04/03/17 16:16	20
trans-1,2-Dichloroethene	20	U	20		ug/L			04/03/17 16:16	20
trans-1,3-Dichloropropene	20	U	20		ug/L			04/03/17 16:16	20
Trichloroethene	**940**		20		ug/L			04/03/17 16:16	20
Trichlorofluoromethane	20	U	20		ug/L			04/03/17 16:16	20
Vinyl chloride	**340**		20		ug/L			04/03/17 16:16	20
Xylenes, Total	20	U	20		ug/L			04/03/17 16:16	20

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: DUP-2
Date Collected: 03/23/17 00:00
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-25
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		04/03/17 16:16	20
Dibromofluoromethane (Surr)	98		80 - 122		04/03/17 16:16	20
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		04/03/17 16:16	20
Toluene-d8 (Surr)	100		80 - 120		04/03/17 16:16	20

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 680-136723-26

Date Collected: 03/21/17 17:30

Matrix: Water

Date Received: 03/24/17 07:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			04/03/17 13:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			04/03/17 13:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			04/03/17 13:58	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			04/03/17 13:58	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			04/03/17 13:58	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 13:58	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			04/03/17 13:58	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			04/03/17 13:58	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			04/03/17 13:58	1
1,2-Dichlorobenzene	**1.5**		1.0		ug/L			04/03/17 13:58	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			04/03/17 13:58	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			04/03/17 13:58	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 13:58	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 13:58	1
2-Butanone	10	U	10		ug/L			04/03/17 13:58	1
2-Hexanone	10	U	10		ug/L			04/03/17 13:58	1
4-Methyl-2-pentanone	10	U	10		ug/L			04/03/17 13:58	1
Acetone	10	U	10		ug/L			04/03/17 13:58	1
Benzene	1.0	U	1.0		ug/L			04/03/17 13:58	1
Bromodichloromethane	1.0	U	1.0		ug/L			04/03/17 13:58	1
Bromoform	1.0	U	1.0		ug/L			04/03/17 13:58	1
Bromomethane	5.0	U	5.0		ug/L			04/03/17 13:58	1
Carbon disulfide	2.0	U	2.0		ug/L			04/03/17 13:58	1
Carbon tetrachloride	1.0	U	1.0		ug/L			04/03/17 13:58	1
Chlorobenzene	1.0	U	1.0		ug/L			04/03/17 13:58	1
Chloroethane	5.0	U	5.0		ug/L			04/03/17 13:58	1
Chloroform	1.0	U	1.0		ug/L			04/03/17 13:58	1
Chloromethane	1.0	U	1.0		ug/L			04/03/17 13:58	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 13:58	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 13:58	1
Cyclohexane	1.0	U	1.0		ug/L			04/03/17 13:58	1
Dibromochloromethane	1.0	U	1.0		ug/L			04/03/17 13:58	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			04/03/17 13:58	1
Ethylbenzene	1.0	U	1.0		ug/L			04/03/17 13:58	1
Isopropylbenzene	1.0	U	1.0		ug/L			04/03/17 13:58	1
Methyl acetate	5.0	U	5.0		ug/L			04/03/17 13:58	1
Methyl tert-butyl ether	10	U	10		ug/L			04/03/17 13:58	1
Methylcyclohexane	1.0	U	1.0		ug/L			04/03/17 13:58	1
Methylene Chloride	5.0	U	5.0		ug/L			04/03/17 13:58	1
Naphthalene	5.0	U	5.0		ug/L			04/03/17 13:58	1
Styrene	1.0	U	1.0		ug/L			04/03/17 13:58	1
Tetrachloroethene	1.0	U	1.0		ug/L			04/03/17 13:58	1
Toluene	1.0	U	1.0		ug/L			04/03/17 13:58	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 13:58	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 13:58	1
Trichloroethene	1.0	U	1.0		ug/L			04/03/17 13:58	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			04/03/17 13:58	1
Vinyl chloride	1.0	U	1.0		ug/L			04/03/17 13:58	1
Xylenes, Total	1.0	U	1.0		ug/L			04/03/17 13:58	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: EQUIPMENT BLANK
Date Collected: 03/21/17 17:30
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-26
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		04/03/17 13:58	1
Dibromofluoromethane (Surr)	99		80 - 122		04/03/17 13:58	1
1,2-Dichloroethane-d4 (Surr)	96		73 - 131		04/03/17 13:58	1
Toluene-d8 (Surr)	100		80 - 120		04/03/17 13:58	1

Client Sample ID: HMW-1
Date Collected: 03/20/17 16:15
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-27
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 14:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/31/17 14:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			03/31/17 14:16	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 14:16	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/31/17 14:16	1
1,1-Dichloroethene	**1.0**		1.0		ug/L			03/31/17 14:16	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			03/31/17 14:16	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/31/17 14:16	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			03/31/17 14:16	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 14:16	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/31/17 14:16	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/31/17 14:16	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 14:16	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 14:16	1
2-Butanone	10	U	10		ug/L			03/31/17 14:16	1
2-Hexanone	10	U	10		ug/L			03/31/17 14:16	1
4-Methyl-2-pentanone	10	U	10		ug/L			03/31/17 14:16	1
Acetone	10	U	10		ug/L			03/31/17 14:16	1
Benzene	1.0	U	1.0		ug/L			03/31/17 14:16	1
Bromodichloromethane	1.0	U	1.0		ug/L			03/31/17 14:16	1
Bromoform	1.0	U	1.0		ug/L			03/31/17 14:16	1
Bromomethane	5.0	U	5.0		ug/L			03/31/17 14:16	1
Carbon disulfide	2.0	U	2.0		ug/L			03/31/17 14:16	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/31/17 14:16	1
Chlorobenzene	1.0	U	1.0		ug/L			03/31/17 14:16	1
Chloroethane	5.0	U	5.0		ug/L			03/31/17 14:16	1
Chloroform	1.0	U	1.0		ug/L			03/31/17 14:16	1
Chloromethane	1.0	U	1.0		ug/L			03/31/17 14:16	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 14:16	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 14:16	1
Cyclohexane	1.0	U	1.0		ug/L			03/31/17 14:16	1
Dibromochloromethane	1.0	U	1.0		ug/L			03/31/17 14:16	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			03/31/17 14:16	1
Ethylbenzene	1.0	U	1.0		ug/L			03/31/17 14:16	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/31/17 14:16	1
Methyl acetate	5.0	U	5.0		ug/L			03/31/17 14:16	1
Methyl tert-butyl ether	10	U	10		ug/L			03/31/17 14:16	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/31/17 14:16	1
Methylene Chloride	5.0	U	5.0		ug/L			03/31/17 14:16	1
Naphthalene	5.0	U	5.0		ug/L			03/31/17 14:16	1
Styrene	1.0	U	1.0		ug/L			03/31/17 14:16	1
Tetrachloroethene	**6.0**		1.0		ug/L			03/31/17 14:16	1
Toluene	1.0	U	1.0		ug/L			03/31/17 14:16	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 14:16	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 14:16	1
Trichloroethene	**1.2**		1.0		ug/L			03/31/17 14:16	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			03/31/17 14:16	1
Vinyl chloride	1.0	U	1.0		ug/L			03/31/17 14:16	1
Xylenes, Total	1.0	U	1.0		ug/L			03/31/17 14:16	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: HMW-1
Date Collected: 03/20/17 16:15
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-27
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		03/31/17 14:16	1
Dibromofluoromethane (Surr)	97		80 - 122		03/31/17 14:16	1
1,2-Dichloroethane-d4 (Surr)	93		73 - 131		03/31/17 14:16	1
Toluene-d8 (Surr)	100		80 - 120		03/31/17 14:16	1

Client Sample ID: SW-1
Date Collected: 03/23/17 16:05
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-28
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**60**		2.0		ug/L			04/03/17 16:39	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0		ug/L			04/03/17 16:39	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0		ug/L			04/03/17 16:39	2
1,1,2-Trichloroethane	2.0	U	2.0		ug/L			04/03/17 16:39	2
1,1-Dichloroethane	**6.2**		2.0		ug/L			04/03/17 16:39	2
1,1-Dichloroethene	**19**		2.0		ug/L			04/03/17 16:39	2
1,2,4-Trichlorobenzene	10	U	10		ug/L			04/03/17 16:39	2
1,2-Dibromo-3-Chloropropane	10	U	10		ug/L			04/03/17 16:39	2
1,2-Dibromoethane	2.0	U	2.0		ug/L			04/03/17 16:39	2
1,2-Dichlorobenzene	2.0	U	2.0		ug/L			04/03/17 16:39	2
1,2-Dichloroethane	2.0	U	2.0		ug/L			04/03/17 16:39	2
1,2-Dichloropropane	2.0	U	2.0		ug/L			04/03/17 16:39	2
1,3-Dichlorobenzene	2.0	U	2.0		ug/L			04/03/17 16:39	2
1,4-Dichlorobenzene	2.0	U	2.0		ug/L			04/03/17 16:39	2
2-Butanone	20	U	20		ug/L			04/03/17 16:39	2
2-Hexanone	20	U	20		ug/L			04/03/17 16:39	2
4-Methyl-2-pentanone	20	U	20		ug/L			04/03/17 16:39	2
Acetone	20	U	20		ug/L			04/03/17 16:39	2
Benzene	2.0	U	2.0		ug/L			04/03/17 16:39	2
Bromodichloromethane	2.0	U	2.0		ug/L			04/03/17 16:39	2
Bromoform	2.0	U	2.0		ug/L			04/03/17 16:39	2
Bromomethane	10	U	10		ug/L			04/03/17 16:39	2
Carbon disulfide	4.0	U	4.0		ug/L			04/03/17 16:39	2
Carbon tetrachloride	2.0	U	2.0		ug/L			04/03/17 16:39	2
Chlorobenzene	2.0	U	2.0		ug/L			04/03/17 16:39	2
Chloroethane	10	U	10		ug/L			04/03/17 16:39	2
Chloroform	2.0	U	2.0		ug/L			04/03/17 16:39	2
Chloromethane	2.0	U	2.0		ug/L			04/03/17 16:39	2
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			04/03/17 16:39	2
Cyclohexane	2.0	U	2.0		ug/L			04/03/17 16:39	2
Dibromochloromethane	2.0	U	2.0		ug/L			04/03/17 16:39	2
Dichlorodifluoromethane	2.0	U	2.0		ug/L			04/03/17 16:39	2
Ethylbenzene	2.0	U	2.0		ug/L			04/03/17 16:39	2
Isopropylbenzene	2.0	U	2.0		ug/L			04/03/17 16:39	2
Methyl acetate	10	U	10		ug/L			04/03/17 16:39	2
Methyl tert-butyl ether	20	U	20		ug/L			04/03/17 16:39	2
Methylcyclohexane	2.0	U	2.0		ug/L			04/03/17 16:39	2
Methylene Chloride	10	U	10		ug/L			04/03/17 16:39	2
Naphthalene	10	U	10		ug/L			04/03/17 16:39	2
Styrene	2.0	U	2.0		ug/L			04/03/17 16:39	2
Toluene	**59**		2.0		ug/L			04/03/17 16:39	2
trans-1,2-Dichloroethene	**5.0**		2.0		ug/L			04/03/17 16:39	2
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			04/03/17 16:39	2
Trichlorofluoromethane	2.0	U	2.0		ug/L			04/03/17 16:39	2
Vinyl chloride	**14**		2.0		ug/L			04/03/17 16:39	2
Xylenes, Total	**6.6**		2.0		ug/L			04/03/17 16:39	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*04/03/17 16:39*	*2*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: SW-1
Date Collected: 03/23/17 16:05
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-28
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*99*		*80 - 122*		*04/03/17 16:39*	*2*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*		*04/03/17 16:39*	*2*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/03/17 16:39*	*2*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**580**		5.0		ug/L			04/04/17 10:31	5
Tetrachloroethene	**680**		5.0		ug/L			04/04/17 10:31	5
Trichloroethene	**490**		5.0		ug/L			04/04/17 10:31	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*04/04/17 10:31*	*5*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*04/04/17 10:31*	*5*
1,2-Dichloroethane-d4 (Surr)	*94*		*73 - 131*		*04/04/17 10:31*	*5*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/04/17 10:31*	*5*

Client Sample ID: SW-2

Date Collected: 03/23/17 15:45
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-29

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**2.6**		1.0		ug/L			04/03/17 14:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			04/03/17 14:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			04/03/17 14:21	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			04/03/17 14:21	1
1,1-Dichloroethane	**4.7**		1.0		ug/L			04/03/17 14:21	1
1,1-Dichloroethene	**14**		1.0		ug/L			04/03/17 14:21	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			04/03/17 14:21	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			04/03/17 14:21	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			04/03/17 14:21	1
1,2-Dichlorobenzene	**2.1**		1.0		ug/L			04/03/17 14:21	1
1,2-Dichloroethane	**10**		1.0		ug/L			04/03/17 14:21	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			04/03/17 14:21	1
1,3-Dichlorobenzene	**1.5**		1.0		ug/L			04/03/17 14:21	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 14:21	1
2-Butanone	10	U	10		ug/L			04/03/17 14:21	1
2-Hexanone	10	U	10		ug/L			04/03/17 14:21	1
4-Methyl-2-pentanone	10	U	10		ug/L			04/03/17 14:21	1
Acetone	10	U	10		ug/L			04/03/17 14:21	1
Benzene	1.0	U	1.0		ug/L			04/03/17 14:21	1
Bromodichloromethane	1.0	U	1.0		ug/L			04/03/17 14:21	1
Bromoform	1.0	U	1.0		ug/L			04/03/17 14:21	1
Bromomethane	5.0	U	5.0		ug/L			04/03/17 14:21	1
Carbon disulfide	2.0	U	2.0		ug/L			04/03/17 14:21	1
Carbon tetrachloride	1.0	U	1.0		ug/L			04/03/17 14:21	1
Chlorobenzene	1.0	U	1.0		ug/L			04/03/17 14:21	1
Chloroethane	5.0	U	5.0		ug/L			04/03/17 14:21	1
Chloroform	1.0	U	1.0		ug/L			04/03/17 14:21	1
Chloromethane	1.0	U	1.0		ug/L			04/03/17 14:21	1
cis-1,2-Dichloroethene	**95**		1.0		ug/L			04/03/17 14:21	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 14:21	1
Cyclohexane	1.0	U	1.0		ug/L			04/03/17 14:21	1
Dibromochloromethane	1.0	U	1.0		ug/L			04/03/17 14:21	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			04/03/17 14:21	1
Ethylbenzene	1.0	U	1.0		ug/L			04/03/17 14:21	1
Isopropylbenzene	1.0	U	1.0		ug/L			04/03/17 14:21	1
Methyl acetate	5.0	U	5.0		ug/L			04/03/17 14:21	1
Methyl tert-butyl ether	10	U	10		ug/L			04/03/17 14:21	1
Methylcyclohexane	1.0	U	1.0		ug/L			04/03/17 14:21	1
Methylene Chloride	5.0	U	5.0		ug/L			04/03/17 14:21	1
Naphthalene	5.0	U	5.0		ug/L			04/03/17 14:21	1
Styrene	1.0	U	1.0		ug/L			04/03/17 14:21	1
Tetrachloroethene	**38**		1.0		ug/L			04/03/17 14:21	1
Toluene	1.0	U	1.0		ug/L			04/03/17 14:21	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 14:21	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 14:21	1
Trichloroethene	**44**		1.0		ug/L			04/03/17 14:21	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			04/03/17 14:21	1
Vinyl chloride	**4.2**		1.0		ug/L			04/03/17 14:21	1
Xylenes, Total	1.0	U	1.0		ug/L			04/03/17 14:21	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: SW-2
Date Collected: 03/23/17 15:45
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-29
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		04/03/17 14:21	1
Dibromofluoromethane (Surr)	98		80 - 122		04/03/17 14:21	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		04/03/17 14:21	1
Toluene-d8 (Surr)	101		80 - 120		04/03/17 14:21	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: SW-3
Date Collected: 03/23/17 15:15
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-30
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			04/03/17 14:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			04/03/17 14:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			04/03/17 14:44	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			04/03/17 14:44	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			04/03/17 14:44	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 14:44	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			04/03/17 14:44	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			04/03/17 14:44	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			04/03/17 14:44	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 14:44	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			04/03/17 14:44	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			04/03/17 14:44	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 14:44	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 14:44	1
2-Butanone	10	U	10		ug/L			04/03/17 14:44	1
2-Hexanone	10	U	10		ug/L			04/03/17 14:44	1
4-Methyl-2-pentanone	10	U	10		ug/L			04/03/17 14:44	1
Acetone	10	U	10		ug/L			04/03/17 14:44	1
Benzene	1.0	U	1.0		ug/L			04/03/17 14:44	1
Bromodichloromethane	1.0	U	1.0		ug/L			04/03/17 14:44	1
Bromoform	1.0	U	1.0		ug/L			04/03/17 14:44	1
Bromomethane	5.0	U	5.0		ug/L			04/03/17 14:44	1
Carbon disulfide	2.0	U	2.0		ug/L			04/03/17 14:44	1
Carbon tetrachloride	1.0	U	1.0		ug/L			04/03/17 14:44	1
Chlorobenzene	1.0	U	1.0		ug/L			04/03/17 14:44	1
Chloroethane	5.0	U	5.0		ug/L			04/03/17 14:44	1
Chloroform	1.0	U	1.0		ug/L			04/03/17 14:44	1
Chloromethane	1.0	U	1.0		ug/L			04/03/17 14:44	1
cis-1,2-Dichloroethene	**3.2**		1.0		ug/L			04/03/17 14:44	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 14:44	1
Cyclohexane	1.0	U	1.0		ug/L			04/03/17 14:44	1
Dibromochloromethane	1.0	U	1.0		ug/L			04/03/17 14:44	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			04/03/17 14:44	1
Ethylbenzene	1.0	U	1.0		ug/L			04/03/17 14:44	1
Isopropylbenzene	1.0	U	1.0		ug/L			04/03/17 14:44	1
Methyl acetate	5.0	U	5.0		ug/L			04/03/17 14:44	1
Methyl tert-butyl ether	10	U	10		ug/L			04/03/17 14:44	1
Methylcyclohexane	1.0	U	1.0		ug/L			04/03/17 14:44	1
Methylene Chloride	5.0	U	5.0		ug/L			04/03/17 14:44	1
Naphthalene	5.0	U	5.0		ug/L			04/03/17 14:44	1
Styrene	1.0	U	1.0		ug/L			04/03/17 14:44	1
Tetrachloroethene	**1.6**		1.0		ug/L			04/03/17 14:44	1
Toluene	1.0	U	1.0		ug/L			04/03/17 14:44	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 14:44	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 14:44	1
Trichloroethene	**1.4**		1.0		ug/L			04/03/17 14:44	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			04/03/17 14:44	1
Vinyl chloride	1.0	U	1.0		ug/L			04/03/17 14:44	1
Xylenes, Total	1.0	U	1.0		ug/L			04/03/17 14:44	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: SW-3
Date Collected: 03/23/17 15:15
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-30
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		04/03/17 14:44	1
Dibromofluoromethane (Surr)	97		80 - 122		04/03/17 14:44	1
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		04/03/17 14:44	1
Toluene-d8 (Surr)	99		80 - 120		04/03/17 14:44	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: SW-4
Date Collected: 03/23/17 14:50
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-31
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			04/03/17 15:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			04/03/17 15:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			04/03/17 15:07	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			04/03/17 15:07	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			04/03/17 15:07	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 15:07	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			04/03/17 15:07	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			04/03/17 15:07	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			04/03/17 15:07	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 15:07	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			04/03/17 15:07	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			04/03/17 15:07	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 15:07	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 15:07	1
2-Butanone	10	U	10		ug/L			04/03/17 15:07	1
2-Hexanone	10	U	10		ug/L			04/03/17 15:07	1
4-Methyl-2-pentanone	10	U	10		ug/L			04/03/17 15:07	1
Acetone	10	U	10		ug/L			04/03/17 15:07	1
Benzene	1.0	U	1.0		ug/L			04/03/17 15:07	1
Bromodichloromethane	1.0	U	1.0		ug/L			04/03/17 15:07	1
Bromoform	1.0	U	1.0		ug/L			04/03/17 15:07	1
Bromomethane	5.0	U	5.0		ug/L			04/03/17 15:07	1
Carbon disulfide	2.0	U	2.0		ug/L			04/03/17 15:07	1
Carbon tetrachloride	1.0	U	1.0		ug/L			04/03/17 15:07	1
Chlorobenzene	1.0	U	1.0		ug/L			04/03/17 15:07	1
Chloroethane	5.0	U	5.0		ug/L			04/03/17 15:07	1
Chloroform	1.0	U	1.0		ug/L			04/03/17 15:07	1
Chloromethane	1.0	U	1.0		ug/L			04/03/17 15:07	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 15:07	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 15:07	1
Cyclohexane	1.0	U	1.0		ug/L			04/03/17 15:07	1
Dibromochloromethane	1.0	U	1.0		ug/L			04/03/17 15:07	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			04/03/17 15:07	1
Ethylbenzene	1.0	U	1.0		ug/L			04/03/17 15:07	1
Isopropylbenzene	1.0	U	1.0		ug/L			04/03/17 15:07	1
Methyl acetate	5.0	U	5.0		ug/L			04/03/17 15:07	1
Methyl tert-butyl ether	10	U	10		ug/L			04/03/17 15:07	1
Methylcyclohexane	1.0	U	1.0		ug/L			04/03/17 15:07	1
Methylene Chloride	5.0	U	5.0		ug/L			04/03/17 15:07	1
Naphthalene	5.0	U	5.0		ug/L			04/03/17 15:07	1
Styrene	1.0	U	1.0		ug/L			04/03/17 15:07	1
Tetrachloroethene	1.0	U	1.0		ug/L			04/03/17 15:07	1
Toluene	1.0	U	1.0		ug/L			04/03/17 15:07	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 15:07	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 15:07	1
Trichloroethene	1.0	U	1.0		ug/L			04/03/17 15:07	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			04/03/17 15:07	1
Vinyl chloride	1.0	U	1.0		ug/L			04/03/17 15:07	1
Xylenes, Total	1.0	U	1.0		ug/L			04/03/17 15:07	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: SW-4
Date Collected: 03/23/17 14:50
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-31
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		04/03/17 15:07	1
Dibromofluoromethane (Surr)	99		80 - 122		04/03/17 15:07	1
1,2-Dichloroethane-d4 (Surr)	93		73 - 131		04/03/17 15:07	1
Toluene-d8 (Surr)	99		80 - 120		04/03/17 15:07	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: 8260B Trip Blank
Date Collected: 03/23/17 00:00
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-32
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 13:53	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/31/17 13:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			03/31/17 13:53	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 13:53	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/31/17 13:53	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 13:53	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			03/31/17 13:53	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/31/17 13:53	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			03/31/17 13:53	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 13:53	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/31/17 13:53	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/31/17 13:53	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 13:53	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 13:53	1
2-Butanone	10	U	10		ug/L			03/31/17 13:53	1
2-Hexanone	10	U	10		ug/L			03/31/17 13:53	1
4-Methyl-2-pentanone	10	U	10		ug/L			03/31/17 13:53	1
Acetone	10	U	10		ug/L			03/31/17 13:53	1
Benzene	1.0	U	1.0		ug/L			03/31/17 13:53	1
Bromodichloromethane	1.0	U	1.0		ug/L			03/31/17 13:53	1
Bromoform	1.0	U	1.0		ug/L			03/31/17 13:53	1
Bromomethane	5.0	U	5.0		ug/L			03/31/17 13:53	1
Carbon disulfide	2.0	U	2.0		ug/L			03/31/17 13:53	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/31/17 13:53	1
Chlorobenzene	1.0	U	1.0		ug/L			03/31/17 13:53	1
Chloroethane	5.0	U	5.0		ug/L			03/31/17 13:53	1
Chloroform	1.0	U	1.0		ug/L			03/31/17 13:53	1
Chloromethane	1.0	U	1.0		ug/L			03/31/17 13:53	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 13:53	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 13:53	1
Cyclohexane	1.0	U	1.0		ug/L			03/31/17 13:53	1
Dibromochloromethane	1.0	U	1.0		ug/L			03/31/17 13:53	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			03/31/17 13:53	1
Ethylbenzene	1.0	U	1.0		ug/L			03/31/17 13:53	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/31/17 13:53	1
Methyl acetate	5.0	U	5.0		ug/L			03/31/17 13:53	1
Methyl tert-butyl ether	10	U	10		ug/L			03/31/17 13:53	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/31/17 13:53	1
Methylene Chloride	5.0	U	5.0		ug/L			03/31/17 13:53	1
Naphthalene	5.0	U	5.0		ug/L			03/31/17 13:53	1
Styrene	1.0	U	1.0		ug/L			03/31/17 13:53	1
Tetrachloroethene	1.0	U	1.0		ug/L			03/31/17 13:53	1
Toluene	1.0	U	1.0		ug/L			03/31/17 13:53	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 13:53	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 13:53	1
Trichloroethene	1.0	U	1.0		ug/L			03/31/17 13:53	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			03/31/17 13:53	1
Vinyl chloride	1.0	U	1.0		ug/L			03/31/17 13:53	1
Xylenes, Total	1.0	U	1.0		ug/L			03/31/17 13:53	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: 8260B Trip Blank
Date Collected: 03/23/17 00:00
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-32
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		73 - 131		03/31/17 13:53	1
4-Bromofluorobenzene (Surr)	104		80 - 120		03/31/17 13:53	1
Dibromofluoromethane (Surr)	96		80 - 122		03/31/17 13:53	1
Toluene-d8 (Surr)	99		80 - 120		03/31/17 13:53	1

Surrogate Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-122)	(73-131)	(80-120)
680-136723-1	SMW-1	101	99	95	100
680-136723-2	SMW-2	101	97	92	100
680-136723-2 - DL	SMW-2	101	97	92	100
680-136723-3	SMW-3	101	97	92	100
680-136723-4	SMW-4	103	97	94	99
680-136723-5	SRW-1	105	96	92	100
680-136723-5 - DL	SRW-1	103	95	91	99
680-136723-6	WMW-1	102	97	93	102
680-136723-7	YMW-1	101	97	93	101
680-136723-8	YMW-2	104	97	92	99
680-136723-9	YMW-4	104	98	95	99
680-136723-10	YMW-5	102	97	92	101
680-136723-10 - DL	YMW-5	101	97	91	102
680-136723-11	YMW-6	104	98	95	100
680-136723-11 - DL	YMW-6	103	95	92	99
680-136723-12	YMW-7	104	96	92	99
680-136723-13	YMW-8	104	98	94	99
680-136723-14	YMW-9	102	99	96	99
680-136723-15	YMW-10	103	97	93	101
680-136723-16	YMW-11	103	98	97	100
680-136723-17	YMW-13	104	98	93	101
680-136723-18	YMW-15	103	98	93	101
680-136723-19	YMW-14	102	98	94	100
680-136723-20 - DL	YMW-16	104	97	93	99
680-136723-21	YMW-17	101	100	95	101
680-136723-22	YMW-18	101	97	95	100
680-136723-23	YMW-19	103	97	94	100
680-136723-23 - DL	YMW-19	103	97	90	99
680-136723-24 - DL	DUP-1	104	99	94	100
680-136723-25 - DL	DUP-2	105	98	94	100
680-136723-26	EQUIPMENT BLANK	105	99	96	100
680-136723-27	HMW-1	105	97	93	100
680-136723-28	SW-1	101	99	97	100
680-136723-28 - DL	SW-1	102	97	94	99
680-136723-29	SW-2	101	98	95	101
680-136723-30	SW-3	103	97	94	99
680-136723-31	SW-4	103	99	93	99
680-136723-32	8260B Trip Blank	104	96	93	99
LCS 680-474430/4	Lab Control Sample	96	99	96	102
LCS 680-474577/4	Lab Control Sample	98	102	102	102
LCS 680-474707/4	Lab Control Sample	100	102	97	102
LCSD 680-474430/5	Lab Control Sample Dup	100	104	103	101
LCSD 680-474577/5	Lab Control Sample Dup	98	105	105	103
LCSD 680-474707/5	Lab Control Sample Dup	98	102	99	102
MB 680-474430/9	Method Blank	103	97	92	100
MB 680-474577/9	Method Blank	103	98	95	100
MB 680-474707/9	Method Blank	102	96	93	99

Surrogate Legend

Surrogate Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-474430/9
Matrix: Water
Analysis Batch: 474430

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 13:30	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/31/17 13:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			03/31/17 13:30	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/31/17 13:30	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/31/17 13:30	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 13:30	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			03/31/17 13:30	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/31/17 13:30	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			03/31/17 13:30	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 13:30	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/31/17 13:30	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/31/17 13:30	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 13:30	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/31/17 13:30	1
2-Butanone	10	U	10		ug/L			03/31/17 13:30	1
2-Hexanone	10	U	10		ug/L			03/31/17 13:30	1
4-Methyl-2-pentanone	10	U	10		ug/L			03/31/17 13:30	1
Acetone	10	U	10		ug/L			03/31/17 13:30	1
Benzene	1.0	U	1.0		ug/L			03/31/17 13:30	1
Bromodichloromethane	1.0	U	1.0		ug/L			03/31/17 13:30	1
Bromoform	1.0	U	1.0		ug/L			03/31/17 13:30	1
Bromomethane	5.0	U	5.0		ug/L			03/31/17 13:30	1
Carbon disulfide	2.0	U	2.0		ug/L			03/31/17 13:30	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/31/17 13:30	1
Chlorobenzene	1.0	U	1.0		ug/L			03/31/17 13:30	1
Chloroethane	5.0	U	5.0		ug/L			03/31/17 13:30	1
Chloroform	1.0	U	1.0		ug/L			03/31/17 13:30	1
Chloromethane	1.0	U	1.0		ug/L			03/31/17 13:30	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 13:30	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 13:30	1
Cyclohexane	1.0	U	1.0		ug/L			03/31/17 13:30	1
Dibromochloromethane	1.0	U	1.0		ug/L			03/31/17 13:30	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			03/31/17 13:30	1
Ethylbenzene	1.0	U	1.0		ug/L			03/31/17 13:30	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/31/17 13:30	1
Methyl acetate	5.0	U	5.0		ug/L			03/31/17 13:30	1
Methyl tert-butyl ether	10	U	10		ug/L			03/31/17 13:30	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/31/17 13:30	1
Methylene Chloride	5.0	U	5.0		ug/L			03/31/17 13:30	1
Naphthalene	5.0	U	5.0		ug/L			03/31/17 13:30	1
Styrene	1.0	U	1.0		ug/L			03/31/17 13:30	1
Tetrachloroethene	1.0	U	1.0		ug/L			03/31/17 13:30	1
Toluene	1.0	U	1.0		ug/L			03/31/17 13:30	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/31/17 13:30	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			03/31/17 13:30	1
Trichloroethene	1.0	U	1.0		ug/L			03/31/17 13:30	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			03/31/17 13:30	1
Vinyl chloride	1.0	U	1.0		ug/L			03/31/17 13:30	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-474430/9
Matrix: Water
Analysis Batch: 474430

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.0	U	1.0		ug/L			03/31/17 13:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*73 - 131*		*03/31/17 13:30*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*03/31/17 13:30*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*03/31/17 13:30*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/31/17 13:30*	*1*

Lab Sample ID: LCS 680-474430/4
Matrix: Water
Analysis Batch: 474430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	50.6		ug/L		101	80 - 120
1,1,2,2-Tetrachloroethane	50.0	50.1		ug/L		100	76 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.6		ug/L		105	75 - 128
1,1,2-Trichloroethane	50.0	50.0		ug/L		100	80 - 120
1,1-Dichloroethane	50.0	49.7		ug/L		99	80 - 120
1,1-Dichloroethene	50.0	51.3		ug/L		103	80 - 120
1,2,4-Trichlorobenzene	50.0	53.0		ug/L		106	71 - 126
1,2-Dibromo-3-Chloropropane	50.0	51.3		ug/L		103	74 - 120
1,2-Dibromoethane	50.0	49.6		ug/L		99	75 - 126
1,2-Dichlorobenzene	50.0	50.2		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	48.1		ug/L		96	72 - 128
1,2-Dichloropropane	50.0	49.3		ug/L		99	80 - 120
1,3-Dichlorobenzene	50.0	49.8		ug/L		100	80 - 120
1,4-Dichlorobenzene	50.0	49.8		ug/L		100	80 - 120
2-Butanone	250	238		ug/L		95	79 - 125
2-Hexanone	250	252		ug/L		101	80 - 131
4-Methyl-2-pentanone	250	248		ug/L		99	80 - 134
Acetone	250	231		ug/L		92	68 - 132
Benzene	50.0	50.1		ug/L		100	80 - 120
Bromodichloromethane	50.0	51.8		ug/L		104	80 - 120
Bromoform	50.0	43.1		ug/L		86	52 - 122
Bromomethane	50.0	49.9		ug/L		100	43 - 146
Carbon disulfide	50.0	51.8		ug/L		104	77 - 129
Carbon tetrachloride	50.0	52.8		ug/L		106	67 - 125
Chlorobenzene	50.0	49.9		ug/L		100	80 - 120
Chloroethane	50.0	51.3		ug/L		103	48 - 145
Chloroform	50.0	48.9		ug/L		98	80 - 120
Chloromethane	50.0	51.7		ug/L		103	76 - 149
cis-1,2-Dichloroethene	50.0	50.3		ug/L		101	80 - 120
cis-1,3-Dichloropropene	50.0	52.4		ug/L		105	80 - 129
Cyclohexane	50.0	51.1		ug/L		102	80 - 132
Dibromochloromethane	50.0	52.1		ug/L		104	68 - 120
Dichlorodifluoromethane	50.0	50.1		ug/L		100	70 - 137
Ethylbenzene	50.0	51.3		ug/L		103	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-474430/4
Matrix: Water
Analysis Batch: 474430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	52.1		ug/L		104	79 - 126
Methyl acetate	250	245		ug/L		98	73 - 139
Methyl tert-butyl ether	50.0	50.1		ug/L		100	80 - 122
Methylcyclohexane	50.0	53.8		ug/L		108	80 - 138
Methylene Chloride	50.0	49.0		ug/L		98	80 - 120
Naphthalene	50.0	53.3		ug/L		107	61 - 136
Styrene	50.0	52.0		ug/L		104	80 - 126
Tetrachloroethene	50.0	51.3		ug/L		103	71 - 123
Toluene	50.0	50.2		ug/L		100	80 - 120
trans-1,2-Dichloroethene	50.0	51.2		ug/L		102	80 - 120
trans-1,3-Dichloropropene	50.0	52.6		ug/L		105	80 - 128
Trichloroethene	50.0	51.3		ug/L		103	80 - 120
Trichlorofluoromethane	50.0	50.2		ug/L		100	58 - 127
Vinyl chloride	50.0	52.0		ug/L		104	80 - 129
Xylenes, Total	100	102		ug/L		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 122*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: LCSD 680-474430/5
Matrix: Water
Analysis Batch: 474430

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	49.0		ug/L		98	80 - 120	3	20
1,1,2,2-Tetrachloroethane	50.0	53.0		ug/L		106	76 - 126	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.5		ug/L		97	75 - 128	8	20
1,1,2-Trichloroethane	50.0	53.0		ug/L		106	80 - 120	6	20
1,1-Dichloroethane	50.0	50.5		ug/L		101	80 - 120	2	20
1,1-Dichloroethene	50.0	46.4		ug/L		93	80 - 120	10	20
1,2,4-Trichlorobenzene	50.0	54.7		ug/L		109	71 - 126	3	20
1,2-Dibromo-3-Chloropropane	50.0	56.1		ug/L		112	74 - 120	9	20
1,2-Dibromoethane	50.0	54.8		ug/L		110	75 - 126	10	20
1,2-Dichlorobenzene	50.0	51.3		ug/L		103	80 - 120	2	20
1,2-Dichloroethane	50.0	51.3		ug/L		103	72 - 128	6	50
1,2-Dichloropropane	50.0	50.9		ug/L		102	80 - 120	3	20
1,3-Dichlorobenzene	50.0	51.3		ug/L		103	80 - 120	3	20
1,4-Dichlorobenzene	50.0	50.5		ug/L		101	80 - 120	1	20
2-Butanone	250	269		ug/L		107	79 - 125	12	20
2-Hexanone	250	271		ug/L		108	80 - 131	7	20
4-Methyl-2-pentanone	250	272		ug/L		109	80 - 134	9	20
Acetone	250	257		ug/L		103	68 - 132	11	30
Benzene	50.0	50.5		ug/L		101	80 - 120	1	20
Bromodichloromethane	50.0	54.0		ug/L		108	80 - 120	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-474430/5
Matrix: Water
Analysis Batch: 474430

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform			50.0	46.0		ug/L		92	52 - 122	6	20
Bromomethane			50.0	53.1		ug/L		106	43 - 146	6	20
Carbon disulfide			50.0	49.0		ug/L		98	77 - 129	6	20
Carbon tetrachloride			50.0	49.2		ug/L		98	67 - 125	7	20
Chlorobenzene			50.0	49.6		ug/L		99	80 - 120	1	20
Chloroethane			50.0	49.3		ug/L		99	48 - 145	4	20
Chloroform			50.0	50.7		ug/L		101	80 - 120	4	20
Chloromethane			50.0	49.5		ug/L		99	76 - 149	4	30
cis-1,2-Dichloroethene			50.0	51.3		ug/L		103	80 - 120	2	20
cis-1,3-Dichloropropene			50.0	55.4		ug/L		111	80 - 129	6	20
Cyclohexane			50.0	46.7		ug/L		93	80 - 132	9	20
Dibromochloromethane			50.0	57.0		ug/L		114	68 - 120	9	20
Dichlorodifluoromethane			50.0	46.7		ug/L		93	70 - 137	7	40
Ethylbenzene			50.0	49.4		ug/L		99	80 - 120	4	20
Isopropylbenzene			50.0	49.3		ug/L		99	79 - 126	6	20
Methyl acetate			250	269		ug/L		107	73 - 139	9	20
Methyl tert-butyl ether			50.0	54.3		ug/L		109	80 - 122	8	20
Methylcyclohexane			50.0	48.3		ug/L		97	80 - 138	11	20
Methylene Chloride			50.0	50.4		ug/L		101	80 - 120	3	20
Naphthalene			50.0	57.1		ug/L		114	61 - 136	7	20
Styrene			50.0	51.7		ug/L		103	80 - 126	1	20
Tetrachloroethene			50.0	48.8		ug/L		98	71 - 123	5	20
Toluene			50.0	50.3		ug/L		101	80 - 120	0	20
trans-1,2-Dichloroethene			50.0	50.0		ug/L		100	80 - 120	2	20
trans-1,3-Dichloropropene			50.0	56.9		ug/L		114	80 - 128	8	30
Trichloroethene			50.0	49.6		ug/L		99	80 - 120	3	20
Trichlorofluoromethane			50.0	45.8		ug/L		92	58 - 127	9	20
Vinyl chloride			50.0	46.5		ug/L		93	80 - 129	11	20
Xylenes, Total			100	99.4		ug/L		99	80 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*73 - 131*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 122*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 680-474577/9
Matrix: Water
Analysis Batch: 474577

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			04/03/17 08:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			04/03/17 08:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			04/03/17 08:59	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			04/03/17 08:59	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			04/03/17 08:59	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 08:59	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			04/03/17 08:59	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-474577/9
Matrix: Water
Analysis Batch: 474577

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			04/03/17 08:59	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			04/03/17 08:59	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 08:59	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			04/03/17 08:59	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			04/03/17 08:59	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 08:59	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			04/03/17 08:59	1
2-Butanone	10	U	10		ug/L			04/03/17 08:59	1
2-Hexanone	10	U	10		ug/L			04/03/17 08:59	1
4-Methyl-2-pentanone	10	U	10		ug/L			04/03/17 08:59	1
Acetone	10	U	10		ug/L			04/03/17 08:59	1
Benzene	1.0	U	1.0		ug/L			04/03/17 08:59	1
Bromodichloromethane	1.0	U	1.0		ug/L			04/03/17 08:59	1
Bromoform	1.0	U	1.0		ug/L			04/03/17 08:59	1
Bromomethane	5.0	U	5.0		ug/L			04/03/17 08:59	1
Carbon disulfide	2.0	U	2.0		ug/L			04/03/17 08:59	1
Carbon tetrachloride	1.0	U	1.0		ug/L			04/03/17 08:59	1
Chlorobenzene	1.0	U	1.0		ug/L			04/03/17 08:59	1
Chloroethane	5.0	U	5.0		ug/L			04/03/17 08:59	1
Chloroform	1.0	U	1.0		ug/L			04/03/17 08:59	1
Chloromethane	1.0	U	1.0		ug/L			04/03/17 08:59	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 08:59	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 08:59	1
Cyclohexane	1.0	U	1.0		ug/L			04/03/17 08:59	1
Dibromochloromethane	1.0	U	1.0		ug/L			04/03/17 08:59	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			04/03/17 08:59	1
Ethylbenzene	1.0	U	1.0		ug/L			04/03/17 08:59	1
Isopropylbenzene	1.0	U	1.0		ug/L			04/03/17 08:59	1
Methyl acetate	5.0	U	5.0		ug/L			04/03/17 08:59	1
Methyl tert-butyl ether	10	U	10		ug/L			04/03/17 08:59	1
Methylcyclohexane	1.0	U	1.0		ug/L			04/03/17 08:59	1
Methylene Chloride	5.0	U	5.0		ug/L			04/03/17 08:59	1
Naphthalene	5.0	U	5.0		ug/L			04/03/17 08:59	1
Styrene	1.0	U	1.0		ug/L			04/03/17 08:59	1
Tetrachloroethene	1.0	U	1.0		ug/L			04/03/17 08:59	1
Toluene	1.0	U	1.0		ug/L			04/03/17 08:59	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/03/17 08:59	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/03/17 08:59	1
Trichloroethene	1.0	U	1.0		ug/L			04/03/17 08:59	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			04/03/17 08:59	1
Vinyl chloride	1.0	U	1.0		ug/L			04/03/17 08:59	1
Xylenes, Total	1.0	U	1.0		ug/L			04/03/17 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*73 - 131*		*04/03/17 08:59*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*04/03/17 08:59*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 122*		*04/03/17 08:59*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/03/17 08:59*	*1*

QC Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Lab Sample ID: LCS 680-474577/4
Matrix: Water
Analysis Batch: 474577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	50.3		ug/L		101	80 - 120
1,1,2,2-Tetrachloroethane	50.0	52.3		ug/L		105	76 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.5		ug/L		101	75 - 128
1,1,2-Trichloroethane	50.0	53.4		ug/L		107	80 - 120
1,1-Dichloroethane	50.0	51.5		ug/L		103	80 - 120
1,1-Dichloroethene	50.0	50.3		ug/L		101	80 - 120
1,2,4-Trichlorobenzene	50.0	54.4		ug/L		109	71 - 126
1,2-Dibromo-3-Chloropropane	50.0	53.9		ug/L		108	74 - 120
1,2-Dibromoethane	50.0	53.1		ug/L		106	75 - 126
1,2-Dichlorobenzene	50.0	51.7		ug/L		103	80 - 120
1,2-Dichloroethane	50.0	51.7		ug/L		103	72 - 128
1,2-Dichloropropane	50.0	51.0		ug/L		102	80 - 120
1,3-Dichlorobenzene	50.0	51.1		ug/L		102	80 - 120
1,4-Dichlorobenzene	50.0	50.8		ug/L		102	80 - 120
2-Butanone	250	263		ug/L		105	79 - 125
2-Hexanone	250	263		ug/L		105	80 - 131
4-Methyl-2-pentanone	250	264		ug/L		106	80 - 134
Acetone	250	240		ug/L		96	68 - 132
Benzene	50.0	50.4		ug/L		101	80 - 120
Bromodichloromethane	50.0	53.9		ug/L		108	80 - 120
Bromoform	50.0	46.0		ug/L		92	52 - 122
Bromomethane	50.0	48.2		ug/L		96	43 - 146
Carbon disulfide	50.0	49.8		ug/L		100	77 - 129
Carbon tetrachloride	50.0	50.7		ug/L		101	67 - 125
Chlorobenzene	50.0	51.2		ug/L		102	80 - 120
Chloroethane	50.0	49.9		ug/L		100	48 - 145
Chloroform	50.0	50.6		ug/L		101	80 - 120
Chloromethane	50.0	47.6		ug/L		95	76 - 149
cis-1,2-Dichloroethene	50.0	51.0		ug/L		102	80 - 120
cis-1,3-Dichloropropene	50.0	54.3		ug/L		109	80 - 129
Cyclohexane	50.0	49.9		ug/L		100	80 - 132
Dibromochloromethane	50.0	56.2		ug/L		112	68 - 120
Dichlorodifluoromethane	50.0	45.7		ug/L		91	70 - 137
Ethylbenzene	50.0	50.3		ug/L		101	80 - 120
Isopropylbenzene	50.0	51.2		ug/L		102	79 - 126
Methyl acetate	250	259		ug/L		104	73 - 139
Methyl tert-butyl ether	50.0	53.0		ug/L		106	80 - 122
Methylcyclohexane	50.0	51.6		ug/L		103	80 - 138
Methylene Chloride	50.0	50.3		ug/L		101	80 - 120
Naphthalene	50.0	55.3		ug/L		111	61 - 136
Styrene	50.0	52.9		ug/L		106	80 - 126
Tetrachloroethene	50.0	49.1		ug/L		98	71 - 123
Toluene	50.0	50.5		ug/L		101	80 - 120
trans-1,2-Dichloroethene	50.0	50.6		ug/L		101	80 - 120
trans-1,3-Dichloropropene	50.0	55.2		ug/L		110	80 - 128
Trichloroethene	50.0	50.1		ug/L		100	80 - 120
Trichlorofluoromethane	50.0	48.2		ug/L		96	58 - 127
Vinyl chloride	50.0	48.6		ug/L		97	80 - 129
Xylenes, Total	100	102		ug/L		102	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-474577/4
Matrix: Water
Analysis Batch: 474577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		73 - 131
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	102		80 - 122
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: LCSD 680-474577/5
Matrix: Water
Analysis Batch: 474577

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	48.2		ug/L		96	80 - 120	4	20
1,1,2,2-Tetrachloroethane			50.0	54.4		ug/L		109	76 - 126	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	48.5		ug/L		97	75 - 128	4	20
1,1,2-Trichloroethane			50.0	55.1		ug/L		110	80 - 120	3	20
1,1-Dichloroethane			50.0	50.6		ug/L		101	80 - 120	2	20
1,1-Dichloroethene			50.0	48.3		ug/L		97	80 - 120	4	20
1,2,4-Trichlorobenzene			50.0	55.1		ug/L		110	71 - 126	1	20
1,2-Dibromo-3-Chloropropane			50.0	54.9		ug/L		110	74 - 120	2	20
1,2-Dibromoethane			50.0	55.0		ug/L		110	75 - 126	4	20
1,2-Dichlorobenzene			50.0	52.0		ug/L		104	80 - 120	1	20
1,2-Dichloroethane			50.0	53.6		ug/L		107	72 - 128	4	50
1,2-Dichloropropane			50.0	52.6		ug/L		105	80 - 120	3	20
1,3-Dichlorobenzene			50.0	51.1		ug/L		102	80 - 120	0	20
1,4-Dichlorobenzene			50.0	51.2		ug/L		102	80 - 120	1	20
2-Butanone			250	272		ug/L		109	79 - 125	4	20
2-Hexanone			250	277		ug/L		111	80 - 131	5	20
4-Methyl-2-pentanone			250	275		ug/L		110	80 - 134	4	20
Acetone			250	252		ug/L		101	68 - 132	5	30
Benzene			50.0	50.5		ug/L		101	80 - 120	0	20
Bromodichloromethane			50.0	55.0		ug/L		110	80 - 120	2	20
Bromoform			50.0	48.1		ug/L		96	52 - 122	4	20
Bromomethane			50.0	48.4		ug/L		97	43 - 146	0	20
Carbon disulfide			50.0	48.8		ug/L		98	77 - 129	2	20
Carbon tetrachloride			50.0	50.0		ug/L		100	67 - 125	1	20
Chlorobenzene			50.0	50.4		ug/L		101	80 - 120	2	20
Chloroethane			50.0	48.6		ug/L		97	48 - 145	3	20
Chloroform			50.0	50.2		ug/L		100	80 - 120	1	20
Chloromethane			50.0	44.7		ug/L		89	76 - 149	6	30
cis-1,2-Dichloroethene			50.0	51.5		ug/L		103	80 - 120	1	20
cis-1,3-Dichloropropene			50.0	56.3		ug/L		113	80 - 129	3	20
Cyclohexane			50.0	47.3		ug/L		95	80 - 132	5	20
Dibromochloromethane			50.0	59.0		ug/L		118	68 - 120	5	20
Dichlorodifluoromethane			50.0	43.7		ug/L		87	70 - 137	4	40
Ethylbenzene			50.0	49.7		ug/L		99	80 - 120	1	20
Isopropylbenzene			50.0	49.5		ug/L		99	79 - 126	4	20
Methyl acetate			250	273		ug/L		109	73 - 139	5	20
Methyl tert-butyl ether			50.0	55.8		ug/L		112	80 - 122	5	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-474577/5
Matrix: Water
Analysis Batch: 474577

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylcyclohexane			50.0	49.8		ug/L		100	80 - 138	3	20
Methylene Chloride			50.0	51.8		ug/L		104	80 - 120	3	20
Naphthalene			50.0	56.7		ug/L		113	61 - 136	3	20
Styrene			50.0	53.1		ug/L		106	80 - 126	0	20
Tetrachloroethene			50.0	49.1		ug/L		98	71 - 123	0	20
Toluene			50.0	50.6		ug/L		101	80 - 120	0	20
trans-1,2-Dichloroethene			50.0	49.6		ug/L		99	80 - 120	2	20
trans-1,3-Dichloropropene			50.0	58.1		ug/L		116	80 - 128	5	30
Trichloroethene			50.0	49.8		ug/L		100	80 - 120	1	20
Trichlorofluoromethane			50.0	45.5		ug/L		91	58 - 127	6	20
Vinyl chloride			50.0	45.9		ug/L		92	80 - 129	6	20
Xylenes, Total			100	100		ug/L		100	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*73 - 131*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 122*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: MB 680-474707/9
Matrix: Water
Analysis Batch: 474707

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			04/04/17 08:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			04/04/17 08:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			04/04/17 08:59	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			04/04/17 08:59	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			04/04/17 08:59	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			04/04/17 08:59	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			04/04/17 08:59	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			04/04/17 08:59	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			04/04/17 08:59	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			04/04/17 08:59	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			04/04/17 08:59	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			04/04/17 08:59	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			04/04/17 08:59	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			04/04/17 08:59	1
2-Butanone	10	U	10		ug/L			04/04/17 08:59	1
2-Hexanone	10	U	10		ug/L			04/04/17 08:59	1
4-Methyl-2-pentanone	10	U	10		ug/L			04/04/17 08:59	1
Acetone	10	U	10		ug/L			04/04/17 08:59	1
Benzene	1.0	U	1.0		ug/L			04/04/17 08:59	1
Bromodichloromethane	1.0	U	1.0		ug/L			04/04/17 08:59	1
Bromoform	1.0	U	1.0		ug/L			04/04/17 08:59	1
Bromomethane	5.0	U	5.0		ug/L			04/04/17 08:59	1
Carbon disulfide	2.0	U	2.0		ug/L			04/04/17 08:59	1
Carbon tetrachloride	1.0	U	1.0		ug/L			04/04/17 08:59	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-474707/9
Matrix: Water
Analysis Batch: 474707

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0		ug/L			04/04/17 08:59	1
Chloroethane	5.0	U	5.0		ug/L			04/04/17 08:59	1
Chloroform	1.0	U	1.0		ug/L			04/04/17 08:59	1
Chloromethane	1.0	U	1.0		ug/L			04/04/17 08:59	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/04/17 08:59	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/04/17 08:59	1
Cyclohexane	1.0	U	1.0		ug/L			04/04/17 08:59	1
Dibromochloromethane	1.0	U	1.0		ug/L			04/04/17 08:59	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			04/04/17 08:59	1
Ethylbenzene	1.0	U	1.0		ug/L			04/04/17 08:59	1
Isopropylbenzene	1.0	U	1.0		ug/L			04/04/17 08:59	1
Methyl acetate	5.0	U	5.0		ug/L			04/04/17 08:59	1
Methyl tert-butyl ether	10	U	10		ug/L			04/04/17 08:59	1
Methylcyclohexane	1.0	U	1.0		ug/L			04/04/17 08:59	1
Methylene Chloride	5.0	U	5.0		ug/L			04/04/17 08:59	1
Naphthalene	5.0	U	5.0		ug/L			04/04/17 08:59	1
Styrene	1.0	U	1.0		ug/L			04/04/17 08:59	1
Tetrachloroethene	1.0	U	1.0		ug/L			04/04/17 08:59	1
Toluene	1.0	U	1.0		ug/L			04/04/17 08:59	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/04/17 08:59	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			04/04/17 08:59	1
Trichloroethene	1.0	U	1.0		ug/L			04/04/17 08:59	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			04/04/17 08:59	1
Vinyl chloride	1.0	U	1.0		ug/L			04/04/17 08:59	1
Xylenes, Total	1.0	U	1.0		ug/L			04/04/17 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 131*		*04/04/17 08:59*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*04/04/17 08:59*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*04/04/17 08:59*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/04/17 08:59*	*1*

Lab Sample ID: LCS 680-474707/4
Matrix: Water
Analysis Batch: 474707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	50.9		ug/L		102	80 - 120
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/L		100	76 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.9		ug/L		102	75 - 128
1,1,2-Trichloroethane	50.0	51.0		ug/L		102	80 - 120
1,1-Dichloroethane	50.0	50.2		ug/L		100	80 - 120
1,1-Dichloroethene	50.0	51.4		ug/L		103	80 - 120
1,2,4-Trichlorobenzene	50.0	53.8		ug/L		108	71 - 126
1,2-Dibromo-3-Chloropropane	50.0	52.4		ug/L		105	74 - 120
1,2-Dibromoethane	50.0	49.9		ug/L		100	75 - 126
1,2-Dichlorobenzene	50.0	51.3		ug/L		103	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-474707/4
Matrix: Water
Analysis Batch: 474707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	49.3		ug/L		99	72 - 128
1,2-Dichloropropane	50.0	50.5		ug/L		101	80 - 120
1,3-Dichlorobenzene	50.0	51.9		ug/L		104	80 - 120
1,4-Dichlorobenzene	50.0	50.9		ug/L		102	80 - 120
2-Butanone	250	241		ug/L		97	79 - 125
2-Hexanone	250	252		ug/L		101	80 - 131
4-Methyl-2-pentanone	250	251		ug/L		101	80 - 134
Acetone	250	232		ug/L		93	68 - 132
Benzene	50.0	50.4		ug/L		101	80 - 120
Bromodichloromethane	50.0	53.0		ug/L		106	80 - 120
Bromoform	50.0	43.4		ug/L		87	52 - 122
Bromomethane	50.0	49.8		ug/L		100	43 - 146
Carbon disulfide	50.0	51.0		ug/L		102	77 - 129
Carbon tetrachloride	50.0	51.6		ug/L		103	67 - 125
Chlorobenzene	50.0	50.4		ug/L		101	80 - 120
Chloroethane	50.0	50.6		ug/L		101	48 - 145
Chloroform	50.0	49.4		ug/L		99	80 - 120
Chloromethane	50.0	50.0		ug/L		100	76 - 149
cis-1,2-Dichloroethene	50.0	50.7		ug/L		101	80 - 120
cis-1,3-Dichloropropene	50.0	53.2		ug/L		106	80 - 129
Cyclohexane	50.0	51.1		ug/L		102	80 - 132
Dibromochloromethane	50.0	53.9		ug/L		108	68 - 120
Dichlorodifluoromethane	50.0	46.6		ug/L		93	70 - 137
Ethylbenzene	50.0	51.6		ug/L		103	80 - 120
Isopropylbenzene	50.0	52.0		ug/L		104	79 - 126
Methyl acetate	250	241		ug/L		96	73 - 139
Methyl tert-butyl ether	50.0	50.3		ug/L		101	80 - 122
Methylcyclohexane	50.0	51.9		ug/L		104	80 - 138
Methylene Chloride	50.0	49.2		ug/L		98	80 - 120
Naphthalene	50.0	54.4		ug/L		109	61 - 136
Styrene	50.0	52.8		ug/L		106	80 - 126
Tetrachloroethene	50.0	51.0		ug/L		102	71 - 123
Toluene	50.0	50.5		ug/L		101	80 - 120
trans-1,2-Dichloroethene	50.0	50.9		ug/L		102	80 - 120
trans-1,3-Dichloropropene	50.0	53.8		ug/L		108	80 - 128
Trichloroethene	50.0	49.9		ug/L		100	80 - 120
Trichlorofluoromethane	50.0	50.2		ug/L		100	58 - 127
Vinyl chloride	50.0	49.0		ug/L		98	80 - 129
Xylenes, Total	100	101		ug/L		101	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 122*
Toluene-d8 (Surr)	*102*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-474707/5
Matrix: Water
Analysis Batch: 474707

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	49.9		ug/L		100	80 - 120	2	20
1,1,2,2-Tetrachloroethane	50.0	51.7		ug/L		103	76 - 126	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.6		ug/L		101	75 - 128	1	20
1,1,2-Trichloroethane	50.0	52.0		ug/L		104	80 - 120	2	20
1,1-Dichloroethane	50.0	50.0		ug/L		100	80 - 120	0	20
1,1-Dichloroethene	50.0	48.6		ug/L		97	80 - 120	6	20
1,2,4-Trichlorobenzene	50.0	54.5		ug/L		109	71 - 126	1	20
1,2-Dibromo-3-Chloropropane	50.0	53.2		ug/L		106	74 - 120	2	20
1,2-Dibromoethane	50.0	51.4		ug/L		103	75 - 126	3	20
1,2-Dichlorobenzene	50.0	51.5		ug/L		103	80 - 120	0	20
1,2-Dichloroethane	50.0	49.6		ug/L		99	72 - 128	1	50
1,2-Dichloropropane	50.0	50.8		ug/L		102	80 - 120	1	20
1,3-Dichlorobenzene	50.0	51.7		ug/L		103	80 - 120	0	20
1,4-Dichlorobenzene	50.0	50.2		ug/L		100	80 - 120	1	20
2-Butanone	250	235		ug/L		94	79 - 125	3	20
2-Hexanone	250	258		ug/L		103	80 - 131	2	20
4-Methyl-2-pentanone	250	259		ug/L		104	80 - 134	3	20
Acetone	250	236		ug/L		94	68 - 132	2	30
Benzene	50.0	49.6		ug/L		99	80 - 120	1	20
Bromodichloromethane	50.0	53.3		ug/L		107	80 - 120	0	20
Bromoform	50.0	44.4		ug/L		89	52 - 122	2	20
Bromomethane	50.0	53.2		ug/L		106	43 - 146	7	20
Carbon disulfide	50.0	50.2		ug/L		100	77 - 129	2	20
Carbon tetrachloride	50.0	51.6		ug/L		103	67 - 125	0	20
Chlorobenzene	50.0	50.7		ug/L		101	80 - 120	1	20
Chloroethane	50.0	50.0		ug/L		100	48 - 145	1	20
Chloroform	50.0	50.1		ug/L		100	80 - 120	1	20
Chloromethane	50.0	50.6		ug/L		101	76 - 149	1	30
cis-1,2-Dichloroethene	50.0	50.2		ug/L		100	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	53.0		ug/L		106	80 - 129	0	20
Cyclohexane	50.0	50.1		ug/L		100	80 - 132	2	20
Dibromochloromethane	50.0	54.6		ug/L		109	68 - 120	1	20
Dichlorodifluoromethane	50.0	45.0		ug/L		90	70 - 137	3	40
Ethylbenzene	50.0	50.8		ug/L		102	80 - 120	1	20
Isopropylbenzene	50.0	52.0		ug/L		104	79 - 126	0	20
Methyl acetate	250	248		ug/L		99	73 - 139	3	20
Methyl tert-butyl ether	50.0	51.4		ug/L		103	80 - 122	2	20
Methylcyclohexane	50.0	51.2		ug/L		102	80 - 138	1	20
Methylene Chloride	50.0	50.3		ug/L		101	80 - 120	2	20
Naphthalene	50.0	54.6		ug/L		109	61 - 136	0	20
Styrene	50.0	52.8		ug/L		106	80 - 126	0	20
Tetrachloroethene	50.0	50.0		ug/L		100	71 - 123	2	20
Toluene	50.0	50.5		ug/L		101	80 - 120	0	20
trans-1,2-Dichloroethene	50.0	50.3		ug/L		101	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	54.6		ug/L		109	80 - 128	1	30
Trichloroethene	50.0	50.1		ug/L		100	80 - 120	0	20
Trichlorofluoromethane	50.0	48.7		ug/L		97	58 - 127	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-474707/5
Matrix: Water
Analysis Batch: 474707

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride			50.0	48.5		ug/L		97	80 - 129	1	20
Xylenes, Total			100	102		ug/L		102	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 122*
Toluene-d8 (Surr)	*102*		*80 - 120*

GC/MS VOA

Analysis Batch: 474430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-136723-1	SMW-1	Total/NA	Water	8260B	
680-136723-2	SMW-2	Total/NA	Water	8260B	
680-136723-3	SMW-3	Total/NA	Water	8260B	
680-136723-4	SMW-4	Total/NA	Water	8260B	
680-136723-5	SRW-1	Total/NA	Water	8260B	
680-136723-6	WMW-1	Total/NA	Water	8260B	
680-136723-7	YMW-1	Total/NA	Water	8260B	
680-136723-9	YMW-4	Total/NA	Water	8260B	
680-136723-10	YMW-5	Total/NA	Water	8260B	
680-136723-11	YMW-6	Total/NA	Water	8260B	
680-136723-12	YMW-7	Total/NA	Water	8260B	
680-136723-13	YMW-8	Total/NA	Water	8260B	
680-136723-14	YMW-9	Total/NA	Water	8260B	
680-136723-15	YMW-10	Total/NA	Water	8260B	
680-136723-16	YMW-11	Total/NA	Water	8260B	
680-136723-17	YMW-13	Total/NA	Water	8260B	
680-136723-27	HMW-1	Total/NA	Water	8260B	
680-136723-32	8260B Trip Blank	Total/NA	Water	8260B	
MB 680-474430/9	Method Blank	Total/NA	Water	8260B	
LCS 680-474430/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-474430/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 474577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-136723-2 - DL	SMW-2	Total/NA	Water	8260B	
680-136723-5 - DL	SRW-1	Total/NA	Water	8260B	
680-136723-8	YMW-2	Total/NA	Water	8260B	
680-136723-10 - DL	YMW-5	Total/NA	Water	8260B	
680-136723-11 - DL	YMW-6	Total/NA	Water	8260B	
680-136723-18	YMW-15	Total/NA	Water	8260B	
680-136723-19	YMW-14	Total/NA	Water	8260B	
680-136723-20 - DL	YMW-16	Total/NA	Water	8260B	
680-136723-21	YMW-17	Total/NA	Water	8260B	
680-136723-22	YMW-18	Total/NA	Water	8260B	
680-136723-23	YMW-19	Total/NA	Water	8260B	
680-136723-24 - DL	DUP-1	Total/NA	Water	8260B	
680-136723-25 - DL	DUP-2	Total/NA	Water	8260B	
680-136723-26	EQUIPMENT BLANK	Total/NA	Water	8260B	
680-136723-28	SW-1	Total/NA	Water	8260B	
680-136723-29	SW-2	Total/NA	Water	8260B	
680-136723-30	SW-3	Total/NA	Water	8260B	
680-136723-31	SW-4	Total/NA	Water	8260B	
MB 680-474577/9	Method Blank	Total/NA	Water	8260B	
LCS 680-474577/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-474577/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 474707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-136723-23 - DL	YMW-19	Total/NA	Water	8260B	
680-136723-28 - DL	SW-1	Total/NA	Water	8260B	
MB 680-474707/9	Method Blank	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 474707 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-474707/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-474707/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: SMW-1
Date Collected: 03/21/17 14:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474430	03/31/17 14:39	CEJ	TAL SAV

Client Sample ID: SMW-2
Date Collected: 03/21/17 13:45
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474430	03/31/17 15:02	CEJ	TAL SAV
Total/NA	Analysis	8260B	DL	2	474577	04/03/17 10:31	CEJ	TAL SAV

Client Sample ID: SMW-3
Date Collected: 03/21/17 16:50
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	474430	03/31/17 17:44	CEJ	TAL SAV

Client Sample ID: SMW-4
Date Collected: 03/21/17 16:55
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	474430	03/31/17 18:07	CEJ	TAL SAV

Client Sample ID: SRW-1
Date Collected: 03/21/17 15:05
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	474430	03/31/17 18:30	CEJ	TAL SAV
Total/NA	Analysis	8260B	DL	5	474577	04/03/17 11:17	CEJ	TAL SAV

Client Sample ID: WMW-1
Date Collected: 03/21/17 12:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474430	03/31/17 15:26	CEJ	TAL SAV

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-1
Date Collected: 03/21/17 11:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	474430	03/31/17 18:53	CEJ	TAL SAV

Client Sample ID: YMW-2
Date Collected: 03/22/17 16:55
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474577	04/03/17 10:08	CEJ	TAL SAV

Client Sample ID: YMW-4
Date Collected: 03/21/17 10:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474430	03/31/17 15:49	CEJ	TAL SAV

Client Sample ID: YMW-5
Date Collected: 03/23/17 12:40
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	474430	03/31/17 19:39	CEJ	TAL SAV
Total/NA	Analysis	8260B	DL	20	474577	04/03/17 11:40	CEJ	TAL SAV

Client Sample ID: YMW-6
Date Collected: 03/22/17 10:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474430	03/31/17 16:12	CEJ	TAL SAV
Total/NA	Analysis	8260B	DL	2	474577	04/03/17 10:54	CEJ	TAL SAV

Client Sample ID: YMW-7
Date Collected: 03/22/17 11:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	474430	03/31/17 20:02	CEJ	TAL SAV

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-8
Date Collected: 03/23/17 12:45
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474430	03/31/17 16:35	CEJ	TAL SAV

Client Sample ID: YMW-9
Date Collected: 03/22/17 17:20
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474430	03/31/17 16:58	CEJ	TAL SAV

Client Sample ID: YMW-10
Date Collected: 03/22/17 15:45
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	474430	03/31/17 20:25	CEJ	TAL SAV

Client Sample ID: YMW-11
Date Collected: 03/22/17 10:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474430	03/31/17 17:21	CEJ	TAL SAV

Client Sample ID: YMW-13
Date Collected: 03/22/17 12:00
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	474430	03/31/17 20:48	CEJ	TAL SAV

Client Sample ID: YMW-15
Date Collected: 03/22/17 14:50
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	474577	04/03/17 12:03	CEJ	TAL SAV

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: YMW-14
Date Collected: 03/22/17 15:55
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474577	04/03/17 12:26	CEJ	TAL SAV

Client Sample ID: YMW-16
Date Collected: 03/22/17 14:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	5	474577	04/03/17 15:30	CEJ	TAL SAV

Client Sample ID: YMW-17
Date Collected: 03/23/17 10:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474577	04/03/17 12:49	CEJ	TAL SAV

Client Sample ID: YMW-18
Date Collected: 03/23/17 11:30
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474577	04/03/17 13:12	CEJ	TAL SAV

Client Sample ID: YMW-19
Date Collected: 03/21/17 09:40
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474577	04/03/17 13:35	CEJ	TAL SAV
Total/NA	Analysis	8260B	DL	2	474707	04/04/17 10:08	CEJ	TAL SAV

Client Sample ID: DUP-1
Date Collected: 03/22/17 03:00
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	10	474577	04/03/17 15:53	CEJ	TAL SAV

Client Sample ID: DUP-2
Lab Sample ID: 680-136723-25
Date Collected: 03/23/17 00:00
Matrix: Water
Date Received: 03/24/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	20	474577	04/03/17 16:16	CEJ	TAL SAV

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: 680-136723-26
Date Collected: 03/21/17 17:30
Matrix: Water
Date Received: 03/24/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474577	04/03/17 13:58	CEJ	TAL SAV

Client Sample ID: HMW-1
Lab Sample ID: 680-136723-27
Date Collected: 03/20/17 16:15
Matrix: Water
Date Received: 03/24/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474430	03/31/17 14:16	CEJ	TAL SAV

Client Sample ID: SW-1
Lab Sample ID: 680-136723-28
Date Collected: 03/23/17 16:05
Matrix: Water
Date Received: 03/24/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	474577	04/03/17 16:39	CEJ	TAL SAV
Total/NA	Analysis	8260B	DL	5	474707	04/04/17 10:31	CEJ	TAL SAV

Client Sample ID: SW-2
Lab Sample ID: 680-136723-29
Date Collected: 03/23/17 15:45
Matrix: Water
Date Received: 03/24/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474577	04/03/17 14:21	CEJ	TAL SAV

Client Sample ID: SW-3
Lab Sample ID: 680-136723-30
Date Collected: 03/23/17 15:15
Matrix: Water
Date Received: 03/24/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474577	04/03/17 14:44	CEJ	TAL SAV

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Client Sample ID: SW-4

Lab Sample ID: 680-136723-31

Date Collected: 03/23/17 14:50

Matrix: Water

Date Received: 03/24/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474577	04/03/17 15:07	CEJ	TAL SAV

Client Sample ID: 8260B Trip Blank

Lab Sample ID: 680-136723-32

Date Collected: 03/23/17 00:00

Matrix: Water

Date Received: 03/24/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474430	03/31/17 13:53	CEJ	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Keaton Henry / Rob Andrews	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 680-82774-33705.1
Client Contact: Rachel Andrews	Phone: 770 473 2400	E-Mail: jerry.lanier@testamericainc.com		Page: Page 1 of 3
Company: Giant Cement				Job #:

Address: 654 Judge Street PO BOX 218	Due Date Requested:
City: Harleyville	TAT Requested (days):
State, Zip: SC, 29448	
Phone: 803-496-2851(Tel)	PO #: 316902
Email: randrews@earthcon.com	WO #:
Project Name: GCHI--SECHEM INC 1st event 2017	Project #: 68002623
Site:	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - (MOD) TCL OLM04.2 + Naphthalene	8260B_SIM - 1,4 Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A		
SMW-1	3/21/17	14:35	G	Water	N		3	3		
SMW-2	3/21/17	13:45	G	Water	N		3	3		
SMW-3	3/21/17	16:50	G	Water	N		3	3		
SMW-4	3/21/17	16:55	G	Water	N		3	3		
SRW-1	3/21/17	15:05	G	Water	N		3	3		
WMW-1	3/21/17	12:25	G	Water	N		3	3		
YMW-1	3/21/17	11:35	G	Water	N		3	3		
YMW-2	3/22/17	16:55	G	Water	N		3	3		
YMW-4	3/21/17	10:25	G	Water	N		3	3		
YMW-5	3/23/17	12:40	G	Water	N		3	3		
YMW-6	3/22/17	10:25	G	Water	N		3	3		

680-136723 Chain of Custody

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	3/23/17 17:30	Earthcon		3/23/17 17:30	TA
	3/22/17 17:40	TA			
				3-24-17 700	SAV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.7/2.4

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Keaton Henry/Rob Andrews	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 680-82774-33705.2
Client Contact: Rachel Andrews	Phone: 770-973-2100	E-Mail: jerry.lanier@testamericainc.com		Page: Page 2 of 3
Company: Giant Cement				Job #:
Address: 654 Judge Street PO BOX 218	Due Date Requested:			
City: Harleyville	TAT Requested (days):			
State, Zip: SC, 29448				
Phone: 803-496-2851(Tel)	PO #: 316902			
Email: randrews@earthcon.com	WO #:			
Project Name: GCHI--SECHEM INC 1st event 2017	Project #: 68002623			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260B - (MOD) TCL OLM04.2 + Naphthalene	8260B_SIM - 1,4 Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:			A	A		
YMW-7	3/22/17	11:35	G	Water	N	3	3		
YMW-8	3/23/17	12:45	G	Water	N	3	3		
YMW-9	3/22/17	17:20	G	Water	N	3	3		
YMW-10	3/22/17	15:45	G	Water	N	3	3		
YMW-11	3/22/17	10:25	G	Water	N	3	3		
YMW-13	3/22/17	12:00	G	Water	N	3	3		
YMW-15	3/22/17	14:50	G	Water	N	3	3		
YMW-14	3/22/17	15:55	G	Water	N	3	3		
YMW-16	3/22/17	14:25	G	Water	N	3	3		
YMW-17	3/23/17	10:35	G	Water	N	3	3		
YMW-18	3/23/17	11:30	G	Water	N	3	3		

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	3/23/17 17:30	Earth		3/23/17 17:30	
Relinquished by:	3/23/17 17:40		Received by:	3-24-17 700	SAV
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.7 2.4

681-Atlanta

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Kristen Henry/Rob Andrews	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 680-82774-33705.3
Client Contact: Rachel Andrews	Phone: 770-973-2100	E-Mail: jerry.lanier@testamericainc.com		Page: Page 3 of 3
Company: Giant Cement				Job #:
Address: 654 Judge Street PO BOX 218	Due Date Requested:	Analysis Requested		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify); Other:
City: Harleyville	TAT Requested (days):			
State, Zip: SC, 29448				
Phone: 803-496-2851(Tel)	PO #: 316902			
Email: randrews@earthcon.com	WO #:			
Project Name: GCHI--SECHEM INC 1st event 2017	Project #: 68002623			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260B - (MOD) TCL OLM04.2 + Naphthalene	8260B_SIM - 1,4 Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:			A	A		
YMW-19	3/21/17	9:40	G	Water	N	3	3		
DUP-1	3/22/17	—	G	Water	N	3	3		
DUP-2	3/23/17	—	G	Water	N	3	3		
EQUIPMENT BLANK	3/21/17	17:30	G	Water	N	3	3		
HMW-1	3/20/17	16:15	G	Water	N	3	3		KH
SW-1	3/23/17	16:05	G	Water	N	3	3		
SW-2	3/23/17	15:45	G	Water	N	3	3		
SW-3	3/23/17	15:15	G	Water	N	3	3		
SW-4	3/23/17	14:50	G	Water	N	3	3		
8260B Trip Blank	3/23/17	—	G	Water		2			
8260B SIM Trip Blank	3/23/17	—	G	Water			3		

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/23/17 17:30	Earthcon		3/23/17 17:30	TA
Relinquished by:	Date/Time: 3/23/17 17:40	Company	Received by:	Date/Time: 3-24-17 700	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.7, 2.4

681 Atlanta

Login Sample Receipt Checklist

Client: Giant Cement

Job Number: 680-136723-2

Login Number: 136723
List Number: 1
Creator: Flanagan, Naomi V

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-2

Laboratory: TestAmerica Savannah

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
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-18
Alaska	State Program	10		06-30-18
Alaska (UST)	State Program	10	UST-104	09-22-19
Arizona	State Program	9	AZ0808	12-14-18
Arkansas DEQ	State Program	6	88-0692	02-01-19
California	State Program	9	2939	06-30-18
Colorado	State Program	8	N/A	12-31-18
Connecticut	State Program	1	PH-0161	03-31-19
Florida	NELAP	4	E87052	06-30-18
GA Dept. of Agriculture	State Program	4	N/A	06-12-18
Georgia	State Program	4	803	06-30-18
Guam	State Program	9	15-005r	04-16-18
Hawaii	State Program	9	N/A	06-30-18
Illinois	NELAP	5	200022	11-30-18
Indiana	State Program	5	N/A	06-30-18
Iowa	State Program	7	353	06-30-19
Kentucky (DW)	State Program	4	90084	12-31-18
Kentucky (UST)	State Program	4	18	06-30-18
Kentucky (WW)	State Program	4	90084	12-31-18 *
L-A-B	DoD ELAP		L2463	09-22-19
L-A-B	ISO/IEC 17025		L2463.01	09-22-19
Louisiana	NELAP	6	30690	06-30-18
Louisiana (DW)	NELAP	6	LA160019	12-31-18
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-18
Massachusetts	State Program	1	M-GA006	06-30-18
Michigan	State Program	5	9925	06-30-18
Mississippi	State Program	4	N/A	06-30-18
Nebraska	State Program	7	TestAmerica-Savannah	06-30-18
New Jersey	NELAP	2	GA769	06-30-18
New Mexico	State Program	6	N/A	06-30-18
New York	NELAP	2	10842	03-31-18 *
North Carolina (DW)	State Program	4	13701	07-31-18
North Carolina (WW/SW)	State Program	4	269	12-31-18
Oklahoma	State Program	6	9984	08-31-18
Pennsylvania	NELAP	3	68-00474	06-30-18
Puerto Rico	State Program	2	GA00006	12-31-18
South Carolina	State Program	4	98001	06-30-18
Tennessee	State Program	4	TN02961	06-30-18
Texas	NELAP	6	T104704185-16-9	11-30-18
Texas	State Program	6	T104704185	06-30-18
US Fish & Wildlife	Federal		LE058448-0	07-31-18
USDA	Federal		SAV 3-04	06-14-20 *
Virginia	NELAP	3	460161	06-14-18
Washington	State Program	10	C805	06-10-18
West Virginia (DW)	State Program	3	9950C	12-31-18
West Virginia DEP	State Program	3	094	06-30-18
Wisconsin	State Program	5	999819810	08-31-18
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-136723-1
Client Project/Site: GCHI--SECHEM INC
Revision: 2

For:
Giant Cement
654 Judge Street
PO BOX 218
Harleyville, South Carolina 29448

Attn: Rachel Odzer

Authorized for release by:
6/12/2017 11:50:04 AM

Jerry Lanier, Project Manager I
(912)354-7858 e.3410
jerry.lanier@testamericainc.com

Table of Contents

Job ID: 680-136723-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Giant Cement

Project: GCHI--SECHEM INC

Report Number: 680-136723-1

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 the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 03/24/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.7º C and 2.4º C.

The sample time for DUP-1 (680-136723-24) was changed from 0:00 to 03:00 with client approval to prevent the data from improperly flagging out of hold. The sample was analyzed on the last day of hold for 1,4-Dioxane.

The final report was revised to report the sample results down to the laboratory MDL per cleint request. An additional final report was supplied per client request to split out the 8260B results and the 8260B SIM results.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples SMW-1 (680-136723-1), SMW-2 (680-136723-2), SMW-3 (680-136723-3), SMW-4 (680-136723-4), SRW-1 (680-136723-5), WMW-1 (680-136723-6), YMW-1 (680-136723-7), YMW-2 (680-136723-8), YMW-4 (680-136723-9), YMW-5 (680-136723-10), YMW-6 (680-136723-11), YMW-7 (680-136723-12), YMW-8 (680-136723-13), YMW-9 (680-136723-14), YMW-10 (680-136723-15), YMW-11 (680-136723-16), YMW-13 (680-136723-17), YMW-15 (680-136723-18), YMW-14 (680-136723-19), YMW-16 (680-136723-20), YMW-17 (680-136723-21), YMW-18 (680-136723-22), YMW-19 (680-136723-23), DUP-1 (680-136723-24), DUP-2 (680-136723-25), EQUIPMENT BLANK (680-136723-26), HMW-1 (680-136723-27), SW-1 (680-136723-28), SW-2 (680-136723-29), SW-3 (680-136723-30), SW-4 (680-136723-31) and 8260B SIM Trip Blank (680-136723-33) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 04/03/2017, 04/04/2017 and 04/05/2017.

1,4-Dioxane failed the recovery criteria high for the MS of sample YMW-18MS (680-136723-22) in batch 490-419829.

1,4-Dioxane exceeded the RPD limit for the MSD of sample YMW-18MSD (680-136723-22) in batch 490-419829.

1,4-Dioxane exceeded the RPD limit for the MSD of sample HMW-1MSD (680-136723-27) in batch 490-419216.

Refer to the QC report for details.

The following sample was diluted due to the nature of the sample matrix: SRW-1 (680-136723-5). Elevated reporting limits (RLs) are provided. The sample contained a high concentration of Trichloroethene.

Samples SMW-2 (680-136723-2)[50X], SMW-3 (680-136723-3)[100X], SMW-4 (680-136723-4)[50X], SRW-1 (680-136723-5)[100X], YMW-1 (680-136723-7)[10X], YMW-2 (680-136723-8)[10X], YMW-5 (680-136723-10)[200X], YMW-6 (680-136723-11)[50X], YMW-7 (680-136723-12)[100X], YMW-10 (680-136723-15)[100X], YMW-13 (680-136723-17)[100X], YMW-15 (680-136723-18)[200X], YMW-14 (680-136723-19)[5X], YMW-16 (680-136723-20)[50X], YMW-19 (680-136723-23)[50X], DUP-1 (680-136723-24)[100X], DUP-2 (680-136723-25)[200X], SW-1 (680-136723-28)[100X], SW-2 (680-136723-29)[10X] and SW-3 (680-136723-30)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Job ID: 680-136723-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

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

Sample Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-136723-1	SMW-1	Water	03/21/17 14:35	03/24/17 07:00
680-136723-2	SMW-2	Water	03/21/17 13:45	03/24/17 07:00
680-136723-3	SMW-3	Water	03/21/17 16:50	03/24/17 07:00
680-136723-4	SMW-4	Water	03/21/17 16:55	03/24/17 07:00
680-136723-5	SRW-1	Water	03/21/17 15:05	03/24/17 07:00
680-136723-6	WMW-1	Water	03/21/17 12:25	03/24/17 07:00
680-136723-7	YMW-1	Water	03/21/17 11:35	03/24/17 07:00
680-136723-8	YMW-2	Water	03/22/17 16:55	03/24/17 07:00
680-136723-9	YMW-4	Water	03/21/17 10:25	03/24/17 07:00
680-136723-10	YMW-5	Water	03/23/17 12:40	03/24/17 07:00
680-136723-11	YMW-6	Water	03/22/17 10:25	03/24/17 07:00
680-136723-12	YMW-7	Water	03/22/17 11:35	03/24/17 07:00
680-136723-13	YMW-8	Water	03/23/17 12:45	03/24/17 07:00
680-136723-14	YMW-9	Water	03/22/17 17:20	03/24/17 07:00
680-136723-15	YMW-10	Water	03/22/17 15:45	03/24/17 07:00
680-136723-16	YMW-11	Water	03/22/17 10:25	03/24/17 07:00
680-136723-17	YMW-13	Water	03/22/17 12:00	03/24/17 07:00
680-136723-18	YMW-15	Water	03/22/17 14:50	03/24/17 07:00
680-136723-19	YMW-14	Water	03/22/17 15:55	03/24/17 07:00
680-136723-20	YMW-16	Water	03/22/17 14:25	03/24/17 07:00
680-136723-21	YMW-17	Water	03/23/17 10:35	03/24/17 07:00
680-136723-22	YMW-18	Water	03/23/17 11:30	03/24/17 07:00
680-136723-23	YMW-19	Water	03/21/17 09:40	03/24/17 07:00
680-136723-24	DUP-1	Water	03/22/17 03:00	03/24/17 07:00
680-136723-25	DUP-2	Water	03/23/17 00:00	03/24/17 07:00
680-136723-26	EQUIPMENT BLANK	Water	03/21/17 17:30	03/24/17 07:00
680-136723-27	HMW-1	Water	03/20/17 16:15	03/24/17 07:00
680-136723-28	SW-1	Water	03/23/17 16:05	03/24/17 07:00
680-136723-29	SW-2	Water	03/23/17 15:45	03/24/17 07:00
680-136723-30	SW-3	Water	03/23/17 15:15	03/24/17 07:00
680-136723-31	SW-4	Water	03/23/17 14:50	03/24/17 07:00
680-136723-33	8260B SIM Trip Blank	Water	03/23/17 00:00	03/24/17 07:00

Method Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Method	Method Description	Protocol	Laboratory
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Definitions/Glossary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Qualifiers

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.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	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)

Detection Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: SMW-1 — Lab Sample ID: 680-136723-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.4		1.0	0.25	ug/L	1		8260B SIM	Total/NA

Client Sample ID: SMW-2 — Lab Sample ID: 680-136723-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	580		50	13	ug/L	50		8260B SIM	Total/NA

Client Sample ID: SMW-3 — Lab Sample ID: 680-136723-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1200		100	25	ug/L	100		8260B SIM	Total/NA

Client Sample ID: SMW-4 — Lab Sample ID: 680-136723-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	170		50	13	ug/L	50		8260B SIM	Total/NA

Client Sample ID: SRW-1 — Lab Sample ID: 680-136723-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	32	J	100	25	ug/L	100		8260B SIM	Total/NA

Client Sample ID: WMW-1 — Lab Sample ID: 680-136723-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.7		1.0	0.25	ug/L	1		8260B SIM	Total/NA

Client Sample ID: YMW-1 — Lab Sample ID: 680-136723-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	95	H	10	2.5	ug/L	10		8260B SIM	Total/NA

Client Sample ID: YMW-2 — Lab Sample ID: 680-136723-8

No Detections.

Client Sample ID: YMW-4 — Lab Sample ID: 680-136723-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.62	J	1.0	0.25	ug/L	1		8260B SIM	Total/NA

Client Sample ID: YMW-5 — Lab Sample ID: 680-136723-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	490		200	51	ug/L	200		8260B SIM	Total/NA

Client Sample ID: YMW-6 — Lab Sample ID: 680-136723-11

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah

Detection Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-7 — Lab Sample ID: 680-136723-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	76	J	100	25	ug/L	100		8260B SIM	Total/NA

Client Sample ID: YMW-8 — Lab Sample ID: 680-136723-13

No Detections.

Client Sample ID: YMW-9 — Lab Sample ID: 680-136723-14

No Detections.

Client Sample ID: YMW-10 — Lab Sample ID: 680-136723-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	200		100	25	ug/L	100		8260B SIM	Total/NA

Client Sample ID: YMW-11 — Lab Sample ID: 680-136723-16

No Detections.

Client Sample ID: YMW-13 — Lab Sample ID: 680-136723-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	150		100	25	ug/L	100		8260B SIM	Total/NA

Client Sample ID: YMW-15 — Lab Sample ID: 680-136723-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	420		200	51	ug/L	200		8260B SIM	Total/NA

Client Sample ID: YMW-14 — Lab Sample ID: 680-136723-19

No Detections.

Client Sample ID: YMW-16 — Lab Sample ID: 680-136723-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	31	J	50	13	ug/L	50		8260B SIM	Total/NA

Client Sample ID: YMW-17 — Lab Sample ID: 680-136723-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.41	J	1.0	0.25	ug/L	1		8260B SIM	Total/NA

Client Sample ID: YMW-18 — Lab Sample ID: 680-136723-22

No Detections.

Client Sample ID: YMW-19 — Lab Sample ID: 680-136723-23

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah

Detection Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: DUP-1 — Lab Sample ID: 680-136723-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	310		100	25	ug/L	100		8260B SIM	Total/NA

Client Sample ID: DUP-2 — Lab Sample ID: 680-136723-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	450		200	51	ug/L	200		8260B SIM	Total/NA

Client Sample ID: EQUIPMENT BLANK — Lab Sample ID: 680-136723-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.52	J	1.0	0.25	ug/L	1		8260B SIM	Total/NA

Client Sample ID: HMW-1 — Lab Sample ID: 680-136723-27

No Detections.

Client Sample ID: SW-1 — Lab Sample ID: 680-136723-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	170		100	25	ug/L	100		8260B SIM	Total/NA

Client Sample ID: SW-2 — Lab Sample ID: 680-136723-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	37		10	2.5	ug/L	10		8260B SIM	Total/NA

Client Sample ID: SW-3 — Lab Sample ID: 680-136723-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	14		5.0	1.3	ug/L	5		8260B SIM	Total/NA

Client Sample ID: SW-4 — Lab Sample ID: 680-136723-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	9.1		1.0	0.25	ug/L	1		8260B SIM	Total/NA

Client Sample ID: 8260B SIM Trip Blank — Lab Sample ID: 680-136723-33

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: SMW-1
Date Collected: 03/21/17 14:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-1
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.4		1.0	0.25	ug/L			04/03/17 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*04/03/17 17:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*04/03/17 17:06*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/03/17 17:06*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/03/17 17:06*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: SMW-2
Date Collected: 03/21/17 13:45
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-2
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	580		50	13	ug/L			04/04/17 21:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*04/04/17 21:59*	*50*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*04/04/17 21:59*	*50*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/04/17 21:59*	*50*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/04/17 21:59*	*50*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: SMW-3
Date Collected: 03/21/17 16:50
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-3
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1200		100	25	ug/L			04/04/17 22:26	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/04/17 22:26*	*100*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*04/04/17 22:26*	*100*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*04/04/17 22:26*	*100*
Toluene-d8 (Surr)	*99*		*70 - 130*		*04/04/17 22:26*	*100*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: SMW-4
Date Collected: 03/21/17 16:55
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-4
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	170		50	13	ug/L			04/04/17 22:53	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*04/04/17 22:53*	*50*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*04/04/17 22:53*	*50*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/04/17 22:53*	*50*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/04/17 22:53*	*50*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: SRW-1
Date Collected: 03/21/17 15:05
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-5
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	32	J	100	25	ug/L			04/03/17 20:45	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*04/03/17 20:45*	*100*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*04/03/17 20:45*	*100*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/03/17 20:45*	*100*
Toluene-d8 (Surr)	*99*		*70 - 130*		*04/03/17 20:45*	*100*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: WMW-1
Date Collected: 03/21/17 12:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-6
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.7		1.0	0.25	ug/L			04/03/17 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/03/17 17:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*04/03/17 17:33*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/03/17 17:33*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/03/17 17:33*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-1
Date Collected: 03/21/17 11:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-7
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	95	H	10	2.5	ug/L			04/04/17 23:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*04/04/17 23:21*	*10*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*04/04/17 23:21*	*10*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/04/17 23:21*	*10*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/04/17 23:21*	*10*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-2
Date Collected: 03/22/17 16:55
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-8
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.5	U	10	2.5	ug/L			04/05/17 01:37	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*04/05/17 01:37*	*10*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/05/17 01:37*	*10*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*04/05/17 01:37*	*10*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/05/17 01:37*	*10*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-4
Date Collected: 03/21/17 10:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-9
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.62	J	1.0	0.25	ug/L			04/03/17 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*04/03/17 18:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/03/17 18:00*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/03/17 18:00*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/03/17 18:00*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-5
Date Collected: 03/23/17 12:40
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-10
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	490		200	51	ug/L			04/05/17 17:46	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/05/17 17:46*	*200*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*04/05/17 17:46*	*200*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*04/05/17 17:46*	*200*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/05/17 17:46*	*200*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-6
Date Collected: 03/22/17 10:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-11
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	13	U	50	13	ug/L			04/05/17 02:04	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*04/05/17 02:04*	*50*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*04/05/17 02:04*	*50*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/05/17 02:04*	*50*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/05/17 02:04*	*50*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-7
Date Collected: 03/22/17 11:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-12
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	76	J	100	25	ug/L			04/05/17 02:59	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/05/17 02:59*	*100*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*04/05/17 02:59*	*100*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/05/17 02:59*	*100*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/05/17 02:59*	*100*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-8
Date Collected: 03/23/17 12:45
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-13
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.25	U	1.0	0.25	ug/L			04/05/17 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/05/17 19:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/05/17 19:08*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/05/17 19:08*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/05/17 19:08*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-9
Date Collected: 03/22/17 17:20
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-14
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.25	U	1.0	0.25	ug/L			04/05/17 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/05/17 00:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/05/17 00:15*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/05/17 00:15*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/05/17 00:15*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-10
Date Collected: 03/22/17 15:45
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-15
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	200		100	25	ug/L			04/05/17 03:26	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*04/05/17 03:26*	*100*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*04/05/17 03:26*	*100*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/05/17 03:26*	*100*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/05/17 03:26*	*100*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-11
Date Collected: 03/22/17 10:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-16
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.25	U	1.0	0.25	ug/L			04/05/17 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*04/05/17 00:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/05/17 00:43*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/05/17 00:43*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/05/17 00:43*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-13
Date Collected: 03/22/17 12:00
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-17
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	150		100	25	ug/L			04/05/17 03:54	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*04/05/17 03:54*	*100*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*04/05/17 03:54*	*100*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/05/17 03:54*	*100*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/05/17 03:54*	*100*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-15
Date Collected: 03/22/17 14:50
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-18
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	420		200	51	ug/L			04/05/17 04:49	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*04/05/17 04:49*	*200*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*04/05/17 04:49*	*200*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/05/17 04:49*	*200*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/05/17 04:49*	*200*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-14
Date Collected: 03/22/17 15:55
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-19
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.3	U	5.0	1.3	ug/L			04/05/17 01:10	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*04/05/17 01:10*	*5*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/05/17 01:10*	*5*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/05/17 01:10*	*5*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/05/17 01:10*	*5*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-16
Date Collected: 03/22/17 14:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-20
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	31	J	50	13	ug/L			04/05/17 02:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*04/05/17 02:32*	*50*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*04/05/17 02:32*	*50*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/05/17 02:32*	*50*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/05/17 02:32*	*50*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-17
Date Collected: 03/23/17 10:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-21
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.41	J	1.0	0.25	ug/L			04/05/17 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*04/05/17 15:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*04/05/17 15:29*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/05/17 15:29*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/05/17 15:29*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-18
Date Collected: 03/23/17 11:30
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-22
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.25	U F1 F2	1.0	0.25	ug/L			04/05/17 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*04/05/17 15:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/05/17 15:56*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/05/17 15:56*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/05/17 15:56*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-19
Date Collected: 03/21/17 09:40
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-23
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	13	U	50	13	ug/L			04/04/17 21:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*04/04/17 21:32*	*50*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*04/04/17 21:32*	*50*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/04/17 21:32*	*50*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/04/17 21:32*	*50*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: DUP-1
Date Collected: 03/22/17 03:00
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-24
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	310		100	25	ug/L			04/05/17 04:21	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/05/17 04:21*	*100*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*04/05/17 04:21*	*100*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/05/17 04:21*	*100*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/05/17 04:21*	*100*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: DUP-2
Date Collected: 03/23/17 00:00
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-25
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	450		200	51	ug/L			04/05/17 17:18	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*04/05/17 17:18*	*200*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*04/05/17 17:18*	*200*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/05/17 17:18*	*200*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/05/17 17:18*	*200*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: EQUIPMENT BLANK — **Lab Sample ID: 680-136723-26**
Date Collected: 03/21/17 17:30 — **Matrix: Water**
Date Received: 03/24/17 07:00

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.52	J	1.0	0.25	ug/L			04/03/17 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/03/17 16:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*04/03/17 16:39*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/03/17 16:39*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/03/17 16:39*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: HMW-1
Date Collected: 03/20/17 16:15
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-27
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.25	U F2	1.0	0.25	ug/L			04/03/17 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*04/03/17 15:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/03/17 15:38*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*04/03/17 15:38*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/03/17 15:38*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: SW-1
Date Collected: 03/23/17 16:05
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-28
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	170		100	25	ug/L			04/05/17 16:51	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*04/05/17 16:51*	*100*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*04/05/17 16:51*	*100*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/05/17 16:51*	*100*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/05/17 16:51*	*100*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: SW-2
Date Collected: 03/23/17 15:45
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-29
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	37		10	2.5	ug/L			04/05/17 16:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/05/17 16:23*	*10*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*04/05/17 16:23*	*10*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/05/17 16:23*	*10*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/05/17 16:23*	*10*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: SW-3
Date Collected: 03/23/17 15:15
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-30
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	14		5.0	1.3	ug/L			04/05/17 19:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*04/05/17 19:36*	*5*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*04/05/17 19:36*	*5*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/05/17 19:36*	*5*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/05/17 19:36*	*5*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: SW-4
Date Collected: 03/23/17 14:50
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-31
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	9.1		1.0	0.25	ug/L			04/05/17 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*04/05/17 14:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*04/05/17 14:06*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/05/17 14:06*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/05/17 14:06*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: 8260B SIM Trip Blank
Date Collected: 03/23/17 00:00
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-33
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.25	U	1.0	0.25	ug/L			04/05/17 13:39	1

Surrogate Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DBFM	12DCE	BFB	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
680-136723-1	SMW-1	101	95	101	98
680-136723-2	SMW-2	95	95	97	95
680-136723-3	SMW-3	98	90	96	99
680-136723-4	SMW-4	100	96	99	96
680-136723-5	SRW-1	96	97	101	99
680-136723-6	WMW-1	99	94	99	98
680-136723-7	YMW-1	97	97	98	96
680-136723-8	YMW-2	100	99	95	97
680-136723-9	YMW-4	100	101	101	98
680-136723-10	YMW-5	98	95	96	95
680-136723-11	YMW-6	96	96	99	96
680-136723-12	YMW-7	99	95	100	96
680-136723-13	YMW-8	99	99	97	96
680-136723-14	YMW-9	98	99	101	97
680-136723-15	YMW-10	95	95	98	95
680-136723-16	YMW-11	100	101	101	96
680-136723-16 MS	YMW-11	94	95	98	96
680-136723-16 MSD	YMW-11	99	95	95	96
680-136723-17	YMW-13	96	93	98	96
680-136723-18	YMW-15	96	95	100	97
680-136723-19	YMW-14	97	99	98	96
680-136723-20	YMW-16	96	95	99	96
680-136723-21	YMW-17	100	98	100	96
680-136723-22	YMW-18	95	99	98	96
680-136723-22 MS	YMW-18	95	94	98	96
680-136723-22 MSD	YMW-18	95	96	98	96
680-136723-23	YMW-19	100	96	99	96
680-136723-24	DUP-1	99	96	98	96
680-136723-25	DUP-2	95	95	97	95
680-136723-26	EQUIPMENT BLANK	99	97	100	98
680-136723-27	HMW-1	96	103	102	98
680-136723-27 MS	HMW-1	99	96	101	98
680-136723-27 MSD	HMW-1	99	96	99	97
680-136723-28	SW-1	100	97	100	95
680-136723-29	SW-2	99	94	98	96
680-136723-30	SW-3	97	95	98	96
680-136723-31	SW-4	100	96	100	96
LCS 490-419216/5	Lab Control Sample	100	96	102	98
LCS 490-419753/2	Lab Control Sample	95	93	98	97
LCS 490-419829/4	Lab Control Sample	99	94	98	96
LCSD 490-419753/3	Lab Control Sample Dup	99	95	96	96
LCSD 490-419829/5	Lab Control Sample Dup	100	95	97	97
MB 490-419216/8	Method Blank	100	102	103	97
MB 490-419753/6	Method Blank	99	100	98	96
MB 490-419829/8	Method Blank	100	99	100	96

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)

Surrogate Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-419216/8
Matrix: Water
Analysis Batch: 419216

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.25	U	1.0	0.25	ug/L			04/03/17 15:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*04/03/17 15:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/03/17 15:11*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*04/03/17 15:11*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/03/17 15:11*	*1*

Lab Sample ID: LCS 490-419216/5
Matrix: Water
Analysis Batch: 419216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			2.50	2.56		ug/L		103	18 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: 680-136723-27 MS
Matrix: Water
Analysis Batch: 419216

Client Sample ID: HMW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane	0.25	U F2	5.00	2.91		ug/L		58	40 - 160		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: 680-136723-27 MSD
Matrix: Water
Analysis Batch: 419216

Client Sample ID: HMW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	0.25	U F2	5.00	5.72	F2	ug/L		114	40 - 160	65	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Method: 8260B SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-419753/6
Matrix: Water
Analysis Batch: 419753

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.25	U	1.0	0.25	ug/L			04/04/17 21:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/04/17 21:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/04/17 21:05*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/04/17 21:05*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/04/17 21:05*	*1*

Lab Sample ID: LCS 490-419753/2
Matrix: Water
Analysis Batch: 419753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			5.00	6.16		ug/L		123	18 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 490-419753/3
Matrix: Water
Analysis Batch: 419753

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			5.00	5.92		ug/L		118	18 - 150	4	34

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: 680-136723-16 MS
Matrix: Water
Analysis Batch: 419753

Client Sample ID: YMW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane	0.25	U	5.00	3.52		ug/L		70	40 - 160		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Method: 8260B SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-136723-16 MSD
Matrix: Water
Analysis Batch: 419753

Client Sample ID: YMW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	0.25	U	5.00	5.46		ug/L		109	40 - 160	43	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 490-419829/8
Matrix: Water
Analysis Batch: 419829

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.25	U	1.0	0.25	ug/L			04/05/17 13:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*04/05/17 13:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/05/17 13:11*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/05/17 13:11*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/05/17 13:11*	*1*

Lab Sample ID: LCS 490-419829/4
Matrix: Water
Analysis Batch: 419829

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	5.00	5.87		ug/L		117	18 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 490-419829/5
Matrix: Water
Analysis Batch: 419829

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	5.00	5.85		ug/L		117	18 - 150	0	34

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Method: 8260B SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-136723-22 MS
Matrix: Water
Analysis Batch: 419829

Client Sample ID: YMW-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane	0.25	U F1 F2	5.00	12.0	F1	ug/L		240	40 - 160		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: 680-136723-22 MSD
Matrix: Water
Analysis Batch: 419829

Client Sample ID: YMW-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	0.25	U F1 F2	5.00	5.74	F2	ug/L		115	40 - 160	71	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

GC/MS VOA

Analysis Batch: 419216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-136723-1	SMW-1	Total/NA	Water	8260B SIM	
680-136723-5	SRW-1	Total/NA	Water	8260B SIM	
680-136723-6	WMW-1	Total/NA	Water	8260B SIM	
680-136723-9	YMW-4	Total/NA	Water	8260B SIM	
680-136723-26	EQUIPMENT BLANK	Total/NA	Water	8260B SIM	
680-136723-27	HMW-1	Total/NA	Water	8260B SIM	
MB 490-419216/8	Method Blank	Total/NA	Water	8260B SIM	
LCS 490-419216/5	Lab Control Sample	Total/NA	Water	8260B SIM	
680-136723-27 MS	HMW-1	Total/NA	Water	8260B SIM	
680-136723-27 MSD	HMW-1	Total/NA	Water	8260B SIM	

Analysis Batch: 419753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-136723-2	SMW-2	Total/NA	Water	8260B SIM	
680-136723-3	SMW-3	Total/NA	Water	8260B SIM	
680-136723-4	SMW-4	Total/NA	Water	8260B SIM	
680-136723-7	YMW-1	Total/NA	Water	8260B SIM	
680-136723-8	YMW-2	Total/NA	Water	8260B SIM	
680-136723-11	YMW-6	Total/NA	Water	8260B SIM	
680-136723-12	YMW-7	Total/NA	Water	8260B SIM	
680-136723-14	YMW-9	Total/NA	Water	8260B SIM	
680-136723-15	YMW-10	Total/NA	Water	8260B SIM	
680-136723-16	YMW-11	Total/NA	Water	8260B SIM	
680-136723-17	YMW-13	Total/NA	Water	8260B SIM	
680-136723-18	YMW-15	Total/NA	Water	8260B SIM	
680-136723-19	YMW-14	Total/NA	Water	8260B SIM	
680-136723-20	YMW-16	Total/NA	Water	8260B SIM	
680-136723-23	YMW-19	Total/NA	Water	8260B SIM	
680-136723-24	DUP-1	Total/NA	Water	8260B SIM	
MB 490-419753/6	Method Blank	Total/NA	Water	8260B SIM	
LCS 490-419753/2	Lab Control Sample	Total/NA	Water	8260B SIM	
LCSD 490-419753/3	Lab Control Sample Dup	Total/NA	Water	8260B SIM	
680-136723-16 MS	YMW-11	Total/NA	Water	8260B SIM	
680-136723-16 MSD	YMW-11	Total/NA	Water	8260B SIM	

Analysis Batch: 419829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-136723-10	YMW-5	Total/NA	Water	8260B SIM	
680-136723-13	YMW-8	Total/NA	Water	8260B SIM	
680-136723-21	YMW-17	Total/NA	Water	8260B SIM	
680-136723-22	YMW-18	Total/NA	Water	8260B SIM	
680-136723-25	DUP-2	Total/NA	Water	8260B SIM	
680-136723-28	SW-1	Total/NA	Water	8260B SIM	
680-136723-29	SW-2	Total/NA	Water	8260B SIM	
680-136723-30	SW-3	Total/NA	Water	8260B SIM	
680-136723-31	SW-4	Total/NA	Water	8260B SIM	
680-136723-33	8260B SIM Trip Blank	Total/NA	Water	8260B SIM	
MB 490-419829/8	Method Blank	Total/NA	Water	8260B SIM	
LCS 490-419829/4	Lab Control Sample	Total/NA	Water	8260B SIM	
LCSD 490-419829/5	Lab Control Sample Dup	Total/NA	Water	8260B SIM	
680-136723-22 MS	YMW-18	Total/NA	Water	8260B SIM	

GC/MS VOA (Continued)

Analysis Batch: 419829 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-136723-22 MSD	YMW-18	Total/NA	Water	8260B SIM	

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: SMW-1
Date Collected: 03/21/17 14:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	419216	04/03/17 17:06	EML	TAL NSH

Client Sample ID: SMW-2
Date Collected: 03/21/17 13:45
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		50	419753	04/04/17 21:59	EML	TAL NSH

Client Sample ID: SMW-3
Date Collected: 03/21/17 16:50
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		100	419753	04/04/17 22:26	EML	TAL NSH

Client Sample ID: SMW-4
Date Collected: 03/21/17 16:55
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		50	419753	04/04/17 22:53	EML	TAL NSH

Client Sample ID: SRW-1
Date Collected: 03/21/17 15:05
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		100	419216	04/03/17 20:45	EML	TAL NSH

Client Sample ID: WMW-1
Date Collected: 03/21/17 12:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	419216	04/03/17 17:33	EML	TAL NSH

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-1
Date Collected: 03/21/17 11:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		10	419753	04/04/17 23:21	EML	TAL NSH

Client Sample ID: YMW-2
Date Collected: 03/22/17 16:55
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		10	419753	04/05/17 01:37	EML	TAL NSH

Client Sample ID: YMW-4
Date Collected: 03/21/17 10:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	419216	04/03/17 18:00	EML	TAL NSH

Client Sample ID: YMW-5
Date Collected: 03/23/17 12:40
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		200	419829	04/05/17 17:46	EML	TAL NSH

Client Sample ID: YMW-6
Date Collected: 03/22/17 10:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		50	419753	04/05/17 02:04	EML	TAL NSH

Client Sample ID: YMW-7
Date Collected: 03/22/17 11:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		100	419753	04/05/17 02:59	EML	TAL NSH

Client Sample ID: YMW-8
Lab Sample ID: 680-136723-13
Date Collected: 03/23/17 12:45
Matrix: Water
Date Received: 03/24/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	419829	04/05/17 19:08	EML	TAL NSH

Client Sample ID: YMW-9
Lab Sample ID: 680-136723-14
Date Collected: 03/22/17 17:20
Matrix: Water
Date Received: 03/24/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	419753	04/05/17 00:15	EML	TAL NSH

Client Sample ID: YMW-10
Lab Sample ID: 680-136723-15
Date Collected: 03/22/17 15:45
Matrix: Water
Date Received: 03/24/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		100	419753	04/05/17 03:26	EML	TAL NSH

Client Sample ID: YMW-11
Lab Sample ID: 680-136723-16
Date Collected: 03/22/17 10:25
Matrix: Water
Date Received: 03/24/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	419753	04/05/17 00:43	EML	TAL NSH

Client Sample ID: YMW-13
Lab Sample ID: 680-136723-17
Date Collected: 03/22/17 12:00
Matrix: Water
Date Received: 03/24/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		100	419753	04/05/17 03:54	EML	TAL NSH

Client Sample ID: YMW-15
Lab Sample ID: 680-136723-18
Date Collected: 03/22/17 14:50
Matrix: Water
Date Received: 03/24/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		200	419753	04/05/17 04:49	EML	TAL NSH

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: YMW-14
Date Collected: 03/22/17 15:55
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		5	419753	04/05/17 01:10	EML	TAL NSH

Client Sample ID: YMW-16
Date Collected: 03/22/17 14:25
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		50	419753	04/05/17 02:32	EML	TAL NSH

Client Sample ID: YMW-17
Date Collected: 03/23/17 10:35
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	419829	04/05/17 15:29	EML	TAL NSH

Client Sample ID: YMW-18
Date Collected: 03/23/17 11:30
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	419829	04/05/17 15:56	EML	TAL NSH

Client Sample ID: YMW-19
Date Collected: 03/21/17 09:40
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		50	419753	04/04/17 21:32	EML	TAL NSH

Client Sample ID: DUP-1
Date Collected: 03/22/17 03:00
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		100	419753	04/05/17 04:21	EML	TAL NSH

Client Sample ID: DUP-2
Date Collected: 03/23/17 00:00
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		200	419829	04/05/17 17:18	EML	TAL NSH

Client Sample ID: EQUIPMENT BLANK
Date Collected: 03/21/17 17:30
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	419216	04/03/17 16:39	EML	TAL NSH

Client Sample ID: HMW-1
Date Collected: 03/20/17 16:15
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	419216	04/03/17 15:38	EML	TAL NSH

Client Sample ID: SW-1
Date Collected: 03/23/17 16:05
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		100	419829	04/05/17 16:51	EML	TAL NSH

Client Sample ID: SW-2
Date Collected: 03/23/17 15:45
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		10	419829	04/05/17 16:23	EML	TAL NSH

Client Sample ID: SW-3
Date Collected: 03/23/17 15:15
Date Received: 03/24/17 07:00

Lab Sample ID: 680-136723-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		5	419829	04/05/17 19:36	EML	TAL NSH

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Client Sample ID: SW-4

Lab Sample ID: 680-136723-31

Date Collected: 03/23/17 14:50

Matrix: Water

Date Received: 03/24/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	419829	04/05/17 14:06	EML	TAL NSH

Client Sample ID: 8260B SIM Trip Blank

Lab Sample ID: 680-136723-33

Date Collected: 03/23/17 00:00

Matrix: Water

Date Received: 03/24/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	419829	04/05/17 13:39	EML	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Keaten Henry / Rob Andrews	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 680-82774-33705.1
Client Contact: Rachel Andrews	Phone: 770 473 2400	E-Mail: jerry.lanier@testamericainc.com		Page: Page 1 of 3
Company: Giant Cement				Job #:
Address: 654 Judge Street PO BOX 218	Due Date Requested:			
City: Harleyville	TAT Requested (days):			
State, Zip: SC, 29448				
Phone: 803-496-2851(Tel)	PO #: 316902			
Email: randrews@earthcon.com	WO #:			
Project Name: GCHI--SECHEM INC 1st event 2017	Project #: 68002623			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - (MOD) TCL OLM04.2 + Naphthalene	8260B_SIM - 1,4 Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A		
SMW-1	3/21/17	14:35	G	Water	N		3	3		
SMW-2	3/21/17	13:45	G	Water	N		3	3		
SMW-3	3/21/17	16:50	G	Water	N		3	3		
SMW-4	3/21/17	16:55	G	Water	N		3	3		
SRW-1	3/21/17	15:05	G	Water	N		3	3		
WMW-1	3/21/17	12:25	G	Water	N		3	3		
YMW-1	3/21/17	11:35	G	Water	N		3	3		
YMW-2	3/22/17	16:55	G	Water	N		3	3		
YMW-4	3/21/17	10:25	G	Water	N		3	3		
YMW-5	3/23/17	12:40	G	Water	N		3	3		
YMW-6	3/22/17	10:25	G	Water	N		3	3		

680-136723 Chain of Custody

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Date/Time		Company		Date/Time		Company
Relinquished by:	3/23/17	17:30	Enthon	Received by:	3/23/17	17:30	TA
Relinquished by:	3/23/17	17:40	TA	Received by:			
Relinquished by:				Received by:	3-24-17	700	SRW

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.7/2.4

6/12/2017

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Keaton Henry/Rob Andrews	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 680-82774-33705.2
Client Contact: Rachel Andrews	Phone: 770-973-2100	E-Mail: jerry.lanier@testamericainc.com		Page: Page 2 of 3
Company: Giant Cement				Job #:
Address: 654 Judge Street PO BOX 218	Due Date Requested:			
City: Harleyville	TAT Requested (days):			
State, Zip: SC, 29448				
Phone: 803-496-2851(Tel)	PO #: 316902			
Email: randrews@earthcon.com	WO #:			
Project Name: GCHI--SECHEM INC 1st event 2017	Project #: 68002623			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260B - (MOD) TCL OLM04.2 + Naphthalene	8260B_SIM - 1,4 Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:			A	A		
YMW-7	3/22/17	11:35	G	Water	N	3	3		
YMW-8	3/23/17	12:45	G	Water	N	3	3		
YMW-9	3/22/17	17:20	G	Water	N	3	3		
YMW-10	3/22/17	15:45	G	Water	N	3	3		
YMW-11	3/22/17	10:25	G	Water	N	3	3		
YMW-13	3/22/17	12:00	G	Water	N	3	3		
YMW-15	3/22/17	14:50	G	Water	N	3	3		
YMW-14	3/22/17	15:55	G	Water	N	3	3		
YMW-16	3/22/17	14:25	G	Water	N	3	3		
YMW-17	3/23/17	10:35	G	Water	N	3	3		
YMW-18	3/23/17	11:30	G	Water	N	3	3		

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: 17:30	3/23/17 17:30	Earth	3/23/17	17:30	
Relinquished by:	3/23/17 17:40	Company	Received by:	3-24-17 700	Company STAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.7 2.4

681-Atlanta

6/12/2017

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Kristen Henry/Rob Andrews	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 680-82774-33705.3
Client Contact: Rachel Andrews	Phone: 770-973-2100	E-Mail: jerry.lanier@testamericainc.com		Page: Page 3 of 3
Company: Giant Cement				Job #:
Address: 654 Judge Street PO BOX 218	Due Date Requested:	Analysis Requested		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify); Other:
City: Harleyville	TAT Requested (days):			
State, Zip: SC, 29448				
Phone: 803-496-2851(Tel)	PO #: 316902			
Email: randrews@earthcon.com	WO #:			
Project Name: GCHI--SECHEM INC 1st event 2017	Project #: 68002623			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260B - (MOD) TCL OLM04.2 + Naphthalene	8260B_SIM - 1,4 Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:			X	A		
YMW-19	3/21/17	9:40	G	Water	N	3	3		
DUP-1	3/22/17	—	G	Water	N	3	3		
DUP-2	3/23/17	—	G	Water	N	3	3		
EQUIPMENT BLANK	3/21/17	17:30	G	Water	N	3	3		
HMW-1	3/20/17	16:15	G	Water	N	3	3		KH
SW-1	3/23/17	16:05	G	Water	N	3	3		
SW-2	3/23/17	15:45	G	Water	N	3	3		
SW-3	3/23/17	15:15	G	Water	N	3	3		
SW-4	3/23/17	14:50	G	Water	N	3	3		
8260B Trip Blank	3/23/17	—	G	Water		2			
8260B SIM Trip Blank	3/23/17	—	G	Water			3		

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/23/17 17:30	Earthcon		3/23/17 17:30	TA
2		3/23/17 17:40			3-24-17 700	STL
3						

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.7, 2.4

Page 59 of 68

6/12/2017

681 Atlanta

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

6/12/2017

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 680-472210.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jerry.lanier@testamericainc.com	State of Origin: South Carolina	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Georgia		Job #: 680-136723-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 4/5/2017			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: GCHI--SECHEM INC	Project #: 68002623			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_SIM/5030B (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SMW-1 (680-136723-1)	3/21/17	14:35 Eastern		Water			X	3	
SMW-2 (680-136723-2)	3/21/17	13:45 Eastern		Water			X	3	
SMW-3 (680-136723-3)	3/21/17	16:50 Eastern		Water			X	3	
SMW-4 (680-136723-4)	3/21/17	16:55 Eastern		Water			X	3	
SRW-1 (680-136723-5)	3/21/17	15:05 Eastern		Water			X	3	
WMW-1 (680-136723-6)	3/21/17	12:25 Eastern		Water			X	3	
YMW-1 (680-136723-7)	3/21/17	11:35 Eastern		Water			X	3	
YMW-2 (680-136723-8)	3/22/17	16:55 Eastern		Water			X	3	
YMW-4 (680-136723-9)	3/21/17	10:25 Eastern		Water			X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	03-27-17 1232	SAW		3-28-17 0900	TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.7

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

Loc: 680
136723

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

6/12/2017

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A	Carr	COC No: 680-472210.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: jerry.lanier@testamericainc.com	State of Origin: South Carolina	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Georgia		Job #: 680-136723-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 4/5/2017			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: GCHI--SECHEM INC	Project #: 68002623			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_SIM/5030B (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
YMW-5 (680-136723-10)	3/23/17	12:40 Eastern		Water			X	3	
YMW-6 (680-136723-11)	3/22/17	10:25 Eastern		Water			X	3	
YMW-7 (680-136723-12)	3/22/17	11:35 Eastern		Water			X	3	
YMW-8 (680-136723-13)	3/23/17	12:45 Eastern		Water			X	3	
YMW-9 (680-136723-14)	3/22/17	17:20 Eastern		Water			X	3	
YMW-10 (680-136723-15)	3/22/17	15:45 Eastern		Water			X	3	
YMW-11 (680-136723-16)	3/22/17	10:25 Eastern		Water			X	3	
YMW-13 (680-136723-17)	3/22/17	12:00 Eastern		Water			X	3	
YMW-15 (680-136723-18)	3/22/17	14:50 Eastern		Water			X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 032717 1232	Company SAV	Received by:	Date/Time: 3-28-17 0900	Company TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.7

Loc: 680
136723

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

6/12/2017

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A	Can	COC No: 680-472210.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: jerry.lanier@testamericainc.com	State of Origin: South Carolina	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Georgia		Job #: 680-136723-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 4/5/2017			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: GCHI--SECHEM INC	Project #: 68002623			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_SIM/5030B (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X			
YMW-14 (680-136723-19)	3/22/17	15:55 Eastern		Water			X	3	
YMW-16 (680-136723-20)	3/22/17	14:25 Eastern		Water			X	3	
YMW-17 (680-136723-21)	3/23/17	10:35 Eastern		Water			X	3	
YMW-18 (680-136723-22)	3/23/17	11:30 Eastern		Water			X	3	
YMW-19 (680-136723-23)	3/21/17	09:40 Eastern		Water			X	3	
DUP-1 (680-136723-24)	3/22/17	Eastern		Water			X	3	
DUP-2 (680-136723-25)	3/23/17	Eastern		Water			X	3	
EQUIPMENT BLANK (680-136723-26)	3/21/17	17:30 Eastern		Water			X	3	
HMW-1 (680-136723-27)	3/20/17	16:15 Eastern		Water			X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 032717 1232	Company SW	Received by:	Date/Time: 3-28-17 0900	Company TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.7

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Loc: 680
136723

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

6/12/2017

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A	C:	COC No: 680-472210.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: jerry.lanier@testamericainc.com	State of Origin: South Carolina	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Georgia		Job #: 680-136723-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 4/5/2017			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: GCHI--SECHEM INC	Project #: 68002623			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_SIM/5030B (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SW-1 (680-136723-28)	3/23/17	16:05 Eastern		Water			X	3	
SW-2 (680-136723-29)	3/23/17	15:45 Eastern		Water			X	3	
SW-3 (680-136723-30)	3/23/17	15:15 Eastern		Water			X	3	
SW-4 (680-136723-31)	3/23/17	14:50 Eastern		Water			X	3	
8260B SIM Trip Blank (680-136723-33)	3/23/17	Eastern		Water			X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 03-27-17 1232	Company: SAV	Received by:	Date/Time: 3-28-17 0900	Company: TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.7

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

Loc: 680
136723

COOLER RECEIPT FORM

Cooler Received/Opened On 3/28/2017 @ 0900

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 3611 (last 4 digits, FedEx) Courier: _FedEx_

IR Gun ID 31470368 pH Strip Lot_____ Chlorine Strip Lot_____

2. Temperature of rep. sample or temp blank when opened: 3.7 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) PM

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? YES..NO Was a NCM generated? YES..NO..#_____

BIS = Broken in shipment

Login Sample Receipt Checklist

Client: Giant Cement

Job Number: 680-136723-1

Login Number: 136723
List Number: 1
Creator: Flanagan, Naomi V

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Giant Cement

Job Number: 680-136723-1

Login Number: 136723
List Number: 2
Creator: Armstrong, Daniel

List Source: TestAmerica Nashville
List Creation: 03/28/17 05:21 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Giant Cement

Job Number: 680-136723-1

Login Number: 136723
List Number: 3
Creator: Armstrong, Daniel

List Source: TestAmerica Nashville
List Creation: 03/28/17 05:21 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-136723-1

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E87052	06-30-17 *

Laboratory: TestAmerica Nashville

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
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	09-01-17
Arizona	State Program	9	AZ0473	05-05-18
Arkansas DEQ	State Program	6	88-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-17
Georgia	State Program	4	N/A	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	10-31-17
Kentucky (UST)	State Program	4	19	06-30-17
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30613	06-30-17
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-17
Minnesota	NELAP	5	047-999-345	12-31-17
Mississippi	State Program	4	N/A	06-30-17
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-17
New Hampshire	NELAP	1	2963	10-09-17
New Jersey	NELAP	2	TN965	06-30-17
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	06-30-17
Ohio VAP	State Program	5	CL0033	07-10-17
Oklahoma	State Program	6	9412	08-31-17
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	68-00585	06-30-17
Rhode Island	State Program	1	LAO00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-17
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-17
Virginia	NELAP	3	460152	06-14-17
Washington	State Program	10	C789	07-19-17
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-17
Wyoming (UST)	A2LA	8	453.07	12-31-17

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-143139-1
Client Project/Site: GCHI--SECHEM INC
Revision: 1

For:
Giant Cement
654 Judge Street
PO BOX 218
Harleyville, South Carolina 29448

Attn: Rachel Odzer

Authorized for release by:
2/22/2018 11:03:44 AM

Jerry Lanier, Project Manager I
(912)354-7858 e.3410
jerry.lanier@testamericainc.com

Table of Contents

Job ID: 680-143139-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Giant Cement

Project: GCHI--SECHEM INC

Report Number: 680-143139-1

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 the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 09/16/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

The final report was revised to remove Total 1,2-DCB from the report per client request.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WMW-1 (680-143139-1), YMW-1 (680-143139-2), YMW-4 (680-143139-3), YMW-5 (680-143139-4), YMW-6 (680-143139-5), YMW-7 (680-143139-6), YMW-9 (680-143139-7), YMW-10 (680-143139-8), YMW-11 (680-143139-9), YMW-13 (680-143139-10), YMW-16 (680-143139-11), YMW-19 (680-143139-12), TRIP BLANK (680-143139-13), EQUIPMENT BLANK (680-143139-14), DUP-1 (680-143139-15), DUP-2 (680-143139-16), HMW-1 (680-143139-17), SMW-1 (680-143139-18), SMW-3 (680-143139-19), SMW-4 (680-143139-20), SRW-1 (680-143139-21) and TRIP BLANK (680-143139-22) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 09/20/2017, 09/21/2017, 09/22/2017, 09/26/2017, 09/27/2017 and 09/28/2017.

Sample TRIP BLANK (680-143139-22) (Trip blank) was analyzed immediately following a high concentration sample. The analysis contained a detection for cis-2-1,2-dichloroethene and trichloroethene above the reporting limit (RL). Due to insufficient sample remaining for reanalysis the data has been reported and addressed.

The following analyte(s) recovered outside control limits for the LCS associated with analytical batch 680-495263: Methyl acetate. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

The following analytes recovered outside control limits for the laboratory control sample and laboratory control sample duplicate (LCS/LCSD) associated with analytical batch 680-495583: tetrachloroethene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

The following analytes recovered outside control limits for the laboratory control sample and laboratory control sample duplicate (LCS/LCSD) associated with analytical batch 680-496404: 1,2-Dibromo-3-Chloropropane . This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

1,2-Dibromo-3-Chloropropane failed the recovery criteria high for LCSD 680-496404/4. Refer to the QC report for details.

Refer to the QC report for details.

Samples YMW-1 (680-143139-2)[2X], YMW-5 (680-143139-4)[20X], YMW-5 (680-143139-4)[50X], YMW-6 (680-143139-5)[2X], YMW-7

Job ID: 680-143139-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

(680-143139-6)[5X], YMW-10 (680-143139-8)[10X], YMW-13 (680-143139-10)[10X], YMW-16 (680-143139-11)[5X], YMW-19 (680-143139-12)[50X], DUP-1 (680-143139-15)[10X], DUP-1 (680-143139-15)[100X], DUP-2 (680-143139-16)[10X], SMW-3 (680-143139-19)[10X], SMW-4 (680-143139-20)[50X] and SRW-1 (680-143139-21)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batches 680-495583, 680-495649, and 680-496038.

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

Sample Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-143139-1	WMW-1	Water	09/14/17 14:15	09/16/17 08:50
680-143139-2	YMW-1	Water	09/14/17 10:18	09/16/17 08:50
680-143139-3	YMW-4	Water	09/14/17 10:45	09/16/17 08:50
680-143139-4	YMW-5	Water	09/14/17 13:31	09/16/17 08:50
680-143139-5	YMW-6	Water	09/15/17 09:45	09/16/17 08:50
680-143139-6	YMW-7	Water	09/15/17 12:25	09/16/17 08:50
680-143139-7	YMW-9	Water	09/15/17 10:25	09/16/17 08:50
680-143139-8	YMW-10	Water	09/15/17 11:50	09/16/17 08:50
680-143139-9	YMW-11	Water	09/15/17 10:55	09/16/17 08:50
680-143139-10	YMW-13	Water	09/14/17 16:21	09/16/17 08:50
680-143139-11	YMW-16	Water	09/15/17 13:08	09/16/17 08:50
680-143139-12	YMW-19	Water	09/13/17 16:15	09/16/17 08:50
680-143139-13	TRIP BLANK	Water	09/13/17 00:00	09/16/17 08:50
680-143139-14	EQUIPMENT BLANK	Water	09/14/17 18:25	09/16/17 08:50
680-143139-15	DUP-1	Water	09/14/17 00:00	09/16/17 08:50
680-143139-16	DUP-2	Water	09/15/17 00:00	09/16/17 08:50
680-143139-17	HMW-1	Water	09/13/17 15:40	09/16/17 08:50
680-143139-18	SMW-1	Water	09/14/17 16:10	09/16/17 08:50
680-143139-19	SMW-3	Water	09/14/17 17:45	09/16/17 08:50
680-143139-20	SMW-4	Water	09/13/17 17:10	09/16/17 08:50
680-143139-21	SRW-1	Water	09/14/17 18:24	09/16/17 08:50
680-143139-22	TRIP BLANK	Water	09/15/17 00:00	09/16/17 08:50

Method Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Definitions/Glossary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	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)

Detection Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: WMW-1 — Lab Sample ID: 680-143139-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.6		1.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.4		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	1.5		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: YMW-1 — Lab Sample ID: 680-143139-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.3		2.0		ug/L	2		8260B	Total/NA
1,1,2-Trichloroethane	2.5		2.0		ug/L	2		8260B	Total/NA
1,1-Dichloroethene	4.6		2.0		ug/L	2		8260B	Total/NA
1,2-Dichlorobenzene	22		2.0		ug/L	2		8260B	Total/NA
1,3-Dichlorobenzene	6.5		2.0		ug/L	2		8260B	Total/NA
1,4-Dichlorobenzene	5.2		2.0		ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	54		2.0		ug/L	2		8260B	Total/NA
Tetrachloroethene	63	*	2.0		ug/L	2		8260B	Total/NA
Trichloroethene	36		2.0		ug/L	2		8260B	Total/NA

Client Sample ID: YMW-4 — Lab Sample ID: 680-143139-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.1		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: YMW-5 — Lab Sample ID: 680-143139-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	29		20		ug/L	20		8260B	Total/NA
1,1-Dichloroethane	140		20		ug/L	20		8260B	Total/NA
1,1-Dichloroethene	590		20		ug/L	20		8260B	Total/NA
1,2-Dichlorobenzene	1700		20		ug/L	20		8260B	Total/NA
1,2-Dichloroethane	210		20		ug/L	20		8260B	Total/NA
1,3-Dichlorobenzene	350		20		ug/L	20		8260B	Total/NA
1,4-Dichlorobenzene	390		20		ug/L	20		8260B	Total/NA
Benzene	33		20		ug/L	20		8260B	Total/NA
Chlorobenzene	76		20		ug/L	20		8260B	Total/NA
Tetrachloroethene	1600	*	20		ug/L	20		8260B	Total/NA
Trichloroethene	1700		20		ug/L	20		8260B	Total/NA
Vinyl chloride	220		20		ug/L	20		8260B	Total/NA
Xylenes, Total	33		20		ug/L	20		8260B	Total/NA
cis-1,2-Dichloroethene - DL	4100		50		ug/L	50		8260B	Total/NA

Client Sample ID: YMW-6 — Lab Sample ID: 680-143139-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	4.9		2.0		ug/L	2		8260B	Total/NA
1,1-Dichloroethene	11		2.0		ug/L	2		8260B	Total/NA
1,2-Dichlorobenzene	3.0		2.0		ug/L	2		8260B	Total/NA
1,2-Dichloroethane	15		2.0		ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	53		2.0		ug/L	2		8260B	Total/NA
Tetrachloroethene	48	*	2.0		ug/L	2		8260B	Total/NA
Trichloroethene	180		2.0		ug/L	2		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: YMW-7 — Lab Sample ID: 680-143139-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	9.8		5.0		ug/L	5		8260B	Total/NA
1,1-Dichloroethene	75		5.0		ug/L	5		8260B	Total/NA
1,2-Dichloroethane	82		5.0		ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene	120		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene	170	*	5.0		ug/L	5		8260B	Total/NA
Trichloroethene	510		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: YMW-9 — Lab Sample ID: 680-143139-7

No Detections.

Client Sample ID: YMW-10 — Lab Sample ID: 680-143139-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	13		10		ug/L	10		8260B	Total/NA
1,1-Dichloroethane	47		10		ug/L	10		8260B	Total/NA
1,1-Dichloroethene	110		10		ug/L	10		8260B	Total/NA
1,2-Dichlorobenzene	290		10		ug/L	10		8260B	Total/NA
1,2-Dichloroethane	44		10		ug/L	10		8260B	Total/NA
1,3-Dichlorobenzene	66		10		ug/L	10		8260B	Total/NA
1,4-Dichlorobenzene	72		10		ug/L	10		8260B	Total/NA
Chlorobenzene	17		10		ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene	870		10		ug/L	10		8260B	Total/NA
Tetrachloroethene	580	*	10		ug/L	10		8260B	Total/NA
Trichloroethene	570		10		ug/L	10		8260B	Total/NA
Vinyl chloride	150		10		ug/L	10		8260B	Total/NA

Client Sample ID: YMW-11 — Lab Sample ID: 680-143139-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.3		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: YMW-13 — Lab Sample ID: 680-143139-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	11		10		ug/L	10		8260B	Total/NA
1,1-Dichloroethene	330		10		ug/L	10		8260B	Total/NA
1,2-Dichloroethane	180		10		ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene	490		10		ug/L	10		8260B	Total/NA
Tetrachloroethene	240	*	10		ug/L	10		8260B	Total/NA
Trichloroethene	560		10		ug/L	10		8260B	Total/NA

Client Sample ID: YMW-16 — Lab Sample ID: 680-143139-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	6.5		5.0		ug/L	5		8260B	Total/NA
1,1-Dichloroethane	24		5.0		ug/L	5		8260B	Total/NA
1,1-Dichloroethene	140		5.0		ug/L	5		8260B	Total/NA
1,2-Dichloroethane	32		5.0		ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene	700		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene	670	*	5.0		ug/L	5		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah

Detection Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: YMW-16 (Continued) — Lab Sample ID: 680-143139-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	480		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: YMW-19 — Lab Sample ID: 680-143139-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	80		50		ug/L	50		8260B	Total/NA
Tetrachloroethene	180		50		ug/L	50		8260B	Total/NA
Trichloroethene	180		50		ug/L	50		8260B	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 680-143139-13

No Detections.

Client Sample ID: EQUIPMENT BLANK — Lab Sample ID: 680-143139-14

No Detections.

Client Sample ID: DUP-1 — Lab Sample ID: 680-143139-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	31		10		ug/L	10		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	10		10		ug/L	10		8260B	Total/NA
1,1,2-Trichloroethane	65		10		ug/L	10		8260B	Total/NA
1,1-Dichloroethane	160		10		ug/L	10		8260B	Total/NA
1,1-Dichloroethene	650		10		ug/L	10		8260B	Total/NA
1,2-Dichlorobenzene	1800		10		ug/L	10		8260B	Total/NA
1,2-Dichloroethane	230		10		ug/L	10		8260B	Total/NA
1,3-Dichlorobenzene	370		10		ug/L	10		8260B	Total/NA
1,4-Dichlorobenzene	410		10		ug/L	10		8260B	Total/NA
Benzene	36		10		ug/L	10		8260B	Total/NA
Chlorobenzene	84		10		ug/L	10		8260B	Total/NA
Isopropylbenzene	19		10		ug/L	10		8260B	Total/NA
Tetrachloroethene	1800	*	10		ug/L	10		8260B	Total/NA
Trichloroethene	1800		10		ug/L	10		8260B	Total/NA
Vinyl chloride	230		10		ug/L	10		8260B	Total/NA
Xylenes, Total	37		10		ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene - DL	4000		100		ug/L	100		8260B	Total/NA

Client Sample ID: DUP-2 — Lab Sample ID: 680-143139-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	11		1.0		ug/L	1		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	2.2		1.0		ug/L	1		8260B	Total/NA
1,1,2-Trichloroethane	6.3		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethane	39		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	110		1.0		ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	330		10		ug/L	10		8260B	Total/NA
1,2-Dichloroethane	37		1.0		ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	56		1.0		ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	58		1.0		ug/L	1		8260B	Total/NA
Benzene	5.9		1.0		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-2 (Continued) — Lab Sample ID: 680-143139-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	14		1.0		ug/L	1		8260B	Total/NA
Chloroform	1.6		1.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1000		10		ug/L	10		8260B	Total/NA
Ethylbenzene	2.4		1.0		ug/L	1		8260B	Total/NA
Isopropylbenzene	2.0		1.0		ug/L	1		8260B	Total/NA
Naphthalene	5.4		5.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	490		10		ug/L	10		8260B	Total/NA
Toluene	3.8		1.0		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.9		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	580		10		ug/L	10		8260B	Total/NA
Vinyl chloride	150		1.0		ug/L	1		8260B	Total/NA
Xylenes, Total	6.0		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: HMW-1 — Lab Sample ID: 680-143139-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	6.4		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SMW-1 — Lab Sample ID: 680-143139-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.0		1.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.1		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	2.0		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	3.0		1.0		ug/L	1		8260B	Total/NA
Vinyl chloride	1.8		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SMW-3 — Lab Sample ID: 680-143139-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloroethane	21		10		ug/L	10		8260B	Total/NA
1,1-Dichloroethane	96		10		ug/L	10		8260B	Total/NA
1,1-Dichloroethene	76		10		ug/L	10		8260B	Total/NA
1,2-Dichlorobenzene	1200		10		ug/L	10		8260B	Total/NA
1,2-Dichloroethane	390		10		ug/L	10		8260B	Total/NA
1,3-Dichlorobenzene	380		10		ug/L	10		8260B	Total/NA
1,4-Dichlorobenzene	250		10		ug/L	10		8260B	Total/NA
4-Methyl-2-pentanone	3200		100		ug/L	10		8260B	Total/NA
Acetone	430		100		ug/L	10		8260B	Total/NA
Benzene	13		10		ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene	700		10		ug/L	10		8260B	Total/NA
Ethylbenzene	46		10		ug/L	10		8260B	Total/NA
Tetrachloroethene	59	*	10		ug/L	10		8260B	Total/NA
Toluene	37		10		ug/L	10		8260B	Total/NA
Trichloroethene	45		10		ug/L	10		8260B	Total/NA
Vinyl chloride	250		10		ug/L	10		8260B	Total/NA
Xylenes, Total	1400		10		ug/L	10		8260B	Total/NA

Client Sample ID: SMW-4 — Lab Sample ID: 680-143139-20

This Detection Summary does not include radiochemical test results.

Client Sample ID: SMW-4 (Continued) — Lab Sample ID: 680-143139-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	370		50		ug/L	50		8260B	Total/NA
Trichloroethene	60		50		ug/L	50		8260B	Total/NA

Client Sample ID: SRW-1 — Lab Sample ID: 680-143139-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	36		5.0		ug/L	5		8260B	Total/NA
1,1-Dichloroethene	88		5.0		ug/L	5		8260B	Total/NA
1,2-Dichlorobenzene	9.8		5.0		ug/L	5		8260B	Total/NA
1,2-Dichloroethane	140		5.0		ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene	240		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene	590	*	5.0		ug/L	5		8260B	Total/NA
Trichloroethene	400		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 680-143139-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.3		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	1.2		1.0		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: WMW-1
Date Collected: 09/14/17 14:15
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/22/17 16:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/22/17 16:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/22/17 16:03	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/22/17 16:03	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/22/17 16:03	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 16:03	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/22/17 16:03	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/22/17 16:03	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/22/17 16:03	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 16:03	1
1,2-Dichloroethane	**1.6**		1.0		ug/L			09/22/17 16:03	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/22/17 16:03	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 16:03	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 16:03	1
2-Butanone	10	U	10		ug/L			09/22/17 16:03	1
2-Hexanone	10	U	10		ug/L			09/22/17 16:03	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/22/17 16:03	1
Acetone	10	U	10		ug/L			09/22/17 16:03	1
Benzene	1.0	U	1.0		ug/L			09/22/17 16:03	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/22/17 16:03	1
Bromoform	1.0	U	1.0		ug/L			09/22/17 16:03	1
Bromomethane	5.0	U	5.0		ug/L			09/22/17 16:03	1
Carbon disulfide	2.0	U	2.0		ug/L			09/22/17 16:03	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/22/17 16:03	1
Chlorobenzene	1.0	U	1.0		ug/L			09/22/17 16:03	1
Chloroethane	5.0	U	5.0		ug/L			09/22/17 16:03	1
Chloroform	1.0	U	1.0		ug/L			09/22/17 16:03	1
Chloromethane	1.0	U	1.0		ug/L			09/22/17 16:03	1
cis-1,2-Dichloroethene	**1.4**		1.0		ug/L			09/22/17 16:03	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/22/17 16:03	1
Cyclohexane	1.0	U	1.0		ug/L			09/22/17 16:03	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/22/17 16:03	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/22/17 16:03	1
Ethylbenzene	1.0	U	1.0		ug/L			09/22/17 16:03	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/22/17 16:03	1
Methyl acetate	5.0	U	5.0		ug/L			09/22/17 16:03	1
Methyl tert-butyl ether	10	U	10		ug/L			09/22/17 16:03	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/22/17 16:03	1
Methylene Chloride	5.0	U	5.0		ug/L			09/22/17 16:03	1
Naphthalene	5.0	U	5.0		ug/L			09/22/17 16:03	1
Styrene	1.0	U	1.0		ug/L			09/22/17 16:03	1
Tetrachloroethene	1.0	U	1.0		ug/L			09/22/17 16:03	1
Toluene	1.0	U	1.0		ug/L			09/22/17 16:03	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 16:03	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/22/17 16:03	1
Trichloroethene	**1.5**		1.0		ug/L			09/22/17 16:03	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/22/17 16:03	1
Vinyl chloride	1.0	U	1.0		ug/L			09/22/17 16:03	1
Xylenes, Total	1.0	U	1.0		ug/L			09/22/17 16:03	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: WMW-1
Date Collected: 09/14/17 14:15
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 131*		*09/22/17 16:03*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/22/17 16:03*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*09/22/17 16:03*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/22/17 16:03*	*1*

Client Sample ID: YMW-1
Date Collected: 09/14/17 10:18
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**2.3**		2.0		ug/L			09/21/17 22:43	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0		ug/L			09/21/17 22:43	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0		ug/L			09/21/17 22:43	2
1,1,2-Trichloroethane	**2.5**		2.0		ug/L			09/21/17 22:43	2
1,1-Dichloroethane	2.0	U	2.0		ug/L			09/21/17 22:43	2
1,1-Dichloroethene	**4.6**		2.0		ug/L			09/21/17 22:43	2
1,2,4-Trichlorobenzene	10	U	10		ug/L			09/21/17 22:43	2
1,2-Dibromo-3-Chloropropane	10	U	10		ug/L			09/21/17 22:43	2
1,2-Dibromoethane	2.0	U	2.0		ug/L			09/21/17 22:43	2
1,2-Dichlorobenzene	**22**		2.0		ug/L			09/21/17 22:43	2
1,2-Dichloroethane	2.0	U	2.0		ug/L			09/21/17 22:43	2
1,2-Dichloropropane	2.0	U	2.0		ug/L			09/21/17 22:43	2
1,3-Dichlorobenzene	**6.5**		2.0		ug/L			09/21/17 22:43	2
1,4-Dichlorobenzene	**5.2**		2.0		ug/L			09/21/17 22:43	2
2-Butanone	20	U	20		ug/L			09/21/17 22:43	2
2-Hexanone	20	U	20		ug/L			09/21/17 22:43	2
4-Methyl-2-pentanone	20	U	20		ug/L			09/21/17 22:43	2
Acetone	20	U	20		ug/L			09/21/17 22:43	2
Benzene	2.0	U	2.0		ug/L			09/21/17 22:43	2
Bromodichloromethane	2.0	U	2.0		ug/L			09/21/17 22:43	2
Bromoform	2.0	U	2.0		ug/L			09/21/17 22:43	2
Bromomethane	10	U	10		ug/L			09/21/17 22:43	2
Carbon disulfide	4.0	U	4.0		ug/L			09/21/17 22:43	2
Carbon tetrachloride	2.0	U	2.0		ug/L			09/21/17 22:43	2
Chlorobenzene	2.0	U	2.0		ug/L			09/21/17 22:43	2
Chloroethane	10	U	10		ug/L			09/21/17 22:43	2
Chloroform	2.0	U	2.0		ug/L			09/21/17 22:43	2
Chloromethane	2.0	U	2.0		ug/L			09/21/17 22:43	2
cis-1,2-Dichloroethene	**54**		2.0		ug/L			09/21/17 22:43	2
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			09/21/17 22:43	2
Cyclohexane	2.0	U	2.0		ug/L			09/21/17 22:43	2
Dibromochloromethane	2.0	U	2.0		ug/L			09/21/17 22:43	2
Dichlorodifluoromethane	2.0	U	2.0		ug/L			09/21/17 22:43	2
Ethylbenzene	2.0	U	2.0		ug/L			09/21/17 22:43	2
Isopropylbenzene	2.0	U	2.0		ug/L			09/21/17 22:43	2
Methyl acetate	10	U	10		ug/L			09/21/17 22:43	2
Methyl tert-butyl ether	20	U	20		ug/L			09/21/17 22:43	2
Methylcyclohexane	2.0	U	2.0		ug/L			09/21/17 22:43	2
Methylene Chloride	10	U	10		ug/L			09/21/17 22:43	2
Naphthalene	10	U	10		ug/L			09/21/17 22:43	2
Styrene	2.0	U	2.0		ug/L			09/21/17 22:43	2
Tetrachloroethene	**63**	*	2.0		ug/L			09/21/17 22:43	2
Toluene	2.0	U	2.0		ug/L			09/21/17 22:43	2
trans-1,2-Dichloroethene	2.0	U	2.0		ug/L			09/21/17 22:43	2
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			09/21/17 22:43	2
Trichloroethene	**36**		2.0		ug/L			09/21/17 22:43	2
Trichlorofluoromethane	2.0	U	2.0		ug/L			09/21/17 22:43	2
Vinyl chloride	2.0	U	2.0		ug/L			09/21/17 22:43	2
Xylenes, Total	2.0	U	2.0		ug/L			09/21/17 22:43	2

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: YMW-1
Date Collected: 09/14/17 10:18
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		09/21/17 22:43	2
4-Bromofluorobenzene (Surr)	103		80 - 120		09/21/17 22:43	2
Dibromofluoromethane (Surr)	96		80 - 122		09/21/17 22:43	2
Toluene-d8 (Surr)	103		80 - 120		09/21/17 22:43	2

Client Sample ID: YMW-4
Date Collected: 09/14/17 10:45
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/22/17 16:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/22/17 16:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/22/17 16:25	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/22/17 16:25	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/22/17 16:25	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 16:25	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/22/17 16:25	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/22/17 16:25	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/22/17 16:25	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 16:25	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/22/17 16:25	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/22/17 16:25	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 16:25	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 16:25	1
2-Butanone	10	U	10		ug/L			09/22/17 16:25	1
2-Hexanone	10	U	10		ug/L			09/22/17 16:25	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/22/17 16:25	1
Acetone	10	U	10		ug/L			09/22/17 16:25	1
Benzene	1.0	U	1.0		ug/L			09/22/17 16:25	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/22/17 16:25	1
Bromoform	1.0	U	1.0		ug/L			09/22/17 16:25	1
Bromomethane	5.0	U	5.0		ug/L			09/22/17 16:25	1
Carbon disulfide	2.0	U	2.0		ug/L			09/22/17 16:25	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/22/17 16:25	1
Chlorobenzene	1.0	U	1.0		ug/L			09/22/17 16:25	1
Chloroethane	5.0	U	5.0		ug/L			09/22/17 16:25	1
Chloroform	1.0	U	1.0		ug/L			09/22/17 16:25	1
Chloromethane	1.0	U	1.0		ug/L			09/22/17 16:25	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 16:25	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/22/17 16:25	1
Cyclohexane	1.0	U	1.0		ug/L			09/22/17 16:25	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/22/17 16:25	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/22/17 16:25	1
Ethylbenzene	1.0	U	1.0		ug/L			09/22/17 16:25	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/22/17 16:25	1
Methyl acetate	5.0	U	5.0		ug/L			09/22/17 16:25	1
Methyl tert-butyl ether	10	U	10		ug/L			09/22/17 16:25	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/22/17 16:25	1
Methylene Chloride	5.0	U	5.0		ug/L			09/22/17 16:25	1
Naphthalene	5.0	U	5.0		ug/L			09/22/17 16:25	1
Styrene	1.0	U	1.0		ug/L			09/22/17 16:25	1
Tetrachloroethene	**1.1**		1.0		ug/L			09/22/17 16:25	1
Toluene	1.0	U	1.0		ug/L			09/22/17 16:25	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 16:25	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/22/17 16:25	1
Trichloroethene	1.0	U	1.0		ug/L			09/22/17 16:25	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/22/17 16:25	1
Vinyl chloride	1.0	U	1.0		ug/L			09/22/17 16:25	1
Xylenes, Total	1.0	U	1.0		ug/L			09/22/17 16:25	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: YMW-4
Date Collected: 09/14/17 10:45
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		09/22/17 16:25	1
4-Bromofluorobenzene (Surr)	98		80 - 120		09/22/17 16:25	1
Dibromofluoromethane (Surr)	98		80 - 122		09/22/17 16:25	1
Toluene-d8 (Surr)	102		80 - 120		09/22/17 16:25	1

Client Sample ID: YMW-5

Date Collected: 09/14/17 13:31
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**29**		20		ug/L			09/21/17 23:27	20
1,1,2,2-Tetrachloroethane	20	U	20		ug/L			09/21/17 23:27	20
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20		ug/L			09/21/17 23:27	20
1,1,2-Trichloroethane	20	U	20		ug/L			09/21/17 23:27	20
1,1-Dichloroethane	**140**		20		ug/L			09/21/17 23:27	20
1,1-Dichloroethene	**590**		20		ug/L			09/21/17 23:27	20
1,2,4-Trichlorobenzene	100	U	100		ug/L			09/21/17 23:27	20
1,2-Dibromo-3-Chloropropane	100	U	100		ug/L			09/21/17 23:27	20
1,2-Dibromoethane	20	U	20		ug/L			09/21/17 23:27	20
1,2-Dichlorobenzene	**1700**		20		ug/L			09/21/17 23:27	20
1,2-Dichloroethane	**210**		20		ug/L			09/21/17 23:27	20
1,2-Dichloropropane	20	U	20		ug/L			09/21/17 23:27	20
1,3-Dichlorobenzene	**350**		20		ug/L			09/21/17 23:27	20
1,4-Dichlorobenzene	**390**		20		ug/L			09/21/17 23:27	20
2-Butanone	200	U	200		ug/L			09/21/17 23:27	20
2-Hexanone	200	U	200		ug/L			09/21/17 23:27	20
4-Methyl-2-pentanone	200	U	200		ug/L			09/21/17 23:27	20
Acetone	200	U	200		ug/L			09/21/17 23:27	20
Benzene	**33**		20		ug/L			09/21/17 23:27	20
Bromodichloromethane	20	U	20		ug/L			09/21/17 23:27	20
Bromoform	20	U	20		ug/L			09/21/17 23:27	20
Bromomethane	100	U	100		ug/L			09/21/17 23:27	20
Carbon disulfide	40	U	40		ug/L			09/21/17 23:27	20
Carbon tetrachloride	20	U	20		ug/L			09/21/17 23:27	20
Chlorobenzene	**76**		20		ug/L			09/21/17 23:27	20
Chloroethane	100	U	100		ug/L			09/21/17 23:27	20
Chloroform	20	U	20		ug/L			09/21/17 23:27	20
Chloromethane	20	U	20		ug/L			09/21/17 23:27	20
cis-1,3-Dichloropropene	20	U	20		ug/L			09/21/17 23:27	20
Cyclohexane	20	U	20		ug/L			09/21/17 23:27	20
Dibromochloromethane	20	U	20		ug/L			09/21/17 23:27	20
Dichlorodifluoromethane	20	U	20		ug/L			09/21/17 23:27	20
Ethylbenzene	20	U	20		ug/L			09/21/17 23:27	20
Isopropylbenzene	20	U	20		ug/L			09/21/17 23:27	20
Methyl acetate	100	U	100		ug/L			09/21/17 23:27	20
Methyl tert-butyl ether	200	U	200		ug/L			09/21/17 23:27	20
Methylcyclohexane	20	U	20		ug/L			09/21/17 23:27	20
Methylene Chloride	100	U	100		ug/L			09/21/17 23:27	20
Naphthalene	100	U	100		ug/L			09/21/17 23:27	20
Styrene	20	U	20		ug/L			09/21/17 23:27	20
Tetrachloroethene	**1600**	*	20		ug/L			09/21/17 23:27	20
Toluene	20	U	20		ug/L			09/21/17 23:27	20
trans-1,2-Dichloroethene	20	U	20		ug/L			09/21/17 23:27	20
trans-1,3-Dichloropropene	20	U	20		ug/L			09/21/17 23:27	20
Trichloroethene	**1700**		20		ug/L			09/21/17 23:27	20
Trichlorofluoromethane	20	U	20		ug/L			09/21/17 23:27	20
Vinyl chloride	**220**		20		ug/L			09/21/17 23:27	20
Xylenes, Total	**33**		20		ug/L			09/21/17 23:27	20

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: YMW-5
Date Collected: 09/14/17 13:31
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 131*		*09/21/17 23:27*	*20*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/21/17 23:27*	*20*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*09/21/17 23:27*	*20*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/21/17 23:27*	*20*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	4100		50		ug/L			09/26/17 17:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*		*09/26/17 17:26*	*50*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/26/17 17:26*	*50*
Dibromofluoromethane (Surr)	*98*		*80 - 122*		*09/26/17 17:26*	*50*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/26/17 17:26*	*50*

Client Sample ID: YMW-6

Date Collected: 09/15/17 09:45
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.0	U	2.0		ug/L			09/21/17 23:49	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0		ug/L			09/21/17 23:49	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0		ug/L			09/21/17 23:49	2
1,1,2-Trichloroethane	2.0	U	2.0		ug/L			09/21/17 23:49	2
1,1-Dichloroethane	**4.9**		2.0		ug/L			09/21/17 23:49	2
1,1-Dichloroethene	**11**		2.0		ug/L			09/21/17 23:49	2
1,2,4-Trichlorobenzene	10	U	10		ug/L			09/21/17 23:49	2
1,2-Dibromo-3-Chloropropane	10	U	10		ug/L			09/21/17 23:49	2
1,2-Dibromoethane	2.0	U	2.0		ug/L			09/21/17 23:49	2
1,2-Dichlorobenzene	**3.0**		2.0		ug/L			09/21/17 23:49	2
1,2-Dichloroethane	**15**		2.0		ug/L			09/21/17 23:49	2
1,2-Dichloropropane	2.0	U	2.0		ug/L			09/21/17 23:49	2
1,3-Dichlorobenzene	2.0	U	2.0		ug/L			09/21/17 23:49	2
1,4-Dichlorobenzene	2.0	U	2.0		ug/L			09/21/17 23:49	2
2-Butanone	20	U	20		ug/L			09/21/17 23:49	2
2-Hexanone	20	U	20		ug/L			09/21/17 23:49	2
4-Methyl-2-pentanone	20	U	20		ug/L			09/21/17 23:49	2
Acetone	20	U	20		ug/L			09/21/17 23:49	2
Benzene	2.0	U	2.0		ug/L			09/21/17 23:49	2
Bromodichloromethane	2.0	U	2.0		ug/L			09/21/17 23:49	2
Bromoform	2.0	U	2.0		ug/L			09/21/17 23:49	2
Bromomethane	10	U	10		ug/L			09/21/17 23:49	2
Carbon disulfide	4.0	U	4.0		ug/L			09/21/17 23:49	2
Carbon tetrachloride	2.0	U	2.0		ug/L			09/21/17 23:49	2
Chlorobenzene	2.0	U	2.0		ug/L			09/21/17 23:49	2
Chloroethane	10	U	10		ug/L			09/21/17 23:49	2
Chloroform	2.0	U	2.0		ug/L			09/21/17 23:49	2
Chloromethane	2.0	U	2.0		ug/L			09/21/17 23:49	2
cis-1,2-Dichloroethene	**53**		2.0		ug/L			09/21/17 23:49	2
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			09/21/17 23:49	2
Cyclohexane	2.0	U	2.0		ug/L			09/21/17 23:49	2
Dibromochloromethane	2.0	U	2.0		ug/L			09/21/17 23:49	2
Dichlorodifluoromethane	2.0	U	2.0		ug/L			09/21/17 23:49	2
Ethylbenzene	2.0	U	2.0		ug/L			09/21/17 23:49	2
Isopropylbenzene	2.0	U	2.0		ug/L			09/21/17 23:49	2
Methyl acetate	10	U	10		ug/L			09/21/17 23:49	2
Methyl tert-butyl ether	20	U	20		ug/L			09/21/17 23:49	2
Methylcyclohexane	2.0	U	2.0		ug/L			09/21/17 23:49	2
Methylene Chloride	10	U	10		ug/L			09/21/17 23:49	2
Naphthalene	10	U	10		ug/L			09/21/17 23:49	2
Styrene	2.0	U	2.0		ug/L			09/21/17 23:49	2
Tetrachloroethene	**48**	*	2.0		ug/L			09/21/17 23:49	2
Toluene	2.0	U	2.0		ug/L			09/21/17 23:49	2
trans-1,2-Dichloroethene	2.0	U	2.0		ug/L			09/21/17 23:49	2
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			09/21/17 23:49	2
Trichloroethene	**180**		2.0		ug/L			09/21/17 23:49	2
Trichlorofluoromethane	2.0	U	2.0		ug/L			09/21/17 23:49	2
Vinyl chloride	2.0	U	2.0		ug/L			09/21/17 23:49	2
Xylenes, Total	2.0	U	2.0		ug/L			09/21/17 23:49	2

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: YMW-6
Date Collected: 09/15/17 09:45
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*94*		*73 - 131*		*09/21/17 23:49*	*2*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/21/17 23:49*	*2*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*09/21/17 23:49*	*2*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/21/17 23:49*	*2*

Client Sample ID: YMW-7

Date Collected: 09/15/17 12:25
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0		ug/L			09/22/17 00:11	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/L			09/22/17 00:11	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0		ug/L			09/22/17 00:11	5
1,1,2-Trichloroethane	5.0	U	5.0		ug/L			09/22/17 00:11	5
1,1-Dichloroethane	**9.8**		5.0		ug/L			09/22/17 00:11	5
1,1-Dichloroethene	**75**		5.0		ug/L			09/22/17 00:11	5
1,2,4-Trichlorobenzene	25	U	25		ug/L			09/22/17 00:11	5
1,2-Dibromo-3-Chloropropane	25	U	25		ug/L			09/22/17 00:11	5
1,2-Dibromoethane	5.0	U	5.0		ug/L			09/22/17 00:11	5
1,2-Dichlorobenzene	5.0	U	5.0		ug/L			09/22/17 00:11	5
1,2-Dichloroethane	**82**		5.0		ug/L			09/22/17 00:11	5
1,2-Dichloropropane	5.0	U	5.0		ug/L			09/22/17 00:11	5
1,3-Dichlorobenzene	5.0	U	5.0		ug/L			09/22/17 00:11	5
1,4-Dichlorobenzene	5.0	U	5.0		ug/L			09/22/17 00:11	5
2-Butanone	50	U	50		ug/L			09/22/17 00:11	5
2-Hexanone	50	U	50		ug/L			09/22/17 00:11	5
4-Methyl-2-pentanone	50	U	50		ug/L			09/22/17 00:11	5
Acetone	50	U	50		ug/L			09/22/17 00:11	5
Benzene	5.0	U	5.0		ug/L			09/22/17 00:11	5
Bromodichloromethane	5.0	U	5.0		ug/L			09/22/17 00:11	5
Bromoform	5.0	U	5.0		ug/L			09/22/17 00:11	5
Bromomethane	25	U	25		ug/L			09/22/17 00:11	5
Carbon disulfide	10	U	10		ug/L			09/22/17 00:11	5
Carbon tetrachloride	5.0	U	5.0		ug/L			09/22/17 00:11	5
Chlorobenzene	5.0	U	5.0		ug/L			09/22/17 00:11	5
Chloroethane	25	U	25		ug/L			09/22/17 00:11	5
Chloroform	5.0	U	5.0		ug/L			09/22/17 00:11	5
Chloromethane	5.0	U	5.0		ug/L			09/22/17 00:11	5
cis-1,2-Dichloroethene	**120**		5.0		ug/L			09/22/17 00:11	5
cis-1,3-Dichloropropene	5.0	U	5.0		ug/L			09/22/17 00:11	5
Cyclohexane	5.0	U	5.0		ug/L			09/22/17 00:11	5
Dibromochloromethane	5.0	U	5.0		ug/L			09/22/17 00:11	5
Dichlorodifluoromethane	5.0	U	5.0		ug/L			09/22/17 00:11	5
Ethylbenzene	5.0	U	5.0		ug/L			09/22/17 00:11	5
Isopropylbenzene	5.0	U	5.0		ug/L			09/22/17 00:11	5
Methyl acetate	25	U	25		ug/L			09/22/17 00:11	5
Methyl tert-butyl ether	50	U	50		ug/L			09/22/17 00:11	5
Methylcyclohexane	5.0	U	5.0		ug/L			09/22/17 00:11	5
Methylene Chloride	25	U	25		ug/L			09/22/17 00:11	5
Naphthalene	25	U	25		ug/L			09/22/17 00:11	5
Styrene	5.0	U	5.0		ug/L			09/22/17 00:11	5
Tetrachloroethene	**170**	*	5.0		ug/L			09/22/17 00:11	5
Toluene	5.0	U	5.0		ug/L			09/22/17 00:11	5
trans-1,2-Dichloroethene	5.0	U	5.0		ug/L			09/22/17 00:11	5
trans-1,3-Dichloropropene	5.0	U	5.0		ug/L			09/22/17 00:11	5
Trichloroethene	**510**		5.0		ug/L			09/22/17 00:11	5
Trichlorofluoromethane	5.0	U	5.0		ug/L			09/22/17 00:11	5
Vinyl chloride	5.0	U	5.0		ug/L			09/22/17 00:11	5
Xylenes, Total	5.0	U	5.0		ug/L			09/22/17 00:11	5

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: YMW-7
Date Collected: 09/15/17 12:25
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-6
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*95*		*73 - 131*		*09/22/17 00:11*	*5*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/22/17 00:11*	*5*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*09/22/17 00:11*	*5*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/22/17 00:11*	*5*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: YMW-9
Date Collected: 09/15/17 10:25
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/22/17 16:48	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/22/17 16:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/22/17 16:48	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/22/17 16:48	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/22/17 16:48	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 16:48	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/22/17 16:48	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/22/17 16:48	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/22/17 16:48	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 16:48	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/22/17 16:48	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/22/17 16:48	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 16:48	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 16:48	1
2-Butanone	10	U	10		ug/L			09/22/17 16:48	1
2-Hexanone	10	U	10		ug/L			09/22/17 16:48	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/22/17 16:48	1
Acetone	10	U	10		ug/L			09/22/17 16:48	1
Benzene	1.0	U	1.0		ug/L			09/22/17 16:48	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/22/17 16:48	1
Bromoform	1.0	U	1.0		ug/L			09/22/17 16:48	1
Bromomethane	5.0	U	5.0		ug/L			09/22/17 16:48	1
Carbon disulfide	2.0	U	2.0		ug/L			09/22/17 16:48	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/22/17 16:48	1
Chlorobenzene	1.0	U	1.0		ug/L			09/22/17 16:48	1
Chloroethane	5.0	U	5.0		ug/L			09/22/17 16:48	1
Chloroform	1.0	U	1.0		ug/L			09/22/17 16:48	1
Chloromethane	1.0	U	1.0		ug/L			09/22/17 16:48	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 16:48	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/22/17 16:48	1
Cyclohexane	1.0	U	1.0		ug/L			09/22/17 16:48	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/22/17 16:48	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/22/17 16:48	1
Ethylbenzene	1.0	U	1.0		ug/L			09/22/17 16:48	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/22/17 16:48	1
Methyl acetate	5.0	U	5.0		ug/L			09/22/17 16:48	1
Methyl tert-butyl ether	10	U	10		ug/L			09/22/17 16:48	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/22/17 16:48	1
Methylene Chloride	5.0	U	5.0		ug/L			09/22/17 16:48	1
Naphthalene	5.0	U	5.0		ug/L			09/22/17 16:48	1
Styrene	1.0	U	1.0		ug/L			09/22/17 16:48	1
Tetrachloroethene	1.0	U	1.0		ug/L			09/22/17 16:48	1
Toluene	1.0	U	1.0		ug/L			09/22/17 16:48	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 16:48	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/22/17 16:48	1
Trichloroethene	1.0	U	1.0		ug/L			09/22/17 16:48	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/22/17 16:48	1
Vinyl chloride	1.0	U	1.0		ug/L			09/22/17 16:48	1
Xylenes, Total	1.0	U	1.0		ug/L			09/22/17 16:48	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: YMW-9
Date Collected: 09/15/17 10:25
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		73 - 131		09/22/17 16:48	1
4-Bromofluorobenzene (Surr)	99		80 - 120		09/22/17 16:48	1
Dibromofluoromethane (Surr)	98		80 - 122		09/22/17 16:48	1
Toluene-d8 (Surr)	102		80 - 120		09/22/17 16:48	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: YMW-10
Date Collected: 09/15/17 11:50
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**13**		10		ug/L			09/22/17 01:38	10
1,1,2,2-Tetrachloroethane	10	U	10		ug/L			09/22/17 01:38	10
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10		ug/L			09/22/17 01:38	10
1,1,2-Trichloroethane	10	U	10		ug/L			09/22/17 01:38	10
1,1-Dichloroethane	**47**		10		ug/L			09/22/17 01:38	10
1,1-Dichloroethene	**110**		10		ug/L			09/22/17 01:38	10
1,2,4-Trichlorobenzene	50	U	50		ug/L			09/22/17 01:38	10
1,2-Dibromo-3-Chloropropane	50	U	50		ug/L			09/22/17 01:38	10
1,2-Dibromoethane	10	U	10		ug/L			09/22/17 01:38	10
1,2-Dichlorobenzene	**290**		10		ug/L			09/22/17 01:38	10
1,2-Dichloroethane	**44**		10		ug/L			09/22/17 01:38	10
1,2-Dichloropropane	10	U	10		ug/L			09/22/17 01:38	10
1,3-Dichlorobenzene	**66**		10		ug/L			09/22/17 01:38	10
1,4-Dichlorobenzene	**72**		10		ug/L			09/22/17 01:38	10
2-Butanone	100	U	100		ug/L			09/22/17 01:38	10
2-Hexanone	100	U	100		ug/L			09/22/17 01:38	10
4-Methyl-2-pentanone	100	U	100		ug/L			09/22/17 01:38	10
Acetone	100	U	100		ug/L			09/22/17 01:38	10
Benzene	10	U	10		ug/L			09/22/17 01:38	10
Bromodichloromethane	10	U	10		ug/L			09/22/17 01:38	10
Bromoform	10	U	10		ug/L			09/22/17 01:38	10
Bromomethane	50	U	50		ug/L			09/22/17 01:38	10
Carbon disulfide	20	U	20		ug/L			09/22/17 01:38	10
Carbon tetrachloride	10	U	10		ug/L			09/22/17 01:38	10
Chlorobenzene	**17**		10		ug/L			09/22/17 01:38	10
Chloroethane	50	U	50		ug/L			09/22/17 01:38	10
Chloroform	10	U	10		ug/L			09/22/17 01:38	10
Chloromethane	10	U	10		ug/L			09/22/17 01:38	10
cis-1,2-Dichloroethene	**870**		10		ug/L			09/22/17 01:38	10
cis-1,3-Dichloropropene	10	U	10		ug/L			09/22/17 01:38	10
Cyclohexane	10	U	10		ug/L			09/22/17 01:38	10
Dibromochloromethane	10	U	10		ug/L			09/22/17 01:38	10
Dichlorodifluoromethane	10	U	10		ug/L			09/22/17 01:38	10
Ethylbenzene	10	U	10		ug/L			09/22/17 01:38	10
Isopropylbenzene	10	U	10		ug/L			09/22/17 01:38	10
Methyl acetate	50	U	50		ug/L			09/22/17 01:38	10
Methyl tert-butyl ether	100	U	100		ug/L			09/22/17 01:38	10
Methylcyclohexane	10	U	10		ug/L			09/22/17 01:38	10
Methylene Chloride	50	U	50		ug/L			09/22/17 01:38	10
Naphthalene	50	U	50		ug/L			09/22/17 01:38	10
Styrene	10	U	10		ug/L			09/22/17 01:38	10
Tetrachloroethene	**580**	*	10		ug/L			09/22/17 01:38	10
Toluene	10	U	10		ug/L			09/22/17 01:38	10
trans-1,2-Dichloroethene	10	U	10		ug/L			09/22/17 01:38	10
trans-1,3-Dichloropropene	10	U	10		ug/L			09/22/17 01:38	10
Trichloroethene	**570**		10		ug/L			09/22/17 01:38	10
Trichlorofluoromethane	10	U	10		ug/L			09/22/17 01:38	10
Vinyl chloride	**150**		10		ug/L			09/22/17 01:38	10
Xylenes, Total	10	U	10		ug/L			09/22/17 01:38	10

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: YMW-10
Date Collected: 09/15/17 11:50
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-8
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		09/22/17 01:38	10
4-Bromofluorobenzene (Surr)	101		80 - 120		09/22/17 01:38	10
Dibromofluoromethane (Surr)	96		80 - 122		09/22/17 01:38	10
Toluene-d8 (Surr)	103		80 - 120		09/22/17 01:38	10

Client Sample ID: YMW-11
Date Collected: 09/15/17 10:55
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/22/17 17:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/22/17 17:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/22/17 17:10	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/22/17 17:10	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/22/17 17:10	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 17:10	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/22/17 17:10	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/22/17 17:10	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/22/17 17:10	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 17:10	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/22/17 17:10	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/22/17 17:10	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 17:10	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 17:10	1
2-Butanone	10	U	10		ug/L			09/22/17 17:10	1
2-Hexanone	10	U	10		ug/L			09/22/17 17:10	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/22/17 17:10	1
Acetone	10	U	10		ug/L			09/22/17 17:10	1
Benzene	1.0	U	1.0		ug/L			09/22/17 17:10	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/22/17 17:10	1
Bromoform	1.0	U	1.0		ug/L			09/22/17 17:10	1
Bromomethane	5.0	U	5.0		ug/L			09/22/17 17:10	1
Carbon disulfide	2.0	U	2.0		ug/L			09/22/17 17:10	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/22/17 17:10	1
Chlorobenzene	1.0	U	1.0		ug/L			09/22/17 17:10	1
Chloroethane	5.0	U	5.0		ug/L			09/22/17 17:10	1
Chloroform	**1.3**		1.0		ug/L			09/22/17 17:10	1
Chloromethane	1.0	U	1.0		ug/L			09/22/17 17:10	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 17:10	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/22/17 17:10	1
Cyclohexane	1.0	U	1.0		ug/L			09/22/17 17:10	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/22/17 17:10	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/22/17 17:10	1
Ethylbenzene	1.0	U	1.0		ug/L			09/22/17 17:10	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/22/17 17:10	1
Methyl acetate	5.0	U	5.0		ug/L			09/22/17 17:10	1
Methyl tert-butyl ether	10	U	10		ug/L			09/22/17 17:10	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/22/17 17:10	1
Methylene Chloride	5.0	U	5.0		ug/L			09/22/17 17:10	1
Naphthalene	5.0	U	5.0		ug/L			09/22/17 17:10	1
Styrene	1.0	U	1.0		ug/L			09/22/17 17:10	1
Tetrachloroethene	1.0	U	1.0		ug/L			09/22/17 17:10	1
Toluene	1.0	U	1.0		ug/L			09/22/17 17:10	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 17:10	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/22/17 17:10	1
Trichloroethene	1.0	U	1.0		ug/L			09/22/17 17:10	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/22/17 17:10	1
Vinyl chloride	1.0	U	1.0		ug/L			09/22/17 17:10	1
Xylenes, Total	1.0	U	1.0		ug/L			09/22/17 17:10	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: YMW-11
Date Collected: 09/15/17 10:55
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-9
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		73 - 131		09/22/17 17:10	1
4-Bromofluorobenzene (Surr)	98		80 - 120		09/22/17 17:10	1
Dibromofluoromethane (Surr)	97		80 - 122		09/22/17 17:10	1
Toluene-d8 (Surr)	101		80 - 120		09/22/17 17:10	1

Client Sample ID: YMW-13

Date Collected: 09/14/17 16:21
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**11**		10		ug/L			09/22/17 00:54	10
1,1,2,2-Tetrachloroethane	10	U	10		ug/L			09/22/17 00:54	10
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10		ug/L			09/22/17 00:54	10
1,1,2-Trichloroethane	10	U	10		ug/L			09/22/17 00:54	10
1,1-Dichloroethane	10	U	10		ug/L			09/22/17 00:54	10
1,1-Dichloroethene	**330**		10		ug/L			09/22/17 00:54	10
1,2,4-Trichlorobenzene	50	U	50		ug/L			09/22/17 00:54	10
1,2-Dibromo-3-Chloropropane	50	U	50		ug/L			09/22/17 00:54	10
1,2-Dibromoethane	10	U	10		ug/L			09/22/17 00:54	10
1,2-Dichlorobenzene	10	U	10		ug/L			09/22/17 00:54	10
1,2-Dichloroethane	**180**		10		ug/L			09/22/17 00:54	10
1,2-Dichloropropane	10	U	10		ug/L			09/22/17 00:54	10
1,3-Dichlorobenzene	10	U	10		ug/L			09/22/17 00:54	10
1,4-Dichlorobenzene	10	U	10		ug/L			09/22/17 00:54	10
2-Butanone	100	U	100		ug/L			09/22/17 00:54	10
2-Hexanone	100	U	100		ug/L			09/22/17 00:54	10
4-Methyl-2-pentanone	100	U	100		ug/L			09/22/17 00:54	10
Acetone	100	U	100		ug/L			09/22/17 00:54	10
Benzene	10	U	10		ug/L			09/22/17 00:54	10
Bromodichloromethane	10	U	10		ug/L			09/22/17 00:54	10
Bromoform	10	U	10		ug/L			09/22/17 00:54	10
Bromomethane	50	U	50		ug/L			09/22/17 00:54	10
Carbon disulfide	20	U	20		ug/L			09/22/17 00:54	10
Carbon tetrachloride	10	U	10		ug/L			09/22/17 00:54	10
Chlorobenzene	10	U	10		ug/L			09/22/17 00:54	10
Chloroethane	50	U	50		ug/L			09/22/17 00:54	10
Chloroform	10	U	10		ug/L			09/22/17 00:54	10
Chloromethane	10	U	10		ug/L			09/22/17 00:54	10
cis-1,2-Dichloroethene	**490**		10		ug/L			09/22/17 00:54	10
cis-1,3-Dichloropropene	10	U	10		ug/L			09/22/17 00:54	10
Cyclohexane	10	U	10		ug/L			09/22/17 00:54	10
Dibromochloromethane	10	U	10		ug/L			09/22/17 00:54	10
Dichlorodifluoromethane	10	U	10		ug/L			09/22/17 00:54	10
Ethylbenzene	10	U	10		ug/L			09/22/17 00:54	10
Isopropylbenzene	10	U	10		ug/L			09/22/17 00:54	10
Methyl acetate	50	U	50		ug/L			09/22/17 00:54	10
Methyl tert-butyl ether	100	U	100		ug/L			09/22/17 00:54	10
Methylcyclohexane	10	U	10		ug/L			09/22/17 00:54	10
Methylene Chloride	50	U	50		ug/L			09/22/17 00:54	10
Naphthalene	50	U	50		ug/L			09/22/17 00:54	10
Styrene	10	U	10		ug/L			09/22/17 00:54	10
Tetrachloroethene	**240**	*	10		ug/L			09/22/17 00:54	10
Toluene	10	U	10		ug/L			09/22/17 00:54	10
trans-1,2-Dichloroethene	10	U	10		ug/L			09/22/17 00:54	10
trans-1,3-Dichloropropene	10	U	10		ug/L			09/22/17 00:54	10
Trichloroethene	**560**		10		ug/L			09/22/17 00:54	10
Trichlorofluoromethane	10	U	10		ug/L			09/22/17 00:54	10
Vinyl chloride	10	U	10		ug/L			09/22/17 00:54	10
Xylenes, Total	10	U	10		ug/L			09/22/17 00:54	10

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: YMW-13
Date Collected: 09/14/17 16:21
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-10
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*92*		*73 - 131*		*09/22/17 00:54*	*10*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*09/22/17 00:54*	*10*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*09/22/17 00:54*	*10*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/22/17 00:54*	*10*

Client Sample ID: YMW-16

Date Collected: 09/15/17 13:08
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-11

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**6.5**		5.0		ug/L			09/22/17 01:59	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/L			09/22/17 01:59	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0		ug/L			09/22/17 01:59	5
1,1,2-Trichloroethane	5.0	U	5.0		ug/L			09/22/17 01:59	5
1,1-Dichloroethane	**24**		5.0		ug/L			09/22/17 01:59	5
1,1-Dichloroethene	**140**		5.0		ug/L			09/22/17 01:59	5
1,2,4-Trichlorobenzene	25	U	25		ug/L			09/22/17 01:59	5
1,2-Dibromo-3-Chloropropane	25	U	25		ug/L			09/22/17 01:59	5
1,2-Dibromoethane	5.0	U	5.0		ug/L			09/22/17 01:59	5
1,2-Dichlorobenzene	5.0	U	5.0		ug/L			09/22/17 01:59	5
1,2-Dichloroethane	**32**		5.0		ug/L			09/22/17 01:59	5
1,2-Dichloropropane	5.0	U	5.0		ug/L			09/22/17 01:59	5
1,3-Dichlorobenzene	5.0	U	5.0		ug/L			09/22/17 01:59	5
1,4-Dichlorobenzene	5.0	U	5.0		ug/L			09/22/17 01:59	5
2-Butanone	50	U	50		ug/L			09/22/17 01:59	5
2-Hexanone	50	U	50		ug/L			09/22/17 01:59	5
4-Methyl-2-pentanone	50	U	50		ug/L			09/22/17 01:59	5
Acetone	50	U	50		ug/L			09/22/17 01:59	5
Benzene	5.0	U	5.0		ug/L			09/22/17 01:59	5
Bromodichloromethane	5.0	U	5.0		ug/L			09/22/17 01:59	5
Bromoform	5.0	U	5.0		ug/L			09/22/17 01:59	5
Bromomethane	25	U	25		ug/L			09/22/17 01:59	5
Carbon disulfide	10	U	10		ug/L			09/22/17 01:59	5
Carbon tetrachloride	5.0	U	5.0		ug/L			09/22/17 01:59	5
Chlorobenzene	5.0	U	5.0		ug/L			09/22/17 01:59	5
Chloroethane	25	U	25		ug/L			09/22/17 01:59	5
Chloroform	5.0	U	5.0		ug/L			09/22/17 01:59	5
Chloromethane	5.0	U	5.0		ug/L			09/22/17 01:59	5
cis-1,2-Dichloroethene	**700**		5.0		ug/L			09/22/17 01:59	5
cis-1,3-Dichloropropene	5.0	U	5.0		ug/L			09/22/17 01:59	5
Cyclohexane	5.0	U	5.0		ug/L			09/22/17 01:59	5
Dibromochloromethane	5.0	U	5.0		ug/L			09/22/17 01:59	5
Dichlorodifluoromethane	5.0	U	5.0		ug/L			09/22/17 01:59	5
Ethylbenzene	5.0	U	5.0		ug/L			09/22/17 01:59	5
Isopropylbenzene	5.0	U	5.0		ug/L			09/22/17 01:59	5
Methyl acetate	25	U	25		ug/L			09/22/17 01:59	5
Methyl tert-butyl ether	50	U	50		ug/L			09/22/17 01:59	5
Methylcyclohexane	5.0	U	5.0		ug/L			09/22/17 01:59	5
Methylene Chloride	25	U	25		ug/L			09/22/17 01:59	5
Naphthalene	25	U	25		ug/L			09/22/17 01:59	5
Styrene	5.0	U	5.0		ug/L			09/22/17 01:59	5
Tetrachloroethene	**670**	*	5.0		ug/L			09/22/17 01:59	5
Toluene	5.0	U	5.0		ug/L			09/22/17 01:59	5
trans-1,2-Dichloroethene	5.0	U	5.0		ug/L			09/22/17 01:59	5
trans-1,3-Dichloropropene	5.0	U	5.0		ug/L			09/22/17 01:59	5
Trichloroethene	**480**		5.0		ug/L			09/22/17 01:59	5
Trichlorofluoromethane	5.0	U	5.0		ug/L			09/22/17 01:59	5
Vinyl chloride	5.0	U	5.0		ug/L			09/22/17 01:59	5
Xylenes, Total	5.0	U	5.0		ug/L			09/22/17 01:59	5

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: YMW-16
Date Collected: 09/15/17 13:08
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-11
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		09/22/17 01:59	5
4-Bromofluorobenzene (Surr)	105		80 - 120		09/22/17 01:59	5
Dibromofluoromethane (Surr)	95		80 - 122		09/22/17 01:59	5
Toluene-d8 (Surr)	101		80 - 120		09/22/17 01:59	5

Client Sample ID: YMW-19

Date Collected: 09/13/17 16:15
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-12

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	50	U	50		ug/L			09/20/17 17:26	50
1,1,2,2-Tetrachloroethane	50	U	50		ug/L			09/20/17 17:26	50
1,1,2-Trichloro-1,2,2-trifluoroethane	50	U	50		ug/L			09/20/17 17:26	50
1,1,2-Trichloroethane	50	U	50		ug/L			09/20/17 17:26	50
1,1-Dichloroethane	50	U	50		ug/L			09/20/17 17:26	50
1,1-Dichloroethene	50	U	50		ug/L			09/20/17 17:26	50
1,2,4-Trichlorobenzene	250	U	250		ug/L			09/20/17 17:26	50
1,2-Dibromo-3-Chloropropane	250	U	250		ug/L			09/20/17 17:26	50
1,2-Dibromoethane	50	U	50		ug/L			09/20/17 17:26	50
1,2-Dichlorobenzene	50	U	50		ug/L			09/20/17 17:26	50
1,2-Dichloroethane	50	U	50		ug/L			09/20/17 17:26	50
1,2-Dichloropropane	50	U	50		ug/L			09/20/17 17:26	50
1,3-Dichlorobenzene	50	U	50		ug/L			09/20/17 17:26	50
1,4-Dichlorobenzene	50	U	50		ug/L			09/20/17 17:26	50
2-Butanone	500	U	500		ug/L			09/20/17 17:26	50
2-Hexanone	500	U	500		ug/L			09/20/17 17:26	50
4-Methyl-2-pentanone	500	U	500		ug/L			09/20/17 17:26	50
Acetone	500	U	500		ug/L			09/20/17 17:26	50
Benzene	50	U	50		ug/L			09/20/17 17:26	50
Bromodichloromethane	50	U	50		ug/L			09/20/17 17:26	50
Bromoform	50	U	50		ug/L			09/20/17 17:26	50
Bromomethane	250	U	250		ug/L			09/20/17 17:26	50
Carbon disulfide	100	U	100		ug/L			09/20/17 17:26	50
Carbon tetrachloride	50	U	50		ug/L			09/20/17 17:26	50
Chlorobenzene	50	U	50		ug/L			09/20/17 17:26	50
Chloroethane	250	U	250		ug/L			09/20/17 17:26	50
Chloroform	50	U	50		ug/L			09/20/17 17:26	50
Chloromethane	50	U	50		ug/L			09/20/17 17:26	50
cis-1,2-Dichloroethene	**80**		50		ug/L			09/20/17 17:26	50
cis-1,3-Dichloropropene	50	U	50		ug/L			09/20/17 17:26	50
Cyclohexane	50	U	50		ug/L			09/20/17 17:26	50
Dibromochloromethane	50	U	50		ug/L			09/20/17 17:26	50
Dichlorodifluoromethane	50	U	50		ug/L			09/20/17 17:26	50
Ethylbenzene	50	U	50		ug/L			09/20/17 17:26	50
Isopropylbenzene	50	U	50		ug/L			09/20/17 17:26	50
Methyl acetate	250	U *	250		ug/L			09/20/17 17:26	50
Methyl tert-butyl ether	500	U	500		ug/L			09/20/17 17:26	50
Methylcyclohexane	50	U	50		ug/L			09/20/17 17:26	50
Methylene Chloride	250	U	250		ug/L			09/20/17 17:26	50
Naphthalene	250	U	250		ug/L			09/20/17 17:26	50
Styrene	50	U	50		ug/L			09/20/17 17:26	50
Tetrachloroethene	**180**		50		ug/L			09/20/17 17:26	50
Toluene	50	U	50		ug/L			09/20/17 17:26	50
trans-1,2-Dichloroethene	50	U	50		ug/L			09/20/17 17:26	50
trans-1,3-Dichloropropene	50	U	50		ug/L			09/20/17 17:26	50
Trichloroethene	**180**		50		ug/L			09/20/17 17:26	50
Trichlorofluoromethane	50	U	50		ug/L			09/20/17 17:26	50
Vinyl chloride	50	U	50		ug/L			09/20/17 17:26	50
Xylenes, Total	50	U	50		ug/L			09/20/17 17:26	50

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: YMW-19
Date Collected: 09/13/17 16:15
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-12
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		09/20/17 17:26	50
4-Bromofluorobenzene (Surr)	103		80 - 120		09/20/17 17:26	50
Dibromofluoromethane (Surr)	95		80 - 122		09/20/17 17:26	50
Toluene-d8 (Surr)	101		80 - 120		09/20/17 17:26	50

Client Sample ID: TRIP BLANK

Date Collected: 09/13/17 00:00
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-13

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/20/17 14:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/20/17 14:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/20/17 14:20	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/20/17 14:20	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/20/17 14:20	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/20/17 14:20	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/20/17 14:20	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/20/17 14:20	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/20/17 14:20	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/20/17 14:20	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/20/17 14:20	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/20/17 14:20	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/20/17 14:20	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/20/17 14:20	1
2-Butanone	10	U	10		ug/L			09/20/17 14:20	1
2-Hexanone	10	U	10		ug/L			09/20/17 14:20	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/20/17 14:20	1
Acetone	10	U	10		ug/L			09/20/17 14:20	1
Benzene	1.0	U	1.0		ug/L			09/20/17 14:20	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/20/17 14:20	1
Bromoform	1.0	U	1.0		ug/L			09/20/17 14:20	1
Bromomethane	5.0	U	5.0		ug/L			09/20/17 14:20	1
Carbon disulfide	2.0	U	2.0		ug/L			09/20/17 14:20	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/20/17 14:20	1
Chlorobenzene	1.0	U	1.0		ug/L			09/20/17 14:20	1
Chloroethane	5.0	U	5.0		ug/L			09/20/17 14:20	1
Chloroform	1.0	U	1.0		ug/L			09/20/17 14:20	1
Chloromethane	1.0	U	1.0		ug/L			09/20/17 14:20	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/20/17 14:20	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/20/17 14:20	1
Cyclohexane	1.0	U	1.0		ug/L			09/20/17 14:20	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/20/17 14:20	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/20/17 14:20	1
Ethylbenzene	1.0	U	1.0		ug/L			09/20/17 14:20	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/20/17 14:20	1
Methyl acetate	5.0	U *	5.0		ug/L			09/20/17 14:20	1
Methyl tert-butyl ether	10	U	10		ug/L			09/20/17 14:20	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/20/17 14:20	1
Methylene Chloride	5.0	U	5.0		ug/L			09/20/17 14:20	1
Naphthalene	5.0	U	5.0		ug/L			09/20/17 14:20	1
Styrene	1.0	U	1.0		ug/L			09/20/17 14:20	1
Tetrachloroethene	1.0	U	1.0		ug/L			09/20/17 14:20	1
Toluene	1.0	U	1.0		ug/L			09/20/17 14:20	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/20/17 14:20	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/20/17 14:20	1
Trichloroethene	1.0	U	1.0		ug/L			09/20/17 14:20	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/20/17 14:20	1
Vinyl chloride	1.0	U	1.0		ug/L			09/20/17 14:20	1
Xylenes, Total	1.0	U	1.0		ug/L			09/20/17 14:20	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: TRIP BLANK
Date Collected: 09/13/17 00:00
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-13
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		73 - 131		09/20/17 14:20	1
4-Bromofluorobenzene (Surr)	99		80 - 120		09/20/17 14:20	1
Dibromofluoromethane (Surr)	95		80 - 122		09/20/17 14:20	1
Toluene-d8 (Surr)	102		80 - 120		09/20/17 14:20	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: EQUIPMENT BLANK — **Lab Sample ID: 680-143139-14**
Date Collected: 09/14/17 18:25 — **Matrix: Water**
Date Received: 09/16/17 08:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/22/17 17:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/22/17 17:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/22/17 17:32	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/22/17 17:32	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/22/17 17:32	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 17:32	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/22/17 17:32	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/22/17 17:32	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/22/17 17:32	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 17:32	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/22/17 17:32	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/22/17 17:32	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 17:32	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 17:32	1
2-Butanone	10	U	10		ug/L			09/22/17 17:32	1
2-Hexanone	10	U	10		ug/L			09/22/17 17:32	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/22/17 17:32	1
Acetone	10	U	10		ug/L			09/22/17 17:32	1
Benzene	1.0	U	1.0		ug/L			09/22/17 17:32	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/22/17 17:32	1
Bromoform	1.0	U	1.0		ug/L			09/22/17 17:32	1
Bromomethane	5.0	U	5.0		ug/L			09/22/17 17:32	1
Carbon disulfide	2.0	U	2.0		ug/L			09/22/17 17:32	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/22/17 17:32	1
Chlorobenzene	1.0	U	1.0		ug/L			09/22/17 17:32	1
Chloroethane	5.0	U	5.0		ug/L			09/22/17 17:32	1
Chloroform	1.0	U	1.0		ug/L			09/22/17 17:32	1
Chloromethane	1.0	U	1.0		ug/L			09/22/17 17:32	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 17:32	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/22/17 17:32	1
Cyclohexane	1.0	U	1.0		ug/L			09/22/17 17:32	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/22/17 17:32	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/22/17 17:32	1
Ethylbenzene	1.0	U	1.0		ug/L			09/22/17 17:32	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/22/17 17:32	1
Methyl acetate	5.0	U	5.0		ug/L			09/22/17 17:32	1
Methyl tert-butyl ether	10	U	10		ug/L			09/22/17 17:32	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/22/17 17:32	1
Methylene Chloride	5.0	U	5.0		ug/L			09/22/17 17:32	1
Naphthalene	5.0	U	5.0		ug/L			09/22/17 17:32	1
Styrene	1.0	U	1.0		ug/L			09/22/17 17:32	1
Tetrachloroethene	1.0	U	1.0		ug/L			09/22/17 17:32	1
Toluene	1.0	U	1.0		ug/L			09/22/17 17:32	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 17:32	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/22/17 17:32	1
Trichloroethene	1.0	U	1.0		ug/L			09/22/17 17:32	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/22/17 17:32	1
Vinyl chloride	1.0	U	1.0		ug/L			09/22/17 17:32	1
Xylenes, Total	1.0	U	1.0		ug/L			09/22/17 17:32	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: EQUIPMENT BLANK
Date Collected: 09/14/17 18:25
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-14
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		73 - 131		09/22/17 17:32	1
4-Bromofluorobenzene (Surr)	98		80 - 120		09/22/17 17:32	1
Dibromofluoromethane (Surr)	98		80 - 122		09/22/17 17:32	1
Toluene-d8 (Surr)	101		80 - 120		09/22/17 17:32	1

Client Sample ID: DUP-1

Date Collected: 09/14/17 00:00
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-15

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**31**		10		ug/L			09/22/17 02:21	10
1,1,2,2-Tetrachloroethane	10	U	10		ug/L			09/22/17 02:21	10
1,1,2-Trichloro-1,2,2-trifluoroethane	**10**		10		ug/L			09/22/17 02:21	10
1,1,2-Trichloroethane	**65**		10		ug/L			09/22/17 02:21	10
1,1-Dichloroethane	**160**		10		ug/L			09/22/17 02:21	10
1,1-Dichloroethene	**650**		10		ug/L			09/22/17 02:21	10
1,2,4-Trichlorobenzene	50	U	50		ug/L			09/22/17 02:21	10
1,2-Dibromo-3-Chloropropane	50	U	50		ug/L			09/22/17 02:21	10
1,2-Dibromoethane	10	U	10		ug/L			09/22/17 02:21	10
1,2-Dichlorobenzene	**1800**		10		ug/L			09/22/17 02:21	10
1,2-Dichloroethane	**230**		10		ug/L			09/22/17 02:21	10
1,2-Dichloropropane	10	U	10		ug/L			09/22/17 02:21	10
1,3-Dichlorobenzene	**370**		10		ug/L			09/22/17 02:21	10
1,4-Dichlorobenzene	**410**		10		ug/L			09/22/17 02:21	10
2-Butanone	100	U	100		ug/L			09/22/17 02:21	10
2-Hexanone	100	U	100		ug/L			09/22/17 02:21	10
4-Methyl-2-pentanone	100	U	100		ug/L			09/22/17 02:21	10
Acetone	100	U	100		ug/L			09/22/17 02:21	10
Benzene	**36**		10		ug/L			09/22/17 02:21	10
Bromodichloromethane	10	U	10		ug/L			09/22/17 02:21	10
Bromoform	10	U	10		ug/L			09/22/17 02:21	10
Bromomethane	50	U	50		ug/L			09/22/17 02:21	10
Carbon disulfide	20	U	20		ug/L			09/22/17 02:21	10
Carbon tetrachloride	10	U	10		ug/L			09/22/17 02:21	10
Chlorobenzene	**84**		10		ug/L			09/22/17 02:21	10
Chloroethane	50	U	50		ug/L			09/22/17 02:21	10
Chloroform	10	U	10		ug/L			09/22/17 02:21	10
Chloromethane	10	U	10		ug/L			09/22/17 02:21	10
cis-1,3-Dichloropropene	10	U	10		ug/L			09/22/17 02:21	10
Cyclohexane	10	U	10		ug/L			09/22/17 02:21	10
Dibromochloromethane	10	U	10		ug/L			09/22/17 02:21	10
Dichlorodifluoromethane	10	U	10		ug/L			09/22/17 02:21	10
Ethylbenzene	10	U	10		ug/L			09/22/17 02:21	10
Isopropylbenzene	**19**		10		ug/L			09/22/17 02:21	10
Methyl acetate	50	U	50		ug/L			09/22/17 02:21	10
Methyl tert-butyl ether	100	U	100		ug/L			09/22/17 02:21	10
Methylcyclohexane	10	U	10		ug/L			09/22/17 02:21	10
Methylene Chloride	50	U	50		ug/L			09/22/17 02:21	10
Naphthalene	50	U	50		ug/L			09/22/17 02:21	10
Styrene	10	U	10		ug/L			09/22/17 02:21	10
Tetrachloroethene	**1800**	*	10		ug/L			09/22/17 02:21	10
Toluene	10	U	10		ug/L			09/22/17 02:21	10
trans-1,2-Dichloroethene	10	U	10		ug/L			09/22/17 02:21	10
trans-1,3-Dichloropropene	10	U	10		ug/L			09/22/17 02:21	10
Trichloroethene	**1800**		10		ug/L			09/22/17 02:21	10
Trichlorofluoromethane	10	U	10		ug/L			09/22/17 02:21	10
Vinyl chloride	**230**		10		ug/L			09/22/17 02:21	10
Xylenes, Total	**37**		10		ug/L			09/22/17 02:21	10

Client Sample ID: DUP-1

Date Collected: 09/14/17 00:00
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-15

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 131*		*09/22/17 02:21*	*10*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/22/17 02:21*	*10*
Dibromofluoromethane (Surr)	*93*		*80 - 122*		*09/22/17 02:21*	*10*
Toluene-d8 (Surr)	*104*		*80 - 120*		*09/22/17 02:21*	*10*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**4000**		100		ug/L			09/26/17 17:01	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*		*09/26/17 17:01*	*100*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/26/17 17:01*	*100*
Dibromofluoromethane (Surr)	*99*		*80 - 122*		*09/26/17 17:01*	*100*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/26/17 17:01*	*100*

Client Sample ID: DUP-2

Date Collected: 09/15/17 00:00
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-16

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**11**		1.0		ug/L			09/22/17 17:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/22/17 17:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**2.2**		1.0		ug/L			09/22/17 17:54	1
1,1,2-Trichloroethane	**6.3**		1.0		ug/L			09/22/17 17:54	1
1,1-Dichloroethane	**39**		1.0		ug/L			09/22/17 17:54	1
1,1-Dichloroethene	**110**		1.0		ug/L			09/22/17 17:54	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/22/17 17:54	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/22/17 17:54	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/22/17 17:54	1
1,2-Dichlorobenzene	**330**		10		ug/L			09/28/17 17:07	10
1,2-Dichloroethane	**37**		1.0		ug/L			09/22/17 17:54	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/22/17 17:54	1
1,3-Dichlorobenzene	**56**		1.0		ug/L			09/22/17 17:54	1
1,4-Dichlorobenzene	**58**		1.0		ug/L			09/22/17 17:54	1
2-Butanone	10	U	10		ug/L			09/22/17 17:54	1
2-Hexanone	10	U	10		ug/L			09/22/17 17:54	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/22/17 17:54	1
Acetone	10	U	10		ug/L			09/22/17 17:54	1
Benzene	**5.9**		1.0		ug/L			09/22/17 17:54	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/22/17 17:54	1
Bromoform	1.0	U	1.0		ug/L			09/22/17 17:54	1
Bromomethane	5.0	U	5.0		ug/L			09/22/17 17:54	1
Carbon disulfide	2.0	U	2.0		ug/L			09/22/17 17:54	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/22/17 17:54	1
Chlorobenzene	**14**		1.0		ug/L			09/22/17 17:54	1
Chloroethane	5.0	U	5.0		ug/L			09/22/17 17:54	1
Chloroform	**1.6**		1.0		ug/L			09/22/17 17:54	1
Chloromethane	1.0	U	1.0		ug/L			09/22/17 17:54	1
cis-1,2-Dichloroethene	**1000**		10		ug/L			09/28/17 17:07	10
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/22/17 17:54	1
Cyclohexane	1.0	U	1.0		ug/L			09/22/17 17:54	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/22/17 17:54	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/22/17 17:54	1
Ethylbenzene	**2.4**		1.0		ug/L			09/22/17 17:54	1
Isopropylbenzene	**2.0**		1.0		ug/L			09/22/17 17:54	1
Methyl acetate	5.0	U	5.0		ug/L			09/22/17 17:54	1
Methyl tert-butyl ether	10	U	10		ug/L			09/22/17 17:54	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/22/17 17:54	1
Methylene Chloride	5.0	U	5.0		ug/L			09/22/17 17:54	1
Naphthalene	**5.4**		5.0		ug/L			09/22/17 17:54	1
Styrene	1.0	U	1.0		ug/L			09/22/17 17:54	1
Tetrachloroethene	**490**		10		ug/L			09/28/17 17:07	10
Toluene	**3.8**		1.0		ug/L			09/22/17 17:54	1
trans-1,2-Dichloroethene	**1.9**		1.0		ug/L			09/22/17 17:54	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/22/17 17:54	1
Trichloroethene	**580**		10		ug/L			09/28/17 17:07	10
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/22/17 17:54	1
Vinyl chloride	**150**		1.0		ug/L			09/22/17 17:54	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: DUP-2
Date Collected: 09/15/17 00:00
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-16
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	6.0		1.0		ug/L			09/22/17 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*73 - 131*		*09/22/17 17:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*73 - 131*		*09/28/17 17:07*	*10*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/22/17 17:54*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/28/17 17:07*	*10*
Dibromofluoromethane (Surr)	*98*		*80 - 122*		*09/22/17 17:54*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 122*		*09/28/17 17:07*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/22/17 17:54*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/28/17 17:07*	*10*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: HMW-1
Date Collected: 09/13/17 15:40
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-17
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/20/17 14:41	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/20/17 14:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/20/17 14:41	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/20/17 14:41	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/20/17 14:41	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/20/17 14:41	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/20/17 14:41	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/20/17 14:41	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/20/17 14:41	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/20/17 14:41	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/20/17 14:41	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/20/17 14:41	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/20/17 14:41	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/20/17 14:41	1
2-Butanone	10	U	10		ug/L			09/20/17 14:41	1
2-Hexanone	10	U	10		ug/L			09/20/17 14:41	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/20/17 14:41	1
Acetone	10	U	10		ug/L			09/20/17 14:41	1
Benzene	1.0	U	1.0		ug/L			09/20/17 14:41	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/20/17 14:41	1
Bromoform	1.0	U	1.0		ug/L			09/20/17 14:41	1
Bromomethane	5.0	U	5.0		ug/L			09/20/17 14:41	1
Carbon disulfide	2.0	U	2.0		ug/L			09/20/17 14:41	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/20/17 14:41	1
Chlorobenzene	1.0	U	1.0		ug/L			09/20/17 14:41	1
Chloroethane	5.0	U	5.0		ug/L			09/20/17 14:41	1
Chloroform	1.0	U	1.0		ug/L			09/20/17 14:41	1
Chloromethane	1.0	U	1.0		ug/L			09/20/17 14:41	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/20/17 14:41	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/20/17 14:41	1
Cyclohexane	1.0	U	1.0		ug/L			09/20/17 14:41	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/20/17 14:41	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/20/17 14:41	1
Ethylbenzene	1.0	U	1.0		ug/L			09/20/17 14:41	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/20/17 14:41	1
Methyl acetate	5.0	U *	5.0		ug/L			09/20/17 14:41	1
Methyl tert-butyl ether	10	U	10		ug/L			09/20/17 14:41	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/20/17 14:41	1
Methylene Chloride	5.0	U	5.0		ug/L			09/20/17 14:41	1
Naphthalene	5.0	U	5.0		ug/L			09/20/17 14:41	1
Styrene	1.0	U	1.0		ug/L			09/20/17 14:41	1
Tetrachloroethene	**6.4**		1.0		ug/L			09/20/17 14:41	1
Toluene	1.0	U	1.0		ug/L			09/20/17 14:41	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/20/17 14:41	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/20/17 14:41	1
Trichloroethene	1.0	U	1.0		ug/L			09/20/17 14:41	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/20/17 14:41	1
Vinyl chloride	1.0	U	1.0		ug/L			09/20/17 14:41	1
Xylenes, Total	1.0	U	1.0		ug/L			09/20/17 14:41	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: HMW-1
Date Collected: 09/13/17 15:40
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-17
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		73 - 131		09/20/17 14:41	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/20/17 14:41	1
Dibromofluoromethane (Surr)	93		80 - 122		09/20/17 14:41	1
Toluene-d8 (Surr)	100		80 - 120		09/20/17 14:41	1

Client Sample ID: SMW-1

Date Collected: 09/14/17 16:10
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-18

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/22/17 18:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/22/17 18:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/22/17 18:16	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/22/17 18:16	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/22/17 18:16	1
1,1-Dichloroethene	**1.0**		1.0		ug/L			09/22/17 18:16	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/22/17 18:16	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/22/17 18:16	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/22/17 18:16	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/27/17 12:52	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/22/17 18:16	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/22/17 18:16	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 18:16	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 18:16	1
2-Butanone	10	U	10		ug/L			09/22/17 18:16	1
2-Hexanone	10	U	10		ug/L			09/22/17 18:16	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/22/17 18:16	1
Acetone	10	U	10		ug/L			09/22/17 18:16	1
Benzene	1.0	U	1.0		ug/L			09/22/17 18:16	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/22/17 18:16	1
Bromoform	1.0	U	1.0		ug/L			09/22/17 18:16	1
Bromomethane	5.0	U	5.0		ug/L			09/22/17 18:16	1
Carbon disulfide	2.0	U	2.0		ug/L			09/22/17 18:16	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/22/17 18:16	1
Chlorobenzene	1.0	U	1.0		ug/L			09/22/17 18:16	1
Chloroethane	5.0	U	5.0		ug/L			09/22/17 18:16	1
Chloroform	1.0	U	1.0		ug/L			09/22/17 18:16	1
Chloromethane	1.0	U	1.0		ug/L			09/22/17 18:16	1
cis-1,2-Dichloroethene	**2.1**		1.0		ug/L			09/27/17 12:52	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/22/17 18:16	1
Cyclohexane	1.0	U	1.0		ug/L			09/22/17 18:16	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/22/17 18:16	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/22/17 18:16	1
Ethylbenzene	1.0	U	1.0		ug/L			09/22/17 18:16	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/22/17 18:16	1
Methyl acetate	5.0	U	5.0		ug/L			09/22/17 18:16	1
Methyl tert-butyl ether	10	U	10		ug/L			09/22/17 18:16	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/22/17 18:16	1
Methylene Chloride	5.0	U	5.0		ug/L			09/22/17 18:16	1
Naphthalene	5.0	U	5.0		ug/L			09/22/17 18:16	1
Styrene	1.0	U	1.0		ug/L			09/22/17 18:16	1
Tetrachloroethene	**2.0**		1.0		ug/L			09/27/17 12:52	1
Toluene	1.0	U	1.0		ug/L			09/22/17 18:16	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 18:16	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/22/17 18:16	1
Trichloroethene	**3.0**		1.0		ug/L			09/27/17 12:52	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/22/17 18:16	1
Vinyl chloride	**1.8**		1.0		ug/L			09/22/17 18:16	1
Xylenes, Total	1.0	U	1.0		ug/L			09/22/17 18:16	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: SMW-1
Date Collected: 09/14/17 16:10
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-18
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		73 - 131		09/22/17 18:16	1
1,2-Dichloroethane-d4 (Surr)	93		73 - 131		09/27/17 12:52	1
4-Bromofluorobenzene (Surr)	99		80 - 120		09/22/17 18:16	1
4-Bromofluorobenzene (Surr)	97		80 - 120		09/27/17 12:52	1
Dibromofluoromethane (Surr)	99		80 - 122		09/22/17 18:16	1
Dibromofluoromethane (Surr)	99		80 - 122		09/27/17 12:52	1
Toluene-d8 (Surr)	101		80 - 120		09/22/17 18:16	1
Toluene-d8 (Surr)	100		80 - 120		09/27/17 12:52	1

Client Sample ID: SMW-3
Date Collected: 09/14/17 17:45
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-19
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	10	U	10		ug/L			09/22/17 03:27	10
1,1,2,2-Tetrachloroethane	10	U	10		ug/L			09/22/17 03:27	10
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10		ug/L			09/22/17 03:27	10
1,1,2-Trichloroethane	**21**		10		ug/L			09/22/17 03:27	10
1,1-Dichloroethane	**96**		10		ug/L			09/22/17 03:27	10
1,1-Dichloroethene	**76**		10		ug/L			09/22/17 03:27	10
1,2,4-Trichlorobenzene	50	U	50		ug/L			09/22/17 03:27	10
1,2-Dibromo-3-Chloropropane	50	U	50		ug/L			09/22/17 03:27	10
1,2-Dibromoethane	10	U	10		ug/L			09/22/17 03:27	10
1,2-Dichlorobenzene	**1200**		10		ug/L			09/22/17 03:27	10
1,2-Dichloroethane	**390**		10		ug/L			09/22/17 03:27	10
1,2-Dichloropropane	10	U	10		ug/L			09/22/17 03:27	10
1,3-Dichlorobenzene	**380**		10		ug/L			09/22/17 03:27	10
1,4-Dichlorobenzene	**250**		10		ug/L			09/22/17 03:27	10
2-Butanone	100	U	100		ug/L			09/22/17 03:27	10
2-Hexanone	100	U	100		ug/L			09/22/17 03:27	10
4-Methyl-2-pentanone	**3200**		100		ug/L			09/22/17 03:27	10
Acetone	**430**		100		ug/L			09/22/17 03:27	10
Benzene	**13**		10		ug/L			09/22/17 03:27	10
Bromodichloromethane	10	U	10		ug/L			09/22/17 03:27	10
Bromoform	10	U	10		ug/L			09/22/17 03:27	10
Bromomethane	50	U	50		ug/L			09/22/17 03:27	10
Carbon disulfide	20	U	20		ug/L			09/22/17 03:27	10
Carbon tetrachloride	10	U	10		ug/L			09/22/17 03:27	10
Chlorobenzene	10	U	10		ug/L			09/22/17 03:27	10
Chloroethane	50	U	50		ug/L			09/22/17 03:27	10
Chloroform	10	U	10		ug/L			09/22/17 03:27	10
Chloromethane	10	U	10		ug/L			09/22/17 03:27	10
cis-1,2-Dichloroethene	**700**		10		ug/L			09/22/17 03:27	10
cis-1,3-Dichloropropene	10	U	10		ug/L			09/22/17 03:27	10
Cyclohexane	10	U	10		ug/L			09/22/17 03:27	10
Dibromochloromethane	10	U	10		ug/L			09/22/17 03:27	10
Dichlorodifluoromethane	10	U	10		ug/L			09/22/17 03:27	10
Ethylbenzene	**46**		10		ug/L			09/22/17 03:27	10
Isopropylbenzene	10	U	10		ug/L			09/22/17 03:27	10
Methyl acetate	50	U	50		ug/L			09/22/17 03:27	10
Methyl tert-butyl ether	100	U	100		ug/L			09/22/17 03:27	10
Methylcyclohexane	10	U	10		ug/L			09/22/17 03:27	10
Methylene Chloride	50	U	50		ug/L			09/22/17 03:27	10
Naphthalene	50	U	50		ug/L			09/22/17 03:27	10
Styrene	10	U	10		ug/L			09/22/17 03:27	10
Tetrachloroethene	**59**	*	10		ug/L			09/22/17 03:27	10
Toluene	**37**		10		ug/L			09/22/17 03:27	10
trans-1,2-Dichloroethene	10	U	10		ug/L			09/22/17 03:27	10
trans-1,3-Dichloropropene	10	U	10		ug/L			09/22/17 03:27	10
Trichloroethene	**45**		10		ug/L			09/22/17 03:27	10
Trichlorofluoromethane	10	U	10		ug/L			09/22/17 03:27	10
Vinyl chloride	**250**		10		ug/L			09/22/17 03:27	10
Xylenes, Total	**1400**		10		ug/L			09/22/17 03:27	10

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: SMW-3
Date Collected: 09/14/17 17:45
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-19
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		09/22/17 03:27	10
4-Bromofluorobenzene (Surr)	96		80 - 120		09/22/17 03:27	10
Dibromofluoromethane (Surr)	96		80 - 122		09/22/17 03:27	10
Toluene-d8 (Surr)	98		80 - 120		09/22/17 03:27	10

Client Sample ID: SMW-4
Date Collected: 09/13/17 17:10
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-20
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	50	U	50		ug/L			09/20/17 17:04	50
1,1,2,2-Tetrachloroethane	50	U	50		ug/L			09/20/17 17:04	50
1,1,2-Trichloro-1,2,2-trifluoroethane	50	U	50		ug/L			09/20/17 17:04	50
1,1,2-Trichloroethane	50	U	50		ug/L			09/20/17 17:04	50
1,1-Dichloroethane	50	U	50		ug/L			09/20/17 17:04	50
1,1-Dichloroethene	50	U	50		ug/L			09/20/17 17:04	50
1,2,4-Trichlorobenzene	250	U	250		ug/L			09/20/17 17:04	50
1,2-Dibromo-3-Chloropropane	250	U	250		ug/L			09/20/17 17:04	50
1,2-Dibromoethane	50	U	50		ug/L			09/20/17 17:04	50
1,2-Dichlorobenzene	50	U	50		ug/L			09/20/17 17:04	50
1,2-Dichloroethane	50	U	50		ug/L			09/20/17 17:04	50
1,2-Dichloropropane	50	U	50		ug/L			09/20/17 17:04	50
1,3-Dichlorobenzene	50	U	50		ug/L			09/20/17 17:04	50
1,4-Dichlorobenzene	50	U	50		ug/L			09/20/17 17:04	50
2-Butanone	500	U	500		ug/L			09/20/17 17:04	50
2-Hexanone	500	U	500		ug/L			09/20/17 17:04	50
4-Methyl-2-pentanone	500	U	500		ug/L			09/20/17 17:04	50
Acetone	500	U	500		ug/L			09/20/17 17:04	50
Benzene	50	U	50		ug/L			09/20/17 17:04	50
Bromodichloromethane	50	U	50		ug/L			09/20/17 17:04	50
Bromoform	50	U	50		ug/L			09/20/17 17:04	50
Bromomethane	250	U	250		ug/L			09/20/17 17:04	50
Carbon disulfide	100	U	100		ug/L			09/20/17 17:04	50
Carbon tetrachloride	50	U	50		ug/L			09/20/17 17:04	50
Chlorobenzene	50	U	50		ug/L			09/20/17 17:04	50
Chloroethane	250	U	250		ug/L			09/20/17 17:04	50
Chloroform	50	U	50		ug/L			09/20/17 17:04	50
Chloromethane	50	U	50		ug/L			09/20/17 17:04	50
cis-1,2-Dichloroethene	50	U	50		ug/L			09/20/17 17:04	50
cis-1,3-Dichloropropene	50	U	50		ug/L			09/20/17 17:04	50
Cyclohexane	50	U	50		ug/L			09/20/17 17:04	50
Dibromochloromethane	50	U	50		ug/L			09/20/17 17:04	50
Dichlorodifluoromethane	50	U	50		ug/L			09/20/17 17:04	50
Ethylbenzene	50	U	50		ug/L			09/20/17 17:04	50
Isopropylbenzene	50	U	50		ug/L			09/20/17 17:04	50
Methyl acetate	250	U *	250		ug/L			09/20/17 17:04	50
Methyl tert-butyl ether	500	U	500		ug/L			09/20/17 17:04	50
Methylcyclohexane	50	U	50		ug/L			09/20/17 17:04	50
Methylene Chloride	250	U	250		ug/L			09/20/17 17:04	50
Naphthalene	250	U	250		ug/L			09/20/17 17:04	50
Styrene	50	U	50		ug/L			09/20/17 17:04	50
Tetrachloroethene	**370**		50		ug/L			09/20/17 17:04	50
Toluene	50	U	50		ug/L			09/20/17 17:04	50
trans-1,2-Dichloroethene	50	U	50		ug/L			09/20/17 17:04	50
trans-1,3-Dichloropropene	50	U	50		ug/L			09/20/17 17:04	50
Trichloroethene	**60**		50		ug/L			09/20/17 17:04	50
Trichlorofluoromethane	50	U	50		ug/L			09/20/17 17:04	50
Vinyl chloride	50	U	50		ug/L			09/20/17 17:04	50
Xylenes, Total	50	U	50		ug/L			09/20/17 17:04	50

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: SMW-4
Date Collected: 09/13/17 17:10
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-20
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		73 - 131		09/20/17 17:04	50
4-Bromofluorobenzene (Surr)	102		80 - 120		09/20/17 17:04	50
Dibromofluoromethane (Surr)	95		80 - 122		09/20/17 17:04	50
Toluene-d8 (Surr)	101		80 - 120		09/20/17 17:04	50

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: SRW-1
Date Collected: 09/14/17 18:24
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-21
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0		ug/L			09/22/17 03:48	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/L			09/22/17 03:48	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0		ug/L			09/22/17 03:48	5
1,1,2-Trichloroethane	5.0	U	5.0		ug/L			09/22/17 03:48	5
1,1-Dichloroethane	**36**		5.0		ug/L			09/22/17 03:48	5
1,1-Dichloroethene	**88**		5.0		ug/L			09/22/17 03:48	5
1,2,4-Trichlorobenzene	25	U	25		ug/L			09/22/17 03:48	5
1,2-Dibromo-3-Chloropropane	25	U	25		ug/L			09/22/17 03:48	5
1,2-Dibromoethane	5.0	U	5.0		ug/L			09/22/17 03:48	5
1,2-Dichlorobenzene	**9.8**		5.0		ug/L			09/22/17 03:48	5
1,2-Dichloroethane	**140**		5.0		ug/L			09/22/17 03:48	5
1,2-Dichloropropane	5.0	U	5.0		ug/L			09/22/17 03:48	5
1,3-Dichlorobenzene	5.0	U	5.0		ug/L			09/22/17 03:48	5
1,4-Dichlorobenzene	5.0	U	5.0		ug/L			09/22/17 03:48	5
2-Butanone	50	U	50		ug/L			09/22/17 03:48	5
2-Hexanone	50	U	50		ug/L			09/22/17 03:48	5
4-Methyl-2-pentanone	50	U	50		ug/L			09/22/17 03:48	5
Acetone	50	U	50		ug/L			09/22/17 03:48	5
Benzene	5.0	U	5.0		ug/L			09/22/17 03:48	5
Bromodichloromethane	5.0	U	5.0		ug/L			09/22/17 03:48	5
Bromoform	5.0	U	5.0		ug/L			09/22/17 03:48	5
Bromomethane	25	U	25		ug/L			09/22/17 03:48	5
Carbon disulfide	10	U	10		ug/L			09/22/17 03:48	5
Carbon tetrachloride	5.0	U	5.0		ug/L			09/22/17 03:48	5
Chlorobenzene	5.0	U	5.0		ug/L			09/22/17 03:48	5
Chloroethane	25	U	25		ug/L			09/22/17 03:48	5
Chloroform	5.0	U	5.0		ug/L			09/22/17 03:48	5
Chloromethane	5.0	U	5.0		ug/L			09/22/17 03:48	5
cis-1,2-Dichloroethene	**240**		5.0		ug/L			09/22/17 03:48	5
cis-1,3-Dichloropropene	5.0	U	5.0		ug/L			09/22/17 03:48	5
Cyclohexane	5.0	U	5.0		ug/L			09/22/17 03:48	5
Dibromochloromethane	5.0	U	5.0		ug/L			09/22/17 03:48	5
Dichlorodifluoromethane	5.0	U	5.0		ug/L			09/22/17 03:48	5
Ethylbenzene	5.0	U	5.0		ug/L			09/22/17 03:48	5
Isopropylbenzene	5.0	U	5.0		ug/L			09/22/17 03:48	5
Methyl acetate	25	U	25		ug/L			09/22/17 03:48	5
Methyl tert-butyl ether	50	U	50		ug/L			09/22/17 03:48	5
Methylcyclohexane	5.0	U	5.0		ug/L			09/22/17 03:48	5
Methylene Chloride	25	U	25		ug/L			09/22/17 03:48	5
Naphthalene	25	U	25		ug/L			09/22/17 03:48	5
Styrene	5.0	U	5.0		ug/L			09/22/17 03:48	5
Tetrachloroethene	**590**	*	5.0		ug/L			09/22/17 03:48	5
Toluene	5.0	U	5.0		ug/L			09/22/17 03:48	5
trans-1,2-Dichloroethene	5.0	U	5.0		ug/L			09/22/17 03:48	5
trans-1,3-Dichloropropene	5.0	U	5.0		ug/L			09/22/17 03:48	5
Trichloroethene	**400**		5.0		ug/L			09/22/17 03:48	5
Trichlorofluoromethane	5.0	U	5.0		ug/L			09/22/17 03:48	5
Vinyl chloride	5.0	U	5.0		ug/L			09/22/17 03:48	5
Xylenes, Total	5.0	U	5.0		ug/L			09/22/17 03:48	5

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: SRW-1
Date Collected: 09/14/17 18:24
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-21
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		09/22/17 03:48	5
4-Bromofluorobenzene (Surr)	104		80 - 120		09/22/17 03:48	5
Dibromofluoromethane (Surr)	96		80 - 122		09/22/17 03:48	5
Toluene-d8 (Surr)	101		80 - 120		09/22/17 03:48	5

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: TRIP BLANK
Date Collected: 09/15/17 00:00
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-22
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/22/17 18:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/22/17 18:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/22/17 18:38	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/22/17 18:38	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/22/17 18:38	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 18:38	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/22/17 18:38	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/22/17 18:38	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/22/17 18:38	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 18:38	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/22/17 18:38	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/22/17 18:38	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 18:38	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 18:38	1
2-Butanone	10	U	10		ug/L			09/22/17 18:38	1
2-Hexanone	10	U	10		ug/L			09/22/17 18:38	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/22/17 18:38	1
Acetone	10	U	10		ug/L			09/22/17 18:38	1
Benzene	1.0	U	1.0		ug/L			09/22/17 18:38	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/22/17 18:38	1
Bromoform	1.0	U	1.0		ug/L			09/22/17 18:38	1
Bromomethane	5.0	U	5.0		ug/L			09/22/17 18:38	1
Carbon disulfide	2.0	U	2.0		ug/L			09/22/17 18:38	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/22/17 18:38	1
Chlorobenzene	1.0	U	1.0		ug/L			09/22/17 18:38	1
Chloroethane	5.0	U	5.0		ug/L			09/22/17 18:38	1
Chloroform	1.0	U	1.0		ug/L			09/22/17 18:38	1
Chloromethane	1.0	U	1.0		ug/L			09/22/17 18:38	1
cis-1,2-Dichloroethene	**1.3**		1.0		ug/L			09/22/17 18:38	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/22/17 18:38	1
Cyclohexane	1.0	U	1.0		ug/L			09/22/17 18:38	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/22/17 18:38	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/22/17 18:38	1
Ethylbenzene	1.0	U	1.0		ug/L			09/22/17 18:38	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/22/17 18:38	1
Methyl acetate	5.0	U	5.0		ug/L			09/22/17 18:38	1
Methyl tert-butyl ether	10	U	10		ug/L			09/22/17 18:38	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/22/17 18:38	1
Methylene Chloride	5.0	U	5.0		ug/L			09/22/17 18:38	1
Naphthalene	5.0	U	5.0		ug/L			09/22/17 18:38	1
Styrene	1.0	U	1.0		ug/L			09/22/17 18:38	1
Tetrachloroethene	1.0	U	1.0		ug/L			09/22/17 18:38	1
Toluene	1.0	U	1.0		ug/L			09/22/17 18:38	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 18:38	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/22/17 18:38	1
Trichloroethene	**1.2**		1.0		ug/L			09/22/17 18:38	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/22/17 18:38	1
Vinyl chloride	1.0	U	1.0		ug/L			09/22/17 18:38	1
Xylenes, Total	1.0	U	1.0		ug/L			09/22/17 18:38	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: TRIP BLANK
Date Collected: 09/15/17 00:00
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-22
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		09/22/17 18:38	1
4-Bromofluorobenzene (Surr)	98		80 - 120		09/22/17 18:38	1
Dibromofluoromethane (Surr)	98		80 - 122		09/22/17 18:38	1
Toluene-d8 (Surr)	101		80 - 120		09/22/17 18:38	1

Surrogate Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(73-131)	(80-120)	(80-122)	(80-120)
680-143139-1	WMW-1	93	98	97	101
680-143139-2	YMW-1	95	103	96	103
680-143139-3	YMW-4	92	98	98	102
680-143139-4	YMW-5	93	100	95	103
680-143139-4 - DL	YMW-5	99	97	98	100
680-143139-5	YMW-6	94	105	95	99
680-143139-6	YMW-7	95	105	96	102
680-143139-7	YMW-9	91	99	98	102
680-143139-8	YMW-10	95	101	96	103
680-143139-9	YMW-11	90	98	97	101
680-143139-10	YMW-13	92	104	95	102
680-143139-11	YMW-16	95	105	95	101
680-143139-12	YMW-19	94	103	95	101
680-143139-13	TRIP BLANK	91	99	95	102
680-143139-14	EQUIPMENT BLANK	90	98	98	101
680-143139-15	DUP-1	93	97	93	104
680-143139-15 - DL	DUP-1	97	97	99	100
680-143139-16	DUP-2	91	98	98	100
680-143139-16	DUP-2	120	97	113	99
680-143139-17	HMW-1	89	102	93	100
680-143139-18	SMW-1	93	99	99	101
680-143139-18	SMW-1	93	97	99	100
680-143139-19	SMW-3	92	96	96	98
680-143139-20	SMW-4	93	102	95	101
680-143139-21	SRW-1	94	104	96	101
680-143139-22	TRIP BLANK	92	98	98	101
LCS 680-495263/3	Lab Control Sample	86	94	92	104
LCS 680-495583/4	Lab Control Sample	91	97	97	108
LCS 680-495649/3	Lab Control Sample	97	97	101	99
LCS 680-496038/5	Lab Control Sample	101	95	103	102
LCS 680-496200/4	Lab Control Sample	99	94	101	102
LCS 680-496404/3	Lab Control Sample	96	97	101	101
LCSD 680-495263/4	Lab Control Sample Dup	87	100	94	106
LCSD 680-495583/5	Lab Control Sample Dup	89	99	96	108
LCSD 680-495649/4	Lab Control Sample Dup	95	98	101	99
LCSD 680-496038/6	Lab Control Sample Dup	100	96	101	102
LCSD 680-496200/5	Lab Control Sample Dup	102	95	103	104
LCSD 680-496404/4	Lab Control Sample Dup	103	99	107	107
MB 680-495263/8	Method Blank	89	102	94	100
MB 680-495583/9	Method Blank	88	103	94	99
MB 680-495649/8	Method Blank	91	98	97	99
MB 680-496038/10	Method Blank	96	97	100	100
MB 680-496200/10	Method Blank	96	95	100	101
MB 680-496404/8	Method Blank	100	100	104	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Surrogate Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-495263/8
Matrix: Water
Analysis Batch: 495263

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/20/17 10:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/20/17 10:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/20/17 10:42	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/20/17 10:42	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/20/17 10:42	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/20/17 10:42	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/20/17 10:42	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/20/17 10:42	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/20/17 10:42	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/20/17 10:42	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/20/17 10:42	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/20/17 10:42	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/20/17 10:42	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/20/17 10:42	1
2-Butanone	10	U	10		ug/L			09/20/17 10:42	1
2-Hexanone	10	U	10		ug/L			09/20/17 10:42	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/20/17 10:42	1
Acetone	10	U	10		ug/L			09/20/17 10:42	1
Benzene	1.0	U	1.0		ug/L			09/20/17 10:42	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/20/17 10:42	1
Bromoform	1.0	U	1.0		ug/L			09/20/17 10:42	1
Bromomethane	5.0	U	5.0		ug/L			09/20/17 10:42	1
Carbon disulfide	2.0	U	2.0		ug/L			09/20/17 10:42	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/20/17 10:42	1
Chlorobenzene	1.0	U	1.0		ug/L			09/20/17 10:42	1
Chloroethane	5.0	U	5.0		ug/L			09/20/17 10:42	1
Chloroform	1.0	U	1.0		ug/L			09/20/17 10:42	1
Chloromethane	1.0	U	1.0		ug/L			09/20/17 10:42	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/20/17 10:42	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/20/17 10:42	1
Cyclohexane	1.0	U	1.0		ug/L			09/20/17 10:42	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/20/17 10:42	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/20/17 10:42	1
Ethylbenzene	1.0	U	1.0		ug/L			09/20/17 10:42	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/20/17 10:42	1
Methyl acetate	5.0	U	5.0		ug/L			09/20/17 10:42	1
Methyl tert-butyl ether	10	U	10		ug/L			09/20/17 10:42	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/20/17 10:42	1
Methylene Chloride	5.0	U	5.0		ug/L			09/20/17 10:42	1
Naphthalene	5.0	U	5.0		ug/L			09/20/17 10:42	1
Styrene	1.0	U	1.0		ug/L			09/20/17 10:42	1
Tetrachloroethene	1.0	U	1.0		ug/L			09/20/17 10:42	1
Toluene	1.0	U	1.0		ug/L			09/20/17 10:42	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/20/17 10:42	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/20/17 10:42	1
Trichloroethene	1.0	U	1.0		ug/L			09/20/17 10:42	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/20/17 10:42	1
Vinyl chloride	1.0	U	1.0		ug/L			09/20/17 10:42	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-495263/8
Matrix: Water
Analysis Batch: 495263

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.0	U	1.0		ug/L			09/20/17 10:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*73 - 131*		*09/20/17 10:42*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*09/20/17 10:42*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 122*		*09/20/17 10:42*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/20/17 10:42*	*1*

Lab Sample ID: LCS 680-495263/3
Matrix: Water
Analysis Batch: 495263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	49.0		ug/L		98	80 - 120
1,1,2,2-Tetrachloroethane	50.0	45.2		ug/L		90	76 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.8		ug/L		102	75 - 128
1,1,2-Trichloroethane	50.0	47.8		ug/L		96	80 - 120
1,1-Dichloroethane	50.0	45.3		ug/L		91	80 - 120
1,1-Dichloroethene	50.0	46.0		ug/L		92	80 - 120
1,2,4-Trichlorobenzene	50.0	49.7		ug/L		99	71 - 126
1,2-Dibromo-3-Chloropropane	50.0	45.7		ug/L		91	74 - 120
1,2-Dibromoethane	50.0	45.0		ug/L		90	75 - 126
1,2-Dichlorobenzene	50.0	47.9		ug/L		96	80 - 120
1,2-Dichloroethane	50.0	42.3		ug/L		85	72 - 128
1,2-Dichloropropane	50.0	45.9		ug/L		92	80 - 120
1,3-Dichlorobenzene	50.0	47.7		ug/L		95	80 - 120
1,4-Dichlorobenzene	50.0	46.2		ug/L		92	80 - 120
2-Butanone	250	198		ug/L		79	79 - 125
2-Hexanone	250	253		ug/L		101	80 - 131
4-Methyl-2-pentanone	250	217		ug/L		87	80 - 134
Acetone	250	191		ug/L		77	68 - 132
Benzene	50.0	43.8		ug/L		88	80 - 120
Bromodichloromethane	50.0	47.0		ug/L		94	80 - 120
Bromoform	50.0	43.2		ug/L		86	52 - 122
Bromomethane	50.0	42.6		ug/L		85	43 - 146
Carbon disulfide	50.0	40.8		ug/L		82	77 - 129
Carbon tetrachloride	50.0	52.1		ug/L		104	67 - 125
Chlorobenzene	50.0	45.7		ug/L		91	80 - 120
Chloroethane	50.0	46.6		ug/L		93	48 - 145
Chloroform	50.0	46.3		ug/L		93	80 - 120
Chloromethane	50.0	51.2		ug/L		102	76 - 149
cis-1,2-Dichloroethene	50.0	43.9		ug/L		88	80 - 120
cis-1,3-Dichloropropene	50.0	45.8		ug/L		92	80 - 129
Cyclohexane	50.0	48.9		ug/L		98	80 - 132
Dibromochloromethane	50.0	51.9		ug/L		104	68 - 120
Dichlorodifluoromethane	50.0	54.0		ug/L		108	70 - 137
Ethylbenzene	50.0	47.6		ug/L		95	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-495263/3
Matrix: Water
Analysis Batch: 495263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	51.3		ug/L		103	79 - 126
Methyl acetate	250	172	*	ug/L		69	73 - 139
Methyl tert-butyl ether	50.0	42.1		ug/L		84	80 - 122
Methylcyclohexane	50.0	52.8		ug/L		106	80 - 138
Methylene Chloride	50.0	41.8		ug/L		84	80 - 120
Naphthalene	50.0	45.4		ug/L		91	61 - 136
Styrene	50.0	45.2		ug/L		90	80 - 126
Tetrachloroethene	50.0	54.8		ug/L		110	71 - 123
Toluene	50.0	46.0		ug/L		92	80 - 120
trans-1,2-Dichloroethene	50.0	44.8		ug/L		90	80 - 120
trans-1,3-Dichloropropene	50.0	49.7		ug/L		99	80 - 128
Trichloroethene	50.0	48.3		ug/L		97	80 - 120
Trichlorofluoromethane	50.0	55.4		ug/L		111	58 - 127
Vinyl chloride	50.0	53.2		ug/L		106	80 - 129
Xylenes, Total	100	93.1		ug/L		93	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*73 - 131*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*92*		*80 - 122*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: LCSD 680-495263/4
Matrix: Water
Analysis Batch: 495263

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	48.8		ug/L		98	80 - 120	0	20
1,1,2,2-Tetrachloroethane	50.0	46.6		ug/L		93	76 - 126	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.7		ug/L		97	75 - 128	4	20
1,1,2-Trichloroethane	50.0	45.9		ug/L		92	80 - 120	4	20
1,1-Dichloroethane	50.0	45.7		ug/L		91	80 - 120	1	20
1,1-Dichloroethene	50.0	45.4		ug/L		91	80 - 120	1	20
1,2,4-Trichlorobenzene	50.0	52.4		ug/L		105	71 - 126	5	20
1,2-Dibromo-3-Chloropropane	50.0	49.6		ug/L		99	74 - 120	8	20
1,2-Dibromoethane	50.0	46.1		ug/L		92	75 - 126	2	20
1,2-Dichlorobenzene	50.0	49.2		ug/L		98	80 - 120	3	20
1,2-Dichloroethane	50.0	43.5		ug/L		87	72 - 128	3	50
1,2-Dichloropropane	50.0	46.4		ug/L		93	80 - 120	1	20
1,3-Dichlorobenzene	50.0	48.7		ug/L		97	80 - 120	2	20
1,4-Dichlorobenzene	50.0	48.1		ug/L		96	80 - 120	4	20
2-Butanone	250	210		ug/L		84	79 - 125	6	20
2-Hexanone	250	267		ug/L		107	80 - 131	5	20
4-Methyl-2-pentanone	250	227		ug/L		91	80 - 134	5	20
Acetone	250	209		ug/L		84	68 - 132	9	30
Benzene	50.0	44.3		ug/L		89	80 - 120	1	20
Bromodichloromethane	50.0	47.8		ug/L		96	80 - 120	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-495263/4
Matrix: Water
Analysis Batch: 495263

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform			50.0	44.6		ug/L		89	52 - 122	3	20
Bromomethane			50.0	38.3		ug/L		77	43 - 146	10	20
Carbon disulfide			50.0	40.9		ug/L		82	77 - 129	0	20
Carbon tetrachloride			50.0	52.3		ug/L		105	67 - 125	0	20
Chlorobenzene			50.0	46.7		ug/L		93	80 - 120	2	20
Chloroethane			50.0	45.3		ug/L		91	48 - 145	3	20
Chloroform			50.0	46.7		ug/L		93	80 - 120	1	20
Chloromethane			50.0	51.3		ug/L		103	76 - 149	0	30
cis-1,2-Dichloroethene			50.0	45.2		ug/L		90	80 - 120	3	20
cis-1,3-Dichloropropene			50.0	46.6		ug/L		93	80 - 129	2	20
Cyclohexane			50.0	48.5		ug/L		97	80 - 132	1	20
Dibromochloromethane			50.0	52.2		ug/L		104	68 - 120	0	20
Dichlorodifluoromethane			50.0	53.1		ug/L		106	70 - 137	2	40
Ethylbenzene			50.0	48.3		ug/L		97	80 - 120	1	20
Isopropylbenzene			50.0	51.3		ug/L		103	79 - 126	0	20
Methyl acetate			250	189		ug/L		76	73 - 139	9	20
Methyl tert-butyl ether			50.0	43.2		ug/L		86	80 - 122	3	20
Methylcyclohexane			50.0	51.5		ug/L		103	80 - 138	3	20
Methylene Chloride			50.0	42.9		ug/L		86	80 - 120	3	20
Naphthalene			50.0	50.1		ug/L		100	61 - 136	10	20
Styrene			50.0	45.2		ug/L		90	80 - 126	0	20
Tetrachloroethene			50.0	51.0		ug/L		102	71 - 123	7	20
Toluene			50.0	47.0		ug/L		94	80 - 120	2	20
trans-1,2-Dichloroethene			50.0	45.3		ug/L		91	80 - 120	1	20
trans-1,3-Dichloropropene			50.0	48.6		ug/L		97	80 - 128	2	30
Trichloroethene			50.0	48.3		ug/L		97	80 - 120	0	20
Trichlorofluoromethane			50.0	54.7		ug/L		109	58 - 127	1	20
Vinyl chloride			50.0	54.4		ug/L		109	80 - 129	2	20
Xylenes, Total			100	94.2		ug/L		94	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*73 - 131*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*80 - 122*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: MB 680-495583/9
Matrix: Water
Analysis Batch: 495583

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/21/17 21:16	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-495583/9
Matrix: Water
Analysis Batch: 495583

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/21/17 21:16	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/21/17 21:16	1
2-Butanone	10	U	10		ug/L			09/21/17 21:16	1
2-Hexanone	10	U	10		ug/L			09/21/17 21:16	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/21/17 21:16	1
Acetone	10	U	10		ug/L			09/21/17 21:16	1
Benzene	1.0	U	1.0		ug/L			09/21/17 21:16	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
Bromoform	1.0	U	1.0		ug/L			09/21/17 21:16	1
Bromomethane	5.0	U	5.0		ug/L			09/21/17 21:16	1
Carbon disulfide	2.0	U	2.0		ug/L			09/21/17 21:16	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/21/17 21:16	1
Chlorobenzene	1.0	U	1.0		ug/L			09/21/17 21:16	1
Chloroethane	5.0	U	5.0		ug/L			09/21/17 21:16	1
Chloroform	1.0	U	1.0		ug/L			09/21/17 21:16	1
Chloromethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/21/17 21:16	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/21/17 21:16	1
Cyclohexane	1.0	U	1.0		ug/L			09/21/17 21:16	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
Ethylbenzene	1.0	U	1.0		ug/L			09/21/17 21:16	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/21/17 21:16	1
Methyl acetate	5.0	U	5.0		ug/L			09/21/17 21:16	1
Methyl tert-butyl ether	10	U	10		ug/L			09/21/17 21:16	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/21/17 21:16	1
Methylene Chloride	5.0	U	5.0		ug/L			09/21/17 21:16	1
Naphthalene	5.0	U	5.0		ug/L			09/21/17 21:16	1
Styrene	1.0	U	1.0		ug/L			09/21/17 21:16	1
Tetrachloroethene	1.0	U	1.0		ug/L			09/21/17 21:16	1
Toluene	1.0	U	1.0		ug/L			09/21/17 21:16	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/21/17 21:16	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/21/17 21:16	1
Trichloroethene	1.0	U	1.0		ug/L			09/21/17 21:16	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
Vinyl chloride	1.0	U	1.0		ug/L			09/21/17 21:16	1
Xylenes, Total	1.0	U	1.0		ug/L			09/21/17 21:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*73 - 131*		*09/21/17 21:16*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/21/17 21:16*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 122*		*09/21/17 21:16*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/21/17 21:16*	*1*

QC Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Lab Sample ID: LCS 680-495583/4
Matrix: Water
Analysis Batch: 495583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	54.2		ug/L		108	80 - 120
1,1,2,2-Tetrachloroethane	50.0	46.9		ug/L		94	76 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.7		ug/L		113	75 - 128
1,1,2-Trichloroethane	50.0	52.3		ug/L		105	80 - 120
1,1-Dichloroethane	50.0	51.0		ug/L		102	80 - 120
1,1-Dichloroethene	50.0	54.1		ug/L		108	80 - 120
1,2,4-Trichlorobenzene	50.0	57.3		ug/L		115	71 - 126
1,2-Dibromo-3-Chloropropane	50.0	52.0		ug/L		104	74 - 120
1,2-Dibromoethane	50.0	51.7		ug/L		103	75 - 126
1,2-Dichlorobenzene	50.0	52.6		ug/L		105	80 - 120
1,2-Dichloroethane	50.0	48.2		ug/L		96	72 - 128
1,2-Dichloropropane	50.0	50.7		ug/L		101	80 - 120
1,3-Dichlorobenzene	50.0	53.1		ug/L		106	80 - 120
1,4-Dichlorobenzene	50.0	52.3		ug/L		105	80 - 120
2-Butanone	250	217		ug/L		87	79 - 125
2-Hexanone	250	272		ug/L		109	80 - 131
4-Methyl-2-pentanone	250	233		ug/L		93	80 - 134
Acetone	250	216		ug/L		87	68 - 132
Benzene	50.0	51.0		ug/L		102	80 - 120
Bromodichloromethane	50.0	52.0		ug/L		104	80 - 120
Bromoform	50.0	47.3		ug/L		95	52 - 122
Bromomethane	50.0	37.7		ug/L		75	43 - 146
Carbon disulfide	50.0	55.3		ug/L		111	77 - 129
Carbon tetrachloride	50.0	59.5		ug/L		119	67 - 125
Chlorobenzene	50.0	51.8		ug/L		104	80 - 120
Chloroethane	50.0	45.3		ug/L		91	48 - 145
Chloroform	50.0	50.4		ug/L		101	80 - 120
Chloromethane	50.0	48.3		ug/L		97	76 - 149
cis-1,2-Dichloroethene	50.0	49.6		ug/L		99	80 - 120
cis-1,3-Dichloropropene	50.0	51.9		ug/L		104	80 - 129
Cyclohexane	50.0	61.2		ug/L		122	80 - 132
Dibromochloromethane	50.0	56.7		ug/L		113	68 - 120
Dichlorodifluoromethane	50.0	46.6		ug/L		93	70 - 137
Ethylbenzene	50.0	55.3		ug/L		111	80 - 120
Isopropylbenzene	50.0	57.7		ug/L		115	79 - 126
Methyl acetate	250	204		ug/L		81	73 - 139
Methyl tert-butyl ether	50.0	46.7		ug/L		93	80 - 122
Methylcyclohexane	50.0	67.0		ug/L		134	80 - 138
Methylene Chloride	50.0	47.9		ug/L		96	80 - 120
Naphthalene	50.0	53.9		ug/L		108	61 - 136
Styrene	50.0	50.9		ug/L		102	80 - 126
Tetrachloroethene	50.0	67.4	*	ug/L		135	71 - 123
Toluene	50.0	55.0		ug/L		110	80 - 120
trans-1,2-Dichloroethene	50.0	53.6		ug/L		107	80 - 120
trans-1,3-Dichloropropene	50.0	52.9		ug/L		106	80 - 128
Trichloroethene	50.0	56.6		ug/L		113	80 - 120
Trichlorofluoromethane	50.0	51.8		ug/L		104	58 - 127
Vinyl chloride	50.0	50.5		ug/L		101	80 - 129
Xylenes, Total	100	108		ug/L		108	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-495583/4
Matrix: Water
Analysis Batch: 495583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		73 - 131
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	97		80 - 122
Toluene-d8 (Surr)	108		80 - 120

Lab Sample ID: LCSD 680-495583/5
Matrix: Water
Analysis Batch: 495583

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	53.7		ug/L		107	80 - 120	1	20
1,1,2,2-Tetrachloroethane			50.0	48.1		ug/L		96	76 - 126	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	55.8		ug/L		112	75 - 128	2	20
1,1,2-Trichloroethane			50.0	52.1		ug/L		104	80 - 120	0	20
1,1-Dichloroethane			50.0	50.9		ug/L		102	80 - 120	0	20
1,1-Dichloroethene			50.0	52.3		ug/L		105	80 - 120	3	20
1,2,4-Trichlorobenzene			50.0	58.5		ug/L		117	71 - 126	2	20
1,2-Dibromo-3-Chloropropane			50.0	53.5		ug/L		107	74 - 120	3	20
1,2-Dibromoethane			50.0	51.6		ug/L		103	75 - 126	0	20
1,2-Dichlorobenzene			50.0	53.8		ug/L		108	80 - 120	2	20
1,2-Dichloroethane			50.0	47.5		ug/L		95	72 - 128	1	50
1,2-Dichloropropane			50.0	51.4		ug/L		103	80 - 120	1	20
1,3-Dichlorobenzene			50.0	53.4		ug/L		107	80 - 120	1	20
1,4-Dichlorobenzene			50.0	52.4		ug/L		105	80 - 120	0	20
2-Butanone			250	215		ug/L		86	79 - 125	1	20
2-Hexanone			250	272		ug/L		109	80 - 131	0	20
4-Methyl-2-pentanone			250	232		ug/L		93	80 - 134	0	20
Acetone			250	207		ug/L		83	68 - 132	4	30
Benzene			50.0	50.8		ug/L		102	80 - 120	0	20
Bromodichloromethane			50.0	51.9		ug/L		104	80 - 120	0	20
Bromoform			50.0	47.4		ug/L		95	52 - 122	0	20
Bromomethane			50.0	38.7		ug/L		77	43 - 146	2	20
Carbon disulfide			50.0	55.3		ug/L		111	77 - 129	0	20
Carbon tetrachloride			50.0	58.5		ug/L		117	67 - 125	2	20
Chlorobenzene			50.0	53.0		ug/L		106	80 - 120	2	20
Chloroethane			50.0	45.6		ug/L		91	48 - 145	1	20
Chloroform			50.0	50.3		ug/L		101	80 - 120	0	20
Chloromethane			50.0	48.0		ug/L		96	76 - 149	0	30
cis-1,2-Dichloroethene			50.0	49.2		ug/L		98	80 - 120	1	20
cis-1,3-Dichloropropene			50.0	52.0		ug/L		104	80 - 129	0	20
Cyclohexane			50.0	60.9		ug/L		122	80 - 132	1	20
Dibromochloromethane			50.0	57.5		ug/L		115	68 - 120	1	20
Dichlorodifluoromethane			50.0	44.4		ug/L		89	70 - 137	5	40
Ethylbenzene			50.0	56.3		ug/L		113	80 - 120	2	20
Isopropylbenzene			50.0	58.6		ug/L		117	79 - 126	2	20
Methyl acetate			250	201		ug/L		81	73 - 139	1	20
Methyl tert-butyl ether			50.0	46.8		ug/L		94	80 - 122	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-495583/5
Matrix: Water
Analysis Batch: 495583

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylcyclohexane			50.0	65.5		ug/L		131	80 - 138	2	20
Methylene Chloride			50.0	47.4		ug/L		95	80 - 120	1	20
Naphthalene			50.0	56.0		ug/L		112	61 - 136	4	20
Styrene			50.0	51.2		ug/L		102	80 - 126	1	20
Tetrachloroethene			50.0	67.1	*	ug/L		134	71 - 123	1	20
Toluene			50.0	54.7		ug/L		109	80 - 120	1	20
trans-1,2-Dichloroethene			50.0	52.3		ug/L		105	80 - 120	2	20
trans-1,3-Dichloropropene			50.0	54.5		ug/L		109	80 - 128	3	30
Trichloroethene			50.0	56.3		ug/L		113	80 - 120	0	20
Trichlorofluoromethane			50.0	52.1		ug/L		104	58 - 127	0	20
Vinyl chloride			50.0	48.8		ug/L		98	80 - 129	3	20
Xylenes, Total			100	109		ug/L		109	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*73 - 131*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 122*
Toluene-d8 (Surr)	*108*		*80 - 120*

Lab Sample ID: MB 680-495649/8
Matrix: Water
Analysis Batch: 495649

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/22/17 12:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/22/17 12:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/22/17 12:44	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/22/17 12:44	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/22/17 12:44	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 12:44	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/22/17 12:44	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/22/17 12:44	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/22/17 12:44	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 12:44	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/22/17 12:44	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/22/17 12:44	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 12:44	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/22/17 12:44	1
2-Butanone	10	U	10		ug/L			09/22/17 12:44	1
2-Hexanone	10	U	10		ug/L			09/22/17 12:44	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/22/17 12:44	1
Acetone	10	U	10		ug/L			09/22/17 12:44	1
Benzene	1.0	U	1.0		ug/L			09/22/17 12:44	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/22/17 12:44	1
Bromoform	1.0	U	1.0		ug/L			09/22/17 12:44	1
Bromomethane	5.0	U	5.0		ug/L			09/22/17 12:44	1
Carbon disulfide	2.0	U	2.0		ug/L			09/22/17 12:44	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/22/17 12:44	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-495649/8
Matrix: Water
Analysis Batch: 495649

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0		ug/L			09/22/17 12:44	1
Chloroethane	5.0	U	5.0		ug/L			09/22/17 12:44	1
Chloroform	1.0	U	1.0		ug/L			09/22/17 12:44	1
Chloromethane	1.0	U	1.0		ug/L			09/22/17 12:44	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 12:44	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/22/17 12:44	1
Cyclohexane	1.0	U	1.0		ug/L			09/22/17 12:44	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/22/17 12:44	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/22/17 12:44	1
Ethylbenzene	1.0	U	1.0		ug/L			09/22/17 12:44	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/22/17 12:44	1
Methyl acetate	5.0	U	5.0		ug/L			09/22/17 12:44	1
Methyl tert-butyl ether	10	U	10		ug/L			09/22/17 12:44	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/22/17 12:44	1
Methylene Chloride	5.0	U	5.0		ug/L			09/22/17 12:44	1
Naphthalene	5.0	U	5.0		ug/L			09/22/17 12:44	1
Styrene	1.0	U	1.0		ug/L			09/22/17 12:44	1
Tetrachloroethene	1.0	U	1.0		ug/L			09/22/17 12:44	1
Toluene	1.0	U	1.0		ug/L			09/22/17 12:44	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/22/17 12:44	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/22/17 12:44	1
Trichloroethene	1.0	U	1.0		ug/L			09/22/17 12:44	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/22/17 12:44	1
Vinyl chloride	1.0	U	1.0		ug/L			09/22/17 12:44	1
Xylenes, Total	1.0	U	1.0		ug/L			09/22/17 12:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*73 - 131*		*09/22/17 12:44*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/22/17 12:44*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*09/22/17 12:44*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/22/17 12:44*	*1*

Lab Sample ID: LCS 680-495649/3
Matrix: Water
Analysis Batch: 495649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	50.1		ug/L		100	80 - 120
1,1,2,2-Tetrachloroethane	50.0	50.2		ug/L		100	76 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.1		ug/L		102	75 - 128
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	80 - 120
1,1-Dichloroethane	50.0	50.6		ug/L		101	80 - 120
1,1-Dichloroethene	50.0	51.8		ug/L		104	80 - 120
1,2,4-Trichlorobenzene	50.0	51.1		ug/L		102	71 - 126
1,2-Dibromo-3-Chloropropane	50.0	48.9		ug/L		98	74 - 120
1,2-Dibromoethane	50.0	50.2		ug/L		100	75 - 126
1,2-Dichlorobenzene	50.0	50.7		ug/L		101	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-495649/3
Matrix: Water
Analysis Batch: 495649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	50.2		ug/L		100	72 - 128
1,2-Dichloropropane	50.0	52.0		ug/L		104	80 - 120
1,3-Dichlorobenzene	50.0	50.0		ug/L		100	80 - 120
1,4-Dichlorobenzene	50.0	49.4		ug/L		99	80 - 120
2-Butanone	250	249		ug/L		100	79 - 125
2-Hexanone	250	232		ug/L		93	80 - 131
4-Methyl-2-pentanone	250	234		ug/L		94	80 - 134
Acetone	250	239		ug/L		95	68 - 132
Benzene	50.0	50.7		ug/L		101	80 - 120
Bromodichloromethane	50.0	51.9		ug/L		104	80 - 120
Bromoform	50.0	50.3		ug/L		101	52 - 122
Bromomethane	50.0	56.8		ug/L		114	43 - 146
Carbon disulfide	50.0	52.4		ug/L		105	77 - 129
Carbon tetrachloride	50.0	50.4		ug/L		101	67 - 125
Chlorobenzene	50.0	50.6		ug/L		101	80 - 120
Chloroethane	50.0	58.6		ug/L		117	48 - 145
Chloroform	50.0	51.0		ug/L		102	80 - 120
Chloromethane	50.0	49.7		ug/L		99	76 - 149
cis-1,2-Dichloroethene	50.0	50.6		ug/L		101	80 - 120
cis-1,3-Dichloropropene	50.0	52.5		ug/L		105	80 - 129
Cyclohexane	50.0	50.5		ug/L		101	80 - 132
Dibromochloromethane	50.0	50.7		ug/L		101	68 - 120
Dichlorodifluoromethane	50.0	48.5		ug/L		97	70 - 137
Ethylbenzene	50.0	50.4		ug/L		101	80 - 120
Isopropylbenzene	50.0	50.2		ug/L		100	79 - 126
Methyl acetate	250	228		ug/L		91	73 - 139
Methyl tert-butyl ether	50.0	51.0		ug/L		102	80 - 122
Methylcyclohexane	50.0	50.9		ug/L		102	80 - 138
Methylene Chloride	50.0	52.1		ug/L		104	80 - 120
Naphthalene	50.0	48.7		ug/L		97	61 - 136
Styrene	50.0	51.5		ug/L		103	80 - 126
Tetrachloroethene	50.0	50.6		ug/L		101	71 - 123
Toluene	50.0	50.6		ug/L		101	80 - 120
trans-1,2-Dichloroethene	50.0	53.0		ug/L		106	80 - 120
trans-1,3-Dichloropropene	50.0	52.2		ug/L		104	80 - 128
Trichloroethene	50.0	51.6		ug/L		103	80 - 120
Trichlorofluoromethane	50.0	51.8		ug/L		104	58 - 127
Vinyl chloride	50.0	49.2		ug/L		98	80 - 129
Xylenes, Total	100	101		ug/L		101	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 122*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-495649/4
Matrix: Water
Analysis Batch: 495649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	50.5		ug/L		101	80 - 120	1	20
1,1,2,2-Tetrachloroethane	50.0	48.4		ug/L		97	76 - 126	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.5		ug/L		103	75 - 128	1	20
1,1,2-Trichloroethane	50.0	50.1		ug/L		100	80 - 120	2	20
1,1-Dichloroethane	50.0	50.9		ug/L		102	80 - 120	1	20
1,1-Dichloroethene	50.0	52.9		ug/L		106	80 - 120	2	20
1,2,4-Trichlorobenzene	50.0	51.3		ug/L		103	71 - 126	0	20
1,2-Dibromo-3-Chloropropane	50.0	48.3		ug/L		97	74 - 120	1	20
1,2-Dibromoethane	50.0	48.7		ug/L		97	75 - 126	3	20
1,2-Dichlorobenzene	50.0	50.8		ug/L		102	80 - 120	0	20
1,2-Dichloroethane	50.0	49.2		ug/L		98	72 - 128	2	50
1,2-Dichloropropane	50.0	51.9		ug/L		104	80 - 120	0	20
1,3-Dichlorobenzene	50.0	50.1		ug/L		100	80 - 120	0	20
1,4-Dichlorobenzene	50.0	50.3		ug/L		101	80 - 120	2	20
2-Butanone	250	237		ug/L		95	79 - 125	5	20
2-Hexanone	250	223		ug/L		89	80 - 131	4	20
4-Methyl-2-pentanone	250	224		ug/L		90	80 - 134	4	20
Acetone	250	231		ug/L		92	68 - 132	3	30
Benzene	50.0	50.7		ug/L		101	80 - 120	0	20
Bromodichloromethane	50.0	51.0		ug/L		102	80 - 120	2	20
Bromoform	50.0	48.6		ug/L		97	52 - 122	3	20
Bromomethane	50.0	57.8		ug/L		116	43 - 146	2	20
Carbon disulfide	50.0	53.1		ug/L		106	77 - 129	1	20
Carbon tetrachloride	50.0	50.9		ug/L		102	67 - 125	1	20
Chlorobenzene	50.0	50.8		ug/L		102	80 - 120	0	20
Chloroethane	50.0	59.4		ug/L		119	48 - 145	1	20
Chloroform	50.0	51.2		ug/L		102	80 - 120	0	20
Chloromethane	50.0	50.9		ug/L		102	76 - 149	2	30
cis-1,2-Dichloroethene	50.0	50.4		ug/L		101	80 - 120	0	20
cis-1,3-Dichloropropene	50.0	52.1		ug/L		104	80 - 129	1	20
Cyclohexane	50.0	51.3		ug/L		103	80 - 132	1	20
Dibromochloromethane	50.0	49.6		ug/L		99	68 - 120	2	20
Dichlorodifluoromethane	50.0	49.4		ug/L		99	70 - 137	2	40
Ethylbenzene	50.0	50.8		ug/L		102	80 - 120	1	20
Isopropylbenzene	50.0	50.3		ug/L		101	79 - 126	0	20
Methyl acetate	250	217		ug/L		87	73 - 139	5	20
Methyl tert-butyl ether	50.0	50.6		ug/L		101	80 - 122	1	20
Methylcyclohexane	50.0	51.5		ug/L		103	80 - 138	1	20
Methylene Chloride	50.0	51.3		ug/L		103	80 - 120	2	20
Naphthalene	50.0	47.6		ug/L		95	61 - 136	2	20
Styrene	50.0	51.3		ug/L		103	80 - 126	0	20
Tetrachloroethene	50.0	50.7		ug/L		101	71 - 123	0	20
Toluene	50.0	50.2		ug/L		100	80 - 120	1	20
trans-1,2-Dichloroethene	50.0	53.1		ug/L		106	80 - 120	0	20
trans-1,3-Dichloropropene	50.0	50.8		ug/L		102	80 - 128	3	30
Trichloroethene	50.0	51.3		ug/L		103	80 - 120	0	20
Trichlorofluoromethane	50.0	50.8		ug/L		102	58 - 127	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-495649/4
Matrix: Water
Analysis Batch: 495649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride			50.0	50.4		ug/L		101	80 - 129	2	20
Xylenes, Total			100	101		ug/L		101	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*73 - 131*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 122*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 680-496038/10
Matrix: Water
Analysis Batch: 496038

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/26/17 14:33	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/26/17 14:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/26/17 14:33	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/26/17 14:33	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/26/17 14:33	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/26/17 14:33	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/26/17 14:33	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/26/17 14:33	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/26/17 14:33	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/26/17 14:33	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/26/17 14:33	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/26/17 14:33	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/26/17 14:33	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/26/17 14:33	1
2-Butanone	10	U	10		ug/L			09/26/17 14:33	1
2-Hexanone	10	U	10		ug/L			09/26/17 14:33	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/26/17 14:33	1
Acetone	10	U	10		ug/L			09/26/17 14:33	1
Benzene	1.0	U	1.0		ug/L			09/26/17 14:33	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/26/17 14:33	1
Bromoform	1.0	U	1.0		ug/L			09/26/17 14:33	1
Bromomethane	5.0	U	5.0		ug/L			09/26/17 14:33	1
Carbon disulfide	2.0	U	2.0		ug/L			09/26/17 14:33	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/26/17 14:33	1
Chlorobenzene	1.0	U	1.0		ug/L			09/26/17 14:33	1
Chloroethane	5.0	U	5.0		ug/L			09/26/17 14:33	1
Chloroform	1.0	U	1.0		ug/L			09/26/17 14:33	1
Chloromethane	1.0	U	1.0		ug/L			09/26/17 14:33	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/26/17 14:33	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/26/17 14:33	1
Cyclohexane	1.0	U	1.0		ug/L			09/26/17 14:33	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/26/17 14:33	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/26/17 14:33	1
Ethylbenzene	1.0	U	1.0		ug/L			09/26/17 14:33	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-496038/10
Matrix: Water
Analysis Batch: 496038

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	1.0	U	1.0		ug/L			09/26/17 14:33	1
Methyl acetate	5.0	U	5.0		ug/L			09/26/17 14:33	1
Methyl tert-butyl ether	10	U	10		ug/L			09/26/17 14:33	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/26/17 14:33	1
Methylene Chloride	5.0	U	5.0		ug/L			09/26/17 14:33	1
Naphthalene	5.0	U	5.0		ug/L			09/26/17 14:33	1
Styrene	1.0	U	1.0		ug/L			09/26/17 14:33	1
Tetrachloroethene	1.0	U	1.0		ug/L			09/26/17 14:33	1
Toluene	1.0	U	1.0		ug/L			09/26/17 14:33	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/26/17 14:33	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/26/17 14:33	1
Trichloroethene	1.0	U	1.0		ug/L			09/26/17 14:33	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/26/17 14:33	1
Vinyl chloride	1.0	U	1.0		ug/L			09/26/17 14:33	1
Xylenes, Total	1.0	U	1.0		ug/L			09/26/17 14:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*		*09/26/17 14:33*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/26/17 14:33*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*09/26/17 14:33*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/26/17 14:33*	*1*

Lab Sample ID: LCS 680-496038/5
Matrix: Water
Analysis Batch: 496038

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	52.7		ug/L		105	80 - 120
1,1,2,2-Tetrachloroethane	50.0	51.3		ug/L		103	76 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.5		ug/L		95	75 - 128
1,1,2-Trichloroethane	50.0	52.7		ug/L		105	80 - 120
1,1-Dichloroethane	50.0	52.8		ug/L		106	80 - 120
1,1-Dichloroethene	50.0	53.7		ug/L		107	80 - 120
1,2,4-Trichlorobenzene	50.0	46.1		ug/L		92	71 - 126
1,2-Dibromo-3-Chloropropane	50.0	53.5		ug/L		107	74 - 120
1,2-Dibromoethane	50.0	52.1		ug/L		104	75 - 126
1,2-Dichlorobenzene	50.0	48.5		ug/L		97	80 - 120
1,2-Dichloroethane	50.0	52.1		ug/L		104	72 - 128
1,2-Dichloropropane	50.0	51.7		ug/L		103	80 - 120
1,3-Dichlorobenzene	50.0	49.8		ug/L		100	80 - 120
1,4-Dichlorobenzene	50.0	48.3		ug/L		97	80 - 120
2-Butanone	250	257		ug/L		103	79 - 125
2-Hexanone	250	260		ug/L		104	80 - 131
4-Methyl-2-pentanone	250	253		ug/L		101	80 - 134
Acetone	250	252		ug/L		101	68 - 132
Benzene	50.0	51.5		ug/L		103	80 - 120
Bromodichloromethane	50.0	52.0		ug/L		104	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-496038/5
Matrix: Water
Analysis Batch: 496038

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	50.0	51.1		ug/L		102	52 - 122
Bromomethane	50.0	49.9		ug/L		100	43 - 146
Carbon disulfide	50.0	49.4		ug/L		99	77 - 129
Carbon tetrachloride	50.0	46.7		ug/L		93	67 - 125
Chlorobenzene	50.0	50.7		ug/L		101	80 - 120
Chloroethane	50.0	48.1		ug/L		96	48 - 145
Chloroform	50.0	52.1		ug/L		104	80 - 120
Chloromethane	50.0	43.6		ug/L		87	76 - 149
cis-1,2-Dichloroethene	50.0	53.0		ug/L		106	80 - 120
cis-1,3-Dichloropropene	50.0	53.0		ug/L		106	80 - 129
Cyclohexane	50.0	49.7		ug/L		99	80 - 132
Dibromochloromethane	50.0	52.8		ug/L		106	68 - 120
Dichlorodifluoromethane	50.0	37.4		ug/L		75	70 - 137
Ethylbenzene	50.0	53.0		ug/L		106	80 - 120
Isopropylbenzene	50.0	54.0		ug/L		108	79 - 126
Methyl acetate	250	245		ug/L		98	73 - 139
Methyl tert-butyl ether	50.0	52.8		ug/L		106	80 - 122
Methylcyclohexane	50.0	56.3		ug/L		113	80 - 138
Methylene Chloride	50.0	50.9		ug/L		102	80 - 120
Naphthalene	50.0	47.9		ug/L		96	61 - 136
Styrene	50.0	52.7		ug/L		105	80 - 126
Tetrachloroethene	50.0	50.3		ug/L		101	71 - 123
Toluene	50.0	53.2		ug/L		106	80 - 120
trans-1,2-Dichloroethene	50.0	46.7		ug/L		93	80 - 120
trans-1,3-Dichloropropene	50.0	55.1		ug/L		110	80 - 128
Trichloroethene	50.0	53.1		ug/L		106	80 - 120
Trichlorofluoromethane	50.0	49.9		ug/L		100	58 - 127
Vinyl chloride	50.0	45.1		ug/L		90	80 - 129
Xylenes, Total	100	106		ug/L		106	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 131*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 122*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: LCSD 680-496038/6
Matrix: Water
Analysis Batch: 496038

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	52.8		ug/L		106	80 - 120	0	20
1,1,2,2-Tetrachloroethane	50.0	48.9		ug/L		98	76 - 126	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.2		ug/L		96	75 - 128	2	20
1,1,2-Trichloroethane	50.0	51.0		ug/L		102	80 - 120	3	20
1,1-Dichloroethane	50.0	52.6		ug/L		105	80 - 120	0	20
1,1-Dichloroethene	50.0	53.6		ug/L		107	80 - 120	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-496038/6
Matrix: Water
Analysis Batch: 496038

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene			50.0	47.0		ug/L		94	71 - 126	2	20
1,2-Dibromo-3-Chloropropane			50.0	51.9		ug/L		104	74 - 120	3	20
1,2-Dibromoethane			50.0	50.4		ug/L		101	75 - 126	3	20
1,2-Dichlorobenzene			50.0	48.9		ug/L		98	80 - 120	1	20
1,2-Dichloroethane			50.0	51.1		ug/L		102	72 - 128	2	50
1,2-Dichloropropane			50.0	50.9		ug/L		102	80 - 120	2	20
1,3-Dichlorobenzene			50.0	51.2		ug/L		102	80 - 120	3	20
1,4-Dichlorobenzene			50.0	48.5		ug/L		97	80 - 120	0	20
2-Butanone			250	236		ug/L		95	79 - 125	8	20
2-Hexanone			250	243		ug/L		97	80 - 131	6	20
4-Methyl-2-pentanone			250	241		ug/L		96	80 - 134	5	20
Acetone			250	237		ug/L		95	68 - 132	6	30
Benzene			50.0	50.9		ug/L		102	80 - 120	1	20
Bromodichloromethane			50.0	50.5		ug/L		101	80 - 120	3	20
Bromoform			50.0	49.9		ug/L		100	52 - 122	2	20
Bromomethane			50.0	44.3		ug/L		89	43 - 146	12	20
Carbon disulfide			50.0	49.4		ug/L		99	77 - 129	0	20
Carbon tetrachloride			50.0	48.0		ug/L		96	67 - 125	3	20
Chlorobenzene			50.0	50.0		ug/L		100	80 - 120	1	20
Chloroethane			50.0	48.4		ug/L		97	48 - 145	0	20
Chloroform			50.0	50.6		ug/L		101	80 - 120	3	20
Chloromethane			50.0	42.9		ug/L		86	76 - 149	1	30
cis-1,2-Dichloroethene			50.0	52.1		ug/L		104	80 - 120	2	20
cis-1,3-Dichloropropene			50.0	51.3		ug/L		103	80 - 129	3	20
Cyclohexane			50.0	48.5		ug/L		97	80 - 132	2	20
Dibromochloromethane			50.0	50.6		ug/L		101	68 - 120	4	20
Dichlorodifluoromethane			50.0	38.2		ug/L		76	70 - 137	2	40
Ethylbenzene			50.0	53.1		ug/L		106	80 - 120	0	20
Isopropylbenzene			50.0	54.1		ug/L		108	79 - 126	0	20
Methyl acetate			250	234		ug/L		94	73 - 139	5	20
Methyl tert-butyl ether			50.0	50.3		ug/L		101	80 - 122	5	20
Methylcyclohexane			50.0	55.6		ug/L		111	80 - 138	1	20
Methylene Chloride			50.0	49.8		ug/L		100	80 - 120	2	20
Naphthalene			50.0	47.7		ug/L		95	61 - 136	0	20
Styrene			50.0	52.1		ug/L		104	80 - 126	1	20
Tetrachloroethene			50.0	50.6		ug/L		101	71 - 123	1	20
Toluene			50.0	52.3		ug/L		105	80 - 120	2	20
trans-1,2-Dichloroethene			50.0	46.9		ug/L		94	80 - 120	0	20
trans-1,3-Dichloropropene			50.0	53.3		ug/L		107	80 - 128	3	30
Trichloroethene			50.0	52.9		ug/L		106	80 - 120	1	20
Trichlorofluoromethane			50.0	50.2		ug/L		100	58 - 127	1	20
Vinyl chloride			50.0	45.3		ug/L		91	80 - 129	1	20
Xylenes, Total			100	105		ug/L		105	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 122*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-496038/6
Matrix: Water
Analysis Batch: 496038

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: MB 680-496200/10
Matrix: Water
Analysis Batch: 496200

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/27/17 11:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/27/17 11:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/27/17 11:13	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/27/17 11:13	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/27/17 11:13	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/27/17 11:13	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/27/17 11:13	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/27/17 11:13	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/27/17 11:13	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/27/17 11:13	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/27/17 11:13	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/27/17 11:13	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/27/17 11:13	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/27/17 11:13	1
2-Butanone	10	U	10		ug/L			09/27/17 11:13	1
2-Hexanone	10	U	10		ug/L			09/27/17 11:13	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/27/17 11:13	1
Acetone	10	U	10		ug/L			09/27/17 11:13	1
Benzene	1.0	U	1.0		ug/L			09/27/17 11:13	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/27/17 11:13	1
Bromoform	1.0	U	1.0		ug/L			09/27/17 11:13	1
Bromomethane	5.0	U	5.0		ug/L			09/27/17 11:13	1
Carbon disulfide	2.0	U	2.0		ug/L			09/27/17 11:13	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/27/17 11:13	1
Chlorobenzene	1.0	U	1.0		ug/L			09/27/17 11:13	1
Chloroethane	5.0	U	5.0		ug/L			09/27/17 11:13	1
Chloroform	1.0	U	1.0		ug/L			09/27/17 11:13	1
Chloromethane	1.0	U	1.0		ug/L			09/27/17 11:13	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/27/17 11:13	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/27/17 11:13	1
Cyclohexane	1.0	U	1.0		ug/L			09/27/17 11:13	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/27/17 11:13	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/27/17 11:13	1
Ethylbenzene	1.0	U	1.0		ug/L			09/27/17 11:13	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/27/17 11:13	1
Methyl acetate	5.0	U	5.0		ug/L			09/27/17 11:13	1
Methyl tert-butyl ether	10	U	10		ug/L			09/27/17 11:13	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/27/17 11:13	1
Methylene Chloride	5.0	U	5.0		ug/L			09/27/17 11:13	1
Naphthalene	5.0	U	5.0		ug/L			09/27/17 11:13	1
Styrene	1.0	U	1.0		ug/L			09/27/17 11:13	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-496200/10
Matrix: Water
Analysis Batch: 496200

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0		ug/L			09/27/17 11:13	1
Toluene	1.0	U	1.0		ug/L			09/27/17 11:13	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/27/17 11:13	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/27/17 11:13	1
Trichloroethene	1.0	U	1.0		ug/L			09/27/17 11:13	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/27/17 11:13	1
Vinyl chloride	1.0	U	1.0		ug/L			09/27/17 11:13	1
Xylenes, Total	1.0	U	1.0		ug/L			09/27/17 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*		*09/27/17 11:13*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*09/27/17 11:13*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*09/27/17 11:13*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/27/17 11:13*	*1*

Lab Sample ID: LCS 680-496200/4
Matrix: Water
Analysis Batch: 496200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	53.5		ug/L		107	80 - 120
1,1,2,2-Tetrachloroethane	50.0	46.4		ug/L		93	76 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.8		ug/L		98	75 - 128
1,1,2-Trichloroethane	50.0	49.6		ug/L		99	80 - 120
1,1-Dichloroethane	50.0	53.8		ug/L		108	80 - 120
1,1-Dichloroethene	50.0	55.4		ug/L		111	80 - 120
1,2,4-Trichlorobenzene	50.0	45.7		ug/L		91	71 - 126
1,2-Dibromo-3-Chloropropane	50.0	48.4		ug/L		97	74 - 120
1,2-Dibromoethane	50.0	48.3		ug/L		97	75 - 126
1,2-Dichlorobenzene	50.0	48.1		ug/L		96	80 - 120
1,2-Dichloroethane	50.0	51.6		ug/L		103	72 - 128
1,2-Dichloropropane	50.0	51.2		ug/L		102	80 - 120
1,3-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120
1,4-Dichlorobenzene	50.0	47.9		ug/L		96	80 - 120
2-Butanone	250	225		ug/L		90	79 - 125
2-Hexanone	250	230		ug/L		92	80 - 131
4-Methyl-2-pentanone	250	226		ug/L		90	80 - 134
Acetone	250	241		ug/L		97	68 - 132
Benzene	50.0	51.7		ug/L		103	80 - 120
Bromodichloromethane	50.0	49.8		ug/L		100	80 - 120
Bromoform	50.0	45.2		ug/L		90	52 - 122
Bromomethane	50.0	51.8		ug/L		104	43 - 146
Carbon disulfide	50.0	52.5		ug/L		105	77 - 129
Carbon tetrachloride	50.0	46.3		ug/L		93	67 - 125
Chlorobenzene	50.0	50.1		ug/L		100	80 - 120
Chloroethane	50.0	50.6		ug/L		101	48 - 145
Chloroform	50.0	51.8		ug/L		104	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-496200/4
Matrix: Water
Analysis Batch: 496200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	49.1		ug/L		98	76 - 149
cis-1,2-Dichloroethene	50.0	52.8		ug/L		106	80 - 120
cis-1,3-Dichloropropene	50.0	51.1		ug/L		102	80 - 129
Cyclohexane	50.0	49.2		ug/L		98	80 - 132
Dibromochloromethane	50.0	48.4		ug/L		97	68 - 120
Dichlorodifluoromethane	50.0	52.2		ug/L		104	70 - 137
Ethylbenzene	50.0	52.1		ug/L		104	80 - 120
Isopropylbenzene	50.0	52.7		ug/L		105	79 - 126
Methyl acetate	250	222		ug/L		89	73 - 139
Methyl tert-butyl ether	50.0	51.0		ug/L		102	80 - 122
Methylcyclohexane	50.0	56.1		ug/L		112	80 - 138
Methylene Chloride	50.0	51.1		ug/L		102	80 - 120
Naphthalene	50.0	44.8		ug/L		90	61 - 136
Styrene	50.0	51.5		ug/L		103	80 - 126
Tetrachloroethene	50.0	50.0		ug/L		100	71 - 123
Toluene	50.0	52.1		ug/L		104	80 - 120
trans-1,2-Dichloroethene	50.0	47.6		ug/L		95	80 - 120
trans-1,3-Dichloropropene	50.0	51.7		ug/L		103	80 - 128
Trichloroethene	50.0	52.7		ug/L		105	80 - 120
Trichlorofluoromethane	50.0	52.0		ug/L		104	58 - 127
Vinyl chloride	50.0	51.6		ug/L		103	80 - 129
Xylenes, Total	100	104		ug/L		104	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 122*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: LCSD 680-496200/5
Matrix: Water
Analysis Batch: 496200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	53.4		ug/L		107	80 - 120	0	20
1,1,2,2-Tetrachloroethane	50.0	47.7		ug/L		95	76 - 126	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.7		ug/L		95	75 - 128	2	20
1,1,2-Trichloroethane	50.0	51.1		ug/L		102	80 - 120	3	20
1,1-Dichloroethane	50.0	54.4		ug/L		109	80 - 120	1	20
1,1-Dichloroethene	50.0	54.8		ug/L		110	80 - 120	1	20
1,2,4-Trichlorobenzene	50.0	46.6		ug/L		93	71 - 126	2	20
1,2-Dibromo-3-Chloropropane	50.0	48.4		ug/L		97	74 - 120	0	20
1,2-Dibromoethane	50.0	50.4		ug/L		101	75 - 126	4	20
1,2-Dichlorobenzene	50.0	48.6		ug/L		97	80 - 120	1	20
1,2-Dichloroethane	50.0	52.3		ug/L		105	72 - 128	1	50
1,2-Dichloropropane	50.0	51.7		ug/L		103	80 - 120	1	20
1,3-Dichlorobenzene	50.0	50.6		ug/L		101	80 - 120	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-496200/5
Matrix: Water
Analysis Batch: 496200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			50.0	48.4		ug/L		97	80 - 120	1	20
2-Butanone			250	233		ug/L		93	79 - 125	4	20
2-Hexanone			250	235		ug/L		94	80 - 131	2	20
4-Methyl-2-pentanone			250	230		ug/L		92	80 - 134	2	20
Acetone			250	239		ug/L		95	68 - 132	1	30
Benzene			50.0	52.5		ug/L		105	80 - 120	1	20
Bromodichloromethane			50.0	51.4		ug/L		103	80 - 120	3	20
Bromoform			50.0	47.1		ug/L		94	52 - 122	4	20
Bromomethane			50.0	51.6		ug/L		103	43 - 146	0	20
Carbon disulfide			50.0	52.7		ug/L		105	77 - 129	0	20
Carbon tetrachloride			50.0	46.0		ug/L		92	67 - 125	1	20
Chlorobenzene			50.0	51.3		ug/L		103	80 - 120	2	20
Chloroethane			50.0	51.2		ug/L		102	48 - 145	1	20
Chloroform			50.0	53.1		ug/L		106	80 - 120	2	20
Chloromethane			50.0	49.3		ug/L		99	76 - 149	0	30
cis-1,2-Dichloroethene			50.0	54.1		ug/L		108	80 - 120	2	20
cis-1,3-Dichloropropene			50.0	52.4		ug/L		105	80 - 129	2	20
Cyclohexane			50.0	49.1		ug/L		98	80 - 132	0	20
Dibromochloromethane			50.0	49.2		ug/L		98	68 - 120	2	20
Dichlorodifluoromethane			50.0	49.9		ug/L		100	70 - 137	5	40
Ethylbenzene			50.0	53.2		ug/L		106	80 - 120	2	20
Isopropylbenzene			50.0	53.4		ug/L		107	79 - 126	1	20
Methyl acetate			250	228		ug/L		91	73 - 139	3	20
Methyl tert-butyl ether			50.0	51.2		ug/L		102	80 - 122	0	20
Methylcyclohexane			50.0	56.1		ug/L		112	80 - 138	0	20
Methylene Chloride			50.0	52.8		ug/L		106	80 - 120	3	20
Naphthalene			50.0	45.0		ug/L		90	61 - 136	1	20
Styrene			50.0	52.9		ug/L		106	80 - 126	3	20
Tetrachloroethene			50.0	49.9		ug/L		100	71 - 123	0	20
Toluene			50.0	53.2		ug/L		106	80 - 120	2	20
trans-1,2-Dichloroethene			50.0	48.3		ug/L		97	80 - 120	1	20
trans-1,3-Dichloropropene			50.0	53.8		ug/L		108	80 - 128	4	30
Trichloroethene			50.0	52.6		ug/L		105	80 - 120	0	20
Trichlorofluoromethane			50.0	52.3		ug/L		105	58 - 127	0	20
Vinyl chloride			50.0	50.6		ug/L		101	80 - 129	2	20
Xylenes, Total			100	107		ug/L		107	80 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*73 - 131*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 122*
Toluene-d8 (Surr)	*104*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-496404/8
Matrix: Water
Analysis Batch: 496404

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/28/17 12:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/28/17 12:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/28/17 12:02	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/28/17 12:02	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/28/17 12:02	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/28/17 12:02	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/28/17 12:02	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/28/17 12:02	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/28/17 12:02	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/28/17 12:02	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/28/17 12:02	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/28/17 12:02	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/28/17 12:02	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/28/17 12:02	1
2-Butanone	10	U	10		ug/L			09/28/17 12:02	1
2-Hexanone	10	U	10		ug/L			09/28/17 12:02	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/28/17 12:02	1
Acetone	10	U	10		ug/L			09/28/17 12:02	1
Benzene	1.0	U	1.0		ug/L			09/28/17 12:02	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/28/17 12:02	1
Bromoform	1.0	U	1.0		ug/L			09/28/17 12:02	1
Bromomethane	5.0	U	5.0		ug/L			09/28/17 12:02	1
Carbon disulfide	2.0	U	2.0		ug/L			09/28/17 12:02	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/28/17 12:02	1
Chlorobenzene	1.0	U	1.0		ug/L			09/28/17 12:02	1
Chloroethane	5.0	U	5.0		ug/L			09/28/17 12:02	1
Chloroform	1.0	U	1.0		ug/L			09/28/17 12:02	1
Chloromethane	1.0	U	1.0		ug/L			09/28/17 12:02	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/28/17 12:02	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/28/17 12:02	1
Cyclohexane	1.0	U	1.0		ug/L			09/28/17 12:02	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/28/17 12:02	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/28/17 12:02	1
Ethylbenzene	1.0	U	1.0		ug/L			09/28/17 12:02	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/28/17 12:02	1
Methyl acetate	5.0	U	5.0		ug/L			09/28/17 12:02	1
Methyl tert-butyl ether	10	U	10		ug/L			09/28/17 12:02	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/28/17 12:02	1
Methylene Chloride	5.0	U	5.0		ug/L			09/28/17 12:02	1
Naphthalene	5.0	U	5.0		ug/L			09/28/17 12:02	1
Styrene	1.0	U	1.0		ug/L			09/28/17 12:02	1
Tetrachloroethene	1.0	U	1.0		ug/L			09/28/17 12:02	1
Toluene	1.0	U	1.0		ug/L			09/28/17 12:02	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/28/17 12:02	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/28/17 12:02	1
Trichloroethene	1.0	U	1.0		ug/L			09/28/17 12:02	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/28/17 12:02	1
Vinyl chloride	1.0	U	1.0		ug/L			09/28/17 12:02	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-496404/8
Matrix: Water
Analysis Batch: 496404

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.0	U	1.0		ug/L			09/28/17 12:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*		*09/28/17 12:02*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/28/17 12:02*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 122*		*09/28/17 12:02*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/28/17 12:02*	*1*

Lab Sample ID: LCS 680-496404/3
Matrix: Water
Analysis Batch: 496404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	51.4		ug/L		103	80 - 120
1,1,2,2-Tetrachloroethane	50.0	55.2		ug/L		110	76 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.5		ug/L		101	75 - 128
1,1,2-Trichloroethane	50.0	54.8		ug/L		110	80 - 120
1,1-Dichloroethane	50.0	50.1		ug/L		100	80 - 120
1,1-Dichloroethene	50.0	48.9		ug/L		98	80 - 120
1,2,4-Trichlorobenzene	50.0	53.9		ug/L		108	71 - 126
1,2-Dibromo-3-Chloropropane	50.0	57.5		ug/L		115	74 - 120
1,2-Dibromoethane	50.0	54.3		ug/L		109	75 - 126
1,2-Dichlorobenzene	50.0	54.2		ug/L		108	80 - 120
1,2-Dichloroethane	50.0	51.5		ug/L		103	72 - 128
1,2-Dichloropropane	50.0	51.8		ug/L		104	80 - 120
1,3-Dichlorobenzene	50.0	52.9		ug/L		106	80 - 120
1,4-Dichlorobenzene	50.0	53.1		ug/L		106	80 - 120
2-Butanone	250	252		ug/L		101	79 - 125
2-Hexanone	250	267		ug/L		107	80 - 131
4-Methyl-2-pentanone	250	267		ug/L		107	80 - 134
Acetone	250	267		ug/L		107	68 - 132
Benzene	50.0	50.3		ug/L		101	80 - 120
Bromodichloromethane	50.0	53.9		ug/L		108	80 - 120
Bromoform	50.0	56.1		ug/L		112	52 - 122
Bromomethane	50.0	40.4		ug/L		81	43 - 146
Carbon disulfide	50.0	50.2		ug/L		100	77 - 129
Carbon tetrachloride	50.0	52.4		ug/L		105	67 - 125
Chlorobenzene	50.0	52.0		ug/L		104	80 - 120
Chloroethane	50.0	48.0		ug/L		96	48 - 145
Chloroform	50.0	50.5		ug/L		101	80 - 120
Chloromethane	50.0	47.1		ug/L		94	76 - 149
cis-1,2-Dichloroethene	50.0	49.9		ug/L		100	80 - 120
cis-1,3-Dichloropropene	50.0	53.6		ug/L		107	80 - 129
Cyclohexane	50.0	50.3		ug/L		101	80 - 132
Dibromochloromethane	50.0	52.1		ug/L		104	68 - 120
Dichlorodifluoromethane	50.0	44.7		ug/L		89	70 - 137
Ethylbenzene	50.0	51.3		ug/L		103	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-496404/3
Matrix: Water
Analysis Batch: 496404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	51.4		ug/L		103	79 - 126
Methyl acetate	250	228		ug/L		91	73 - 139
Methyl tert-butyl ether	50.0	53.1		ug/L		106	80 - 122
Methylcyclohexane	50.0	51.8		ug/L		104	80 - 138
Methylene Chloride	50.0	50.3		ug/L		101	80 - 120
Naphthalene	50.0	57.6		ug/L		115	61 - 136
Styrene	50.0	52.7		ug/L		105	80 - 126
Tetrachloroethene	50.0	53.6		ug/L		107	71 - 123
Toluene	50.0	51.9		ug/L		104	80 - 120
trans-1,2-Dichloroethene	50.0	51.0		ug/L		102	80 - 120
trans-1,3-Dichloropropene	50.0	54.2		ug/L		108	80 - 128
Trichloroethene	50.0	51.7		ug/L		103	80 - 120
Trichlorofluoromethane	50.0	51.5		ug/L		103	58 - 127
Vinyl chloride	50.0	45.7		ug/L		91	80 - 129
Xylenes, Total	100	103		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 122*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 680-496404/4
Matrix: Water
Analysis Batch: 496404

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	54.7		ug/L		109	80 - 120	6	20
1,1,2,2-Tetrachloroethane	50.0	57.2		ug/L		114	76 - 126	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.9		ug/L		102	75 - 128	1	20
1,1,2-Trichloroethane	50.0	59.5		ug/L		119	80 - 120	8	20
1,1-Dichloroethane	50.0	53.0		ug/L		106	80 - 120	6	20
1,1-Dichloroethene	50.0	52.5		ug/L		105	80 - 120	7	20
1,2,4-Trichlorobenzene	50.0	55.8		ug/L		112	71 - 126	3	20
1,2-Dibromo-3-Chloropropane	50.0	61.7	*	ug/L		123	74 - 120	7	20
1,2-Dibromoethane	50.0	58.6		ug/L		117	75 - 126	8	20
1,2-Dichlorobenzene	50.0	57.0		ug/L		114	80 - 120	5	20
1,2-Dichloroethane	50.0	55.6		ug/L		111	72 - 128	8	50
1,2-Dichloropropane	50.0	55.1		ug/L		110	80 - 120	6	20
1,3-Dichlorobenzene	50.0	54.9		ug/L		110	80 - 120	4	20
1,4-Dichlorobenzene	50.0	55.3		ug/L		111	80 - 120	4	20
2-Butanone	250	261		ug/L		104	79 - 125	4	20
2-Hexanone	250	282		ug/L		113	80 - 131	6	20
4-Methyl-2-pentanone	250	283		ug/L		113	80 - 134	6	20
Acetone	250	284		ug/L		114	68 - 132	6	30
Benzene	50.0	53.2		ug/L		106	80 - 120	6	20
Bromodichloromethane	50.0	57.1		ug/L		114	80 - 120	6	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-496404/4
Matrix: Water
Analysis Batch: 496404

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform			50.0	59.1		ug/L		118	52 - 122	5	20
Bromomethane			50.0	40.4		ug/L		81	43 - 146	0	20
Carbon disulfide			50.0	52.2		ug/L		104	77 - 129	4	20
Carbon tetrachloride			50.0	55.2		ug/L		110	67 - 125	5	20
Chlorobenzene			50.0	54.5		ug/L		109	80 - 120	5	20
Chloroethane			50.0	52.0		ug/L		104	48 - 145	8	20
Chloroform			50.0	53.8		ug/L		108	80 - 120	6	20
Chloromethane			50.0	50.0		ug/L		100	76 - 149	6	30
cis-1,2-Dichloroethene			50.0	53.6		ug/L		107	80 - 120	7	20
cis-1,3-Dichloropropene			50.0	56.7		ug/L		113	80 - 129	6	20
Cyclohexane			50.0	52.4		ug/L		105	80 - 132	4	20
Dibromochloromethane			50.0	55.7		ug/L		111	68 - 120	7	20
Dichlorodifluoromethane			50.0	45.8		ug/L		92	70 - 137	2	40
Ethylbenzene			50.0	53.7		ug/L		107	80 - 120	5	20
Isopropylbenzene			50.0	53.9		ug/L		108	79 - 126	5	20
Methyl acetate			250	242		ug/L		97	73 - 139	6	20
Methyl tert-butyl ether			50.0	55.7		ug/L		111	80 - 122	5	20
Methylcyclohexane			50.0	54.3		ug/L		109	80 - 138	5	20
Methylene Chloride			50.0	54.0		ug/L		108	80 - 120	7	20
Naphthalene			50.0	62.5		ug/L		125	61 - 136	8	20
Styrene			50.0	55.9		ug/L		112	80 - 126	6	20
Tetrachloroethene			50.0	56.6		ug/L		113	71 - 123	5	20
Toluene			50.0	55.0		ug/L		110	80 - 120	6	20
trans-1,2-Dichloroethene			50.0	52.7		ug/L		105	80 - 120	3	20
trans-1,3-Dichloropropene			50.0	58.7		ug/L		117	80 - 128	8	30
Trichloroethene			50.0	55.1		ug/L		110	80 - 120	6	20
Trichlorofluoromethane			50.0	53.3		ug/L		107	58 - 127	3	20
Vinyl chloride			50.0	47.9		ug/L		96	80 - 129	5	20
Xylenes, Total			100	108		ug/L		108	80 - 120	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*73 - 131*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*80 - 122*
Toluene-d8 (Surr)	*107*		*80 - 120*

GC/MS VOA

Analysis Batch: 495263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-143139-12	YMW-19	Total/NA	Water	8260B	
680-143139-13	TRIP BLANK	Total/NA	Water	8260B	
680-143139-17	HMW-1	Total/NA	Water	8260B	
680-143139-20	SMW-4	Total/NA	Water	8260B	
MB 680-495263/8	Method Blank	Total/NA	Water	8260B	
LCS 680-495263/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-495263/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 495583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-143139-2	YMW-1	Total/NA	Water	8260B	
680-143139-4	YMW-5	Total/NA	Water	8260B	
680-143139-5	YMW-6	Total/NA	Water	8260B	
680-143139-6	YMW-7	Total/NA	Water	8260B	
680-143139-8	YMW-10	Total/NA	Water	8260B	
680-143139-10	YMW-13	Total/NA	Water	8260B	
680-143139-11	YMW-16	Total/NA	Water	8260B	
680-143139-15	DUP-1	Total/NA	Water	8260B	
680-143139-19	SMW-3	Total/NA	Water	8260B	
680-143139-21	SRW-1	Total/NA	Water	8260B	
MB 680-495583/9	Method Blank	Total/NA	Water	8260B	
LCS 680-495583/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-495583/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 495649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-143139-1	WMW-1	Total/NA	Water	8260B	
680-143139-3	YMW-4	Total/NA	Water	8260B	
680-143139-7	YMW-9	Total/NA	Water	8260B	
680-143139-9	YMW-11	Total/NA	Water	8260B	
680-143139-14	EQUIPMENT BLANK	Total/NA	Water	8260B	
680-143139-16	DUP-2	Total/NA	Water	8260B	
680-143139-18	SMW-1	Total/NA	Water	8260B	
680-143139-22	TRIP BLANK	Total/NA	Water	8260B	
MB 680-495649/8	Method Blank	Total/NA	Water	8260B	
LCS 680-495649/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-495649/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 496038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-143139-4 - DL	YMW-5	Total/NA	Water	8260B	
680-143139-15 - DL	DUP-1	Total/NA	Water	8260B	
MB 680-496038/10	Method Blank	Total/NA	Water	8260B	
LCS 680-496038/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-496038/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 496200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-143139-18	SMW-1	Total/NA	Water	8260B	
MB 680-496200/10	Method Blank	Total/NA	Water	8260B	
LCS 680-496200/4	Lab Control Sample	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 496200 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-496200/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 496404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-143139-16	DUP-2	Total/NA	Water	8260B	
MB 680-496404/8	Method Blank	Total/NA	Water	8260B	
LCS 680-496404/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-496404/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: WMW-1
Date Collected: 09/14/17 14:15
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	495649	09/22/17 16:03	CMB	TAL SAV

Client Sample ID: YMW-1
Date Collected: 09/14/17 10:18
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	495583	09/21/17 22:43	CMB	TAL SAV

Client Sample ID: YMW-4
Date Collected: 09/14/17 10:45
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	495649	09/22/17 16:25	CMB	TAL SAV

Client Sample ID: YMW-5
Date Collected: 09/14/17 13:31
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	495583	09/21/17 23:27	CMB	TAL SAV
Total/NA	Analysis	8260B	DL	50	496038	09/26/17 17:26	CMB	TAL SAV

Client Sample ID: YMW-6
Date Collected: 09/15/17 09:45
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	495583	09/21/17 23:49	CMB	TAL SAV

Client Sample ID: YMW-7
Date Collected: 09/15/17 12:25
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	495583	09/22/17 00:11	CMB	TAL SAV

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: YMW-9
Date Collected: 09/15/17 10:25
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	495649	09/22/17 16:48	CMB	TAL SAV

Client Sample ID: YMW-10
Date Collected: 09/15/17 11:50
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	495583	09/22/17 01:38	CMB	TAL SAV

Client Sample ID: YMW-11
Date Collected: 09/15/17 10:55
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	495649	09/22/17 17:10	CMB	TAL SAV

Client Sample ID: YMW-13
Date Collected: 09/14/17 16:21
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	495583	09/22/17 00:54	CMB	TAL SAV

Client Sample ID: YMW-16
Date Collected: 09/15/17 13:08
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	495583	09/22/17 01:59	CMB	TAL SAV

Client Sample ID: YMW-19
Date Collected: 09/13/17 16:15
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	495263	09/20/17 17:26	UI	TAL SAV

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: TRIP BLANK
Lab Sample ID: 680-143139-13
Date Collected: 09/13/17 00:00
Matrix: Water
Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	495263	09/20/17 14:20	UI	TAL SAV

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: 680-143139-14
Date Collected: 09/14/17 18:25
Matrix: Water
Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	495649	09/22/17 17:32	CMB	TAL SAV

Client Sample ID: DUP-1
Lab Sample ID: 680-143139-15
Date Collected: 09/14/17 00:00
Matrix: Water
Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	495583	09/22/17 02:21	CMB	TAL SAV
Total/NA	Analysis	8260B	DL	100	496038	09/26/17 17:01	CMB	TAL SAV

Client Sample ID: DUP-2
Lab Sample ID: 680-143139-16
Date Collected: 09/15/17 00:00
Matrix: Water
Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	496404	09/28/17 17:07	CMB	TAL SAV
Total/NA	Analysis	8260B		1	495649	09/22/17 17:54	CMB	TAL SAV

Client Sample ID: HMW-1
Lab Sample ID: 680-143139-17
Date Collected: 09/13/17 15:40
Matrix: Water
Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	495263	09/20/17 14:41	UI	TAL SAV

Client Sample ID: SMW-1
Lab Sample ID: 680-143139-18
Date Collected: 09/14/17 16:10
Matrix: Water
Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	495649	09/22/17 18:16	CMB	TAL SAV
Total/NA	Analysis	8260B		1	496200	09/27/17 12:52	CMB	TAL SAV

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Client Sample ID: SMW-3
Date Collected: 09/14/17 17:45
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	495583	09/22/17 03:27	CMB	TAL SAV

Client Sample ID: SMW-4
Date Collected: 09/13/17 17:10
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	495263	09/20/17 17:04	UI	TAL SAV

Client Sample ID: SRW-1
Date Collected: 09/14/17 18:24
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	495583	09/22/17 03:48	CMB	TAL SAV

Client Sample ID: TRIP BLANK
Date Collected: 09/15/17 00:00
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	495649	09/22/17 18:38	CMB	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Chain of Custody Record

TestAmerica Savannah
5102 LaRoche Avenue

Savannah, GA 31404-6019
phone 912.354.7858 fax 912.352.0165

TestAmerica — THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Rachel Andrews	Site Contact:	Date:	COC No:
Giant Cement	Tel/Fax: 770-973-2100 ext. 2857	Lab Contact: Jerry Lanier	Carrier:	___ of ___ COCs
654 Judge Street PO Box 218	**Analysis Turnaround Time**			Sampler:
Harleyville, SC 29448	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
803-496-2851 Phone	TAT if different from Below ____			Walk-in Client:
FAX	☐ 2 weeks			Lab Sampling:
Project Name: GCHI - SECHEM, INC.	☐ 1 week			
Site: SECHEM, INC.	☐ 2 days			Job / SDG No.:
P O # 316902	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	8260B (MOD) TCL OLM04 2+Naphthalene	8260B_SIM - 1,4-Dioxane	Sample Specific Notes:
WMW-1	9/14/17	14:15	G	Water		N		3	3	
YMW-1	9/14/17	10:18	G	Water		N	[illegible]	3	3	
YMW-2	—	—	—	Water						
YMW-4	9/14/17	10:45	G	Water		N		3	3	
YMW-5	9/14/17	13:31	G	Water		N		3	3	
YMW-6	9/15/17	9:45	G	Water		N		3	3	
YMW-7	9/15/17	12:25	G	Water		N		3	3	
YMW-8	—	—	—	Water						
YMW-9	9/15/17	10:25	G	Water		N		3	3	
YMW-10	9/15/17	11:50	G	Water		N		3	3	
YMW-11	9/15/17	10:55	G	Water		N		3	3	
YMW-13	9/14/17	16:21	G	Water		N		3	3	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								2	2	

680-143139 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

2.0(cf)2.2°C

Custody Seals Intact: ☑ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____
Relinquished by: [signature]	Company: [illegible] 14:36	Date/Time: 9/15/17	Received by: [signature]	Company: TA	Date/Time: 9/15/17 14:36
Relinquished by: [signature] 9/15/17	Company: TA	Date/Time: 16:10	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: Sav.	Date/Time: 09-16-17 0850

Form No. CA-C-WI-002, Rev. 4.13, dated 9/1/2017

TestAmerica Savannah
5102 LaRoche Avenue

Savannah, GA 31404-6019
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Rachel Andrews	Site Contact:	Date:	COC No:
Giant Cement	Tel/Fax: 770-973-2100 ext. 2857	Lab Contact: Jerry Lanier	Carrier:	____ of ____ COCs
654 Judge Street PO Box 218	Analysis Turnaround Time			Sampler:
Harleyville, SC 29448	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
803-496-2851 Phone	TAT if different from Below ____			Walk-in Client:
FAX	☐ 2 weeks			Lab Sampling:
Project Name: GCHI - SECHEM, INC.	☐ 1 week			
Site: SECHEM, INC.	☐ 2 days			Job / SDG No.:
P O # 316902	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	8260B (MOD) TCL OLM04 2-Naphthalene	8260B_SIM - 1,4-Dioxane	Sample Specific Notes:
YMW-14	—	—	—	Water						
~~YMW-15~~	—	—	—	Water						
YMW-16	9/15/17	13:08	G	Water		N	N	3	3	
YMW-17	—	—	—	Water						
YMW-18	—	—	—	Water						
YMW-19	9/13/17	16:15		Water		N	N	3	3	
TRIP BLANK	9/13/17	—	—	Water				2	2	
EQUIPMENT BLANK	9/14/17	18:25	G	Water		N	N	3	3	
DUP-1	9/14/17	—	G	Water		N	N	3	3	
DUP-2	9/15/17	—	G	Water		N	N	3	3	
				Water						
				Water						
								2	2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

2.0(c)2.2°c

Custody Seals Intact: ☐ Yes ☑ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____	Therm ID No.: ____
Relinquished by:	Company: Earthcon 1436	Date/Time: 9/15/17	Received by: TT	Company: 9/15/17 Date/Time: 1403
Relinquished by: 9/15/17	Company: JTA	Date/Time: 1610	Received by:	Company: Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: Sav. Date/Time: 09-16-17 0850

Form No. CA-C-WI-002, Rev. 4.13, dated 9/1/2017

TestAmerica Savannah
5102 LaRoche Avenue

Savannah, GA 31404-6019
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Rachel Andrews	Site Contact:	Date:	COC No:
Giant Cement	Tel/Fax: 770-973-2100 ext. 2857	Lab Contact: Jerry Lanier	Carrier:	____ of ____ COCs
654 Judge Street PO Box 218	Analysis Turnaround Time			Sampler:
Harleyville, SC 29448	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
803-496-2851 Phone	TAT if different from Below ____			Walk-in Client:
FAX	☐ 2 weeks			Lab Sampling:
Project Name: GCHI - SECHEM, INC.	☐ 1 week			
Site: SECHEM, INC.	☐ 2 days			Job / SDG No.:
P O # 316902	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	8260B (MOD) TCL OLM04.2+Naphthalene	8260B_SIM - 1,4-Dioxane	Sample Specific Notes:
~~HMW-1~~	—	—	—	Water						
HMW-1 KAH 9/13/17	9/13/17	1540	G	Water		N	N	3	3	
~~TRIP BLANK~~	—	—	—	Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other ____								2	2	

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

2.0 (cf) 2.2°c

Custody Seals Intact: ☐ Yes ☒ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____	Therm ID No.: ____
Relinquished by:	Company: EMPR Con	Date/Time: 9/15/17 1436	Received by: TA	Company: 9/15/17 Date/Time: 1436
Relinquished by: 9/15/17 TA	Company:	Date/Time: 16:10	Received by:	Company: Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: SAV Date/Time: 09/16/17 0850

Form No. CA-C-WI-002, Rev. 4.13, dated 9/1/2017

TestAmerica Savannah
5102 LaRoche Avenue

Savannah, GA 31404-6019
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Rachel Andrews	Site Contact:	Date:	COC No:
Giant Cement	Tel/Fax: 770-973-2100 ext. 2857	Lab Contact: Jerry Lanier	Carrier:	____ of ____ COCs
654 Judge Street PO Box 218	Analysis Turnaround Time			Sampler:
Harleyville, SC 29448	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
803-496-2851 Phone	TAT if different from Below ____			Walk-in Client:
FAX	☐ 2 weeks			Lab Sampling:
Project Name: GCHI - SECHEM, INC.	☐ 1 week			
Site: SECHEM, INC.	☐ 2 days			Job / SDG No.:
P O # 316902	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	8260B (MOD) TCL OLM04.2+Naphthalene	8260B_SIM - 1,4-Dioxane	Sample Specific Notes:
SMW-1	9/14/17	16:10	G	Water		N		3	3	
SMW-2	—	—	—	Water						
SMW-3	9/14/17	17:45	G	Water		N		3	3	
SMW-4	9/13/17	17:10	G	Water		N		3	3	
SRW-1	9/14/17	18:24	G	Water		N		3	3	
TRIP BLANK	9/15/17	—	—	Water				2	2	
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____								2	2	

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

2.0(c)2.2°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
		9/15/17 1436		9/15/17	1436
Relinquished by: 9/15/17	Company:	Date/Time: 1620	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 9/16-17 0850

Form No. CA-C-WI-002, Rev. 4.13, dated 9/1/2017

Login Sample Receipt Checklist

Client: Giant Cement

Job Number: 680-143139-1

Login Number: 143139
List Number: 1
Creator: Banda, Christy S

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-1

Laboratory: TestAmerica Savannah

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
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-18
Alaska	State Program	10		06-30-18
Alaska (UST)	State Program	10	UST-104	09-22-19
Arizona	State Program	9	AZ0808	12-14-18
Arkansas DEQ	State Program	6	88-0692	02-01-19
California	State Program	9	2939	06-30-18
Colorado	State Program	8	N/A	12-31-18
Connecticut	State Program	1	PH-0161	03-31-19
Florida	NELAP	4	E87052	06-30-18
GA Dept. of Agriculture	State Program	4	N/A	06-12-18
Georgia	State Program	4	803	06-30-18
Guam	State Program	9	15-005r	04-16-18
Hawaii	State Program	9	N/A	06-30-18
Illinois	NELAP	5	200022	11-30-18
Indiana	State Program	5	N/A	06-30-18
Iowa	State Program	7	353	06-30-19
Kentucky (DW)	State Program	4	90084	12-31-18
Kentucky (UST)	State Program	4	18	06-30-18
Kentucky (WW)	State Program	4	90084	12-31-18 *
L-A-B	DoD ELAP		L2463	09-22-19
L-A-B	ISO/IEC 17025		L2463.01	09-22-19
Louisiana	NELAP	6	30690	06-30-18
Louisiana (DW)	NELAP	6	LA160019	12-31-18
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-18
Massachusetts	State Program	1	M-GA006	06-30-18
Michigan	State Program	5	9925	06-30-18
Mississippi	State Program	4	N/A	06-30-18
Nebraska	State Program	7	TestAmerica-Savannah	06-30-18
New Jersey	NELAP	2	GA769	06-30-18
New Mexico	State Program	6	N/A	06-30-18
New York	NELAP	2	10842	03-31-18 *
North Carolina (DW)	State Program	4	13701	07-31-18
North Carolina (WW/SW)	State Program	4	269	12-31-18
Oklahoma	State Program	6	9984	08-31-18
Pennsylvania	NELAP	3	68-00474	06-30-18
Puerto Rico	State Program	2	GA00006	12-31-18
South Carolina	State Program	4	98001	06-30-18
Tennessee	State Program	4	TN02961	06-30-18
Texas	NELAP	6	T104704185-16-9	11-30-18
Texas	State Program	6	T104704185	06-30-18
US Fish & Wildlife	Federal		LE058448-0	07-31-18
USDA	Federal		SAV 3-04	06-14-20 *
Virginia	NELAP	3	460161	06-14-18
Washington	State Program	10	C805	06-10-18
West Virginia (DW)	State Program	3	9950C	12-31-18
West Virginia DEP	State Program	3	094	06-30-18
Wisconsin	State Program	5	999819810	08-31-18
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-143183-1
Client Project/Site: GCHI--SECHEM INC
Revision: 1

For:
Giant Cement
654 Judge Street
PO BOX 218
Harleyville, South Carolina 29448

Attn: Rachel Odzer

Authorized for release by:
2/22/2018 11:04:07 AM

Jerry Lanier, Project Manager I
(912)354-7858 e.3410
jerry.lanier@testamericainc.com

Table of Contents

Job ID: 680-143183-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Giant Cement

Project: GCHI--SECHEM INC

Report Number: 680-143183-1

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 the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 09/19/2017, 09/19/2017 and 09/19/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was0.9º C, 0.9º C, 0.9º C and 0.9º C.

The final report was revised to remove Total 1,2-DCB from the report per client request.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples SMW-2 (680-143183-1), YMW-2 (680-143184-1), YMW-14 (680-143185-1), SW-1 (680-143186-1), YMW-8 (680-143184-2), YMW-17 (680-143185-2), SW-2 (680-143186-2), YMW-18 (680-143185-3), SW-3 (680-143186-3), Trip Blank (680-143185-4), SW-4 (680-143186-4) and Trip Blank (680-143186-5) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 09/22/2017, 09/30/2017 and 10/02/2017.

The following analytes recovered outside control limits for the laboratory control sample and laboratory control sample duplicate (LCS/LCSD) associated with analytical batch 680-495583: tetrachloroethene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Refer to the QC report for details.

Samples SW-1 (680-143186-1)[10X] and SMW-2 (680-143186-1)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-495583, 680-496733, and 680-496800.

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

Sample Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-143183-1	SMW-2	Water	09/18/17 12:30	09/19/17 07:00
680-143184-1	YMW-2	Water	09/18/17 11:55	09/19/17 07:00
680-143184-2	YMW-8	Water	09/18/17 11:00	09/19/17 07:00
680-143185-1	YMW-14	Water	09/18/17 13:35	09/19/17 08:50
680-143185-2	YMW-17	Water	09/18/17 10:05	09/19/17 08:50
680-143185-3	YMW-18	Water	09/18/17 09:50	09/19/17 08:50
680-143185-4	Trip Blank	Water	09/18/17 00:00	09/19/17 08:50
680-143186-1	SW-1	Water	09/18/17 14:45	09/19/17 08:52
680-143186-2	SW-2	Water	09/18/17 14:25	09/19/17 08:52
680-143186-3	SW-3	Water	09/18/17 13:50	09/19/17 08:52
680-143186-4	SW-4	Water	09/18/17 13:25	09/19/17 08:52
680-143186-5	Trip Blank	Water	09/18/17 00:00	09/19/17 08:52

Method Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Definitions/Glossary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	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)

Detection Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: SMW-2 — Lab Sample ID: 680-143183-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloroethane	3.5		2.0		ug/L	2		8260B	Total/NA
1,1-Dichloroethane	6.6		2.0		ug/L	2		8260B	Total/NA
1,2-Dichlorobenzene	43		2.0		ug/L	2		8260B	Total/NA
1,2-Dichloroethane	40		2.0		ug/L	2		8260B	Total/NA
1,3-Dichlorobenzene	17		2.0		ug/L	2		8260B	Total/NA
1,4-Dichlorobenzene	46		2.0		ug/L	2		8260B	Total/NA
Benzene	2.6		2.0		ug/L	2		8260B	Total/NA
Chlorobenzene	220		2.0		ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	75		2.0		ug/L	2		8260B	Total/NA
Ethylbenzene	26		2.0		ug/L	2		8260B	Total/NA
Isopropylbenzene	2.7		2.0		ug/L	2		8260B	Total/NA
Tetrachloroethene	24	*	2.0		ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	6.5		2.0		ug/L	2		8260B	Total/NA
Trichloroethene	11		2.0		ug/L	2		8260B	Total/NA
Vinyl chloride	34		2.0		ug/L	2		8260B	Total/NA
Xylenes, Total	36		2.0		ug/L	2		8260B	Total/NA

Client Sample ID: YMW-2 — Lab Sample ID: 680-143184-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	9.5		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethane	3.8		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	1.9		1.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	83		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	26		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	26		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: YMW-8 — Lab Sample ID: 680-143184-2

No Detections.

Client Sample ID: YMW-14 — Lab Sample ID: 680-143185-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	20		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	87		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	8.4		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: YMW-17 — Lab Sample ID: 680-143185-2

No Detections.

Client Sample ID: YMW-18 — Lab Sample ID: 680-143185-3

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 680-143185-4

No Detections.

Client Sample ID: SW-1 — Lab Sample ID: 680-143186-1

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah

Detection Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: SW-1 (Continued) — Lab Sample ID: 680-143186-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	88		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethane	19		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	26		1.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1100		10		ug/L	10		8260B	Total/NA
Ethylbenzene	1.3		1.0		ug/L	1		8260B	Total/NA
Isopropylbenzene	2.0		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	550		10		ug/L	10		8260B	Total/NA
Toluene	74		1.0		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	15		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	620		10		ug/L	10		8260B	Total/NA
Vinyl chloride	48		1.0		ug/L	1		8260B	Total/NA
Xylenes, Total	10		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SW-2 — Lab Sample ID: 680-143186-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.3		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethane	3.3		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	7.6		1.0		ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	1.6		1.0		ug/L	1		8260B	Total/NA
1,2-Dichloroethane	7.9		1.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	58		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	13		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	24		1.0		ug/L	1		8260B	Total/NA
Vinyl chloride	3.3		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SW-3 — Lab Sample ID: 680-143186-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.6		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SW-4 — Lab Sample ID: 680-143186-4

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 680-143186-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: SMW-2
Date Collected: 09/18/17 12:30
Date Received: 09/19/17 07:00

Lab Sample ID: 680-143183-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.0	U	2.0		ug/L			09/22/17 04:10	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0		ug/L			09/22/17 04:10	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0		ug/L			09/22/17 04:10	2
1,1,2-Trichloroethane	**3.5**		2.0		ug/L			09/22/17 04:10	2
1,1-Dichloroethane	**6.6**		2.0		ug/L			09/22/17 04:10	2
1,1-Dichloroethene	2.0	U	2.0		ug/L			09/22/17 04:10	2
1,2,4-Trichlorobenzene	10	U	10		ug/L			09/22/17 04:10	2
1,2-Dibromo-3-Chloropropane	10	U	10		ug/L			09/22/17 04:10	2
1,2-Dibromoethane	2.0	U	2.0		ug/L			09/22/17 04:10	2
1,2-Dichlorobenzene	**43**		2.0		ug/L			09/22/17 04:10	2
1,2-Dichloroethane	**40**		2.0		ug/L			09/22/17 04:10	2
1,2-Dichloropropane	2.0	U	2.0		ug/L			09/22/17 04:10	2
1,3-Dichlorobenzene	**17**		2.0		ug/L			09/22/17 04:10	2
1,4-Dichlorobenzene	**46**		2.0		ug/L			09/22/17 04:10	2
2-Butanone	20	U	20		ug/L			09/22/17 04:10	2
2-Hexanone	20	U	20		ug/L			09/22/17 04:10	2
4-Methyl-2-pentanone	20	U	20		ug/L			09/22/17 04:10	2
Acetone	20	U	20		ug/L			09/22/17 04:10	2
Benzene	**2.6**		2.0		ug/L			09/22/17 04:10	2
Bromodichloromethane	2.0	U	2.0		ug/L			09/22/17 04:10	2
Bromoform	2.0	U	2.0		ug/L			09/22/17 04:10	2
Bromomethane	10	U	10		ug/L			09/22/17 04:10	2
Carbon disulfide	4.0	U	4.0		ug/L			09/22/17 04:10	2
Carbon tetrachloride	2.0	U	2.0		ug/L			09/22/17 04:10	2
Chlorobenzene	**220**		2.0		ug/L			09/22/17 04:10	2
Chloroethane	10	U	10		ug/L			09/22/17 04:10	2
Chloroform	2.0	U	2.0		ug/L			09/22/17 04:10	2
Chloromethane	2.0	U	2.0		ug/L			09/22/17 04:10	2
cis-1,2-Dichloroethene	**75**		2.0		ug/L			09/22/17 04:10	2
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			09/22/17 04:10	2
Cyclohexane	2.0	U	2.0		ug/L			09/22/17 04:10	2
Dibromochloromethane	2.0	U	2.0		ug/L			09/22/17 04:10	2
Dichlorodifluoromethane	2.0	U	2.0		ug/L			09/22/17 04:10	2
Ethylbenzene	**26**		2.0		ug/L			09/22/17 04:10	2
Isopropylbenzene	**2.7**		2.0		ug/L			09/22/17 04:10	2
Methyl acetate	10	U	10		ug/L			09/22/17 04:10	2
Methyl tert-butyl ether	20	U	20		ug/L			09/22/17 04:10	2
Methylcyclohexane	2.0	U	2.0		ug/L			09/22/17 04:10	2
Methylene Chloride	10	U	10		ug/L			09/22/17 04:10	2
Naphthalene	10	U	10		ug/L			09/22/17 04:10	2
Styrene	2.0	U	2.0		ug/L			09/22/17 04:10	2
Tetrachloroethene	**24**	*	2.0		ug/L			09/22/17 04:10	2
Toluene	2.0	U	2.0		ug/L			09/22/17 04:10	2
trans-1,2-Dichloroethene	**6.5**		2.0		ug/L			09/22/17 04:10	2
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			09/22/17 04:10	2
Trichloroethene	**11**		2.0		ug/L			09/22/17 04:10	2
Trichlorofluoromethane	2.0	U	2.0		ug/L			09/22/17 04:10	2
Vinyl chloride	**34**		2.0		ug/L			09/22/17 04:10	2
Xylenes, Total	**36**		2.0		ug/L			09/22/17 04:10	2

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: SMW-2
Date Collected: 09/18/17 12:30
Date Received: 09/19/17 07:00

Lab Sample ID: 680-143183-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		09/22/17 04:10	2
4-Bromofluorobenzene (Surr)	98		80 - 120		09/22/17 04:10	2
Dibromofluoromethane (Surr)	97		80 - 122		09/22/17 04:10	2
Toluene-d8 (Surr)	105		80 - 120		09/22/17 04:10	2

Client Sample ID: YMW-2
Date Collected: 09/18/17 11:55
Date Received: 09/19/17 07:00

Lab Sample ID: 680-143184-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**9.5**		1.0		ug/L			10/02/17 13:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			10/02/17 13:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			10/02/17 13:10	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			10/02/17 13:10	1
1,1-Dichloroethane	**3.8**		1.0		ug/L			10/02/17 13:10	1
1,1-Dichloroethene	**1.9**		1.0		ug/L			10/02/17 13:10	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			10/02/17 13:10	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			10/02/17 13:10	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			10/02/17 13:10	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 13:10	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			10/02/17 13:10	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			10/02/17 13:10	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 13:10	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 13:10	1
2-Butanone	10	U	10		ug/L			10/02/17 13:10	1
2-Hexanone	10	U	10		ug/L			10/02/17 13:10	1
4-Methyl-2-pentanone	10	U	10		ug/L			10/02/17 13:10	1
Acetone	10	U	10		ug/L			10/02/17 13:10	1
Benzene	1.0	U	1.0		ug/L			10/02/17 13:10	1
Bromodichloromethane	1.0	U	1.0		ug/L			10/02/17 13:10	1
Bromoform	1.0	U	1.0		ug/L			10/02/17 13:10	1
Bromomethane	5.0	U	5.0		ug/L			10/02/17 13:10	1
Carbon disulfide	2.0	U	2.0		ug/L			10/02/17 13:10	1
Carbon tetrachloride	1.0	U	1.0		ug/L			10/02/17 13:10	1
Chlorobenzene	1.0	U	1.0		ug/L			10/02/17 13:10	1
Chloroethane	5.0	U	5.0		ug/L			10/02/17 13:10	1
Chloroform	1.0	U	1.0		ug/L			10/02/17 13:10	1
Chloromethane	1.0	U	1.0		ug/L			10/02/17 13:10	1
cis-1,2-Dichloroethene	**83**		1.0		ug/L			10/02/17 13:10	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/02/17 13:10	1
Cyclohexane	1.0	U	1.0		ug/L			10/02/17 13:10	1
Dibromochloromethane	1.0	U	1.0		ug/L			10/02/17 13:10	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			10/02/17 13:10	1
Ethylbenzene	1.0	U	1.0		ug/L			10/02/17 13:10	1
Isopropylbenzene	1.0	U	1.0		ug/L			10/02/17 13:10	1
Methyl acetate	5.0	U	5.0		ug/L			10/02/17 13:10	1
Methyl tert-butyl ether	10	U	10		ug/L			10/02/17 13:10	1
Methylcyclohexane	1.0	U	1.0		ug/L			10/02/17 13:10	1
Methylene Chloride	5.0	U	5.0		ug/L			10/02/17 13:10	1
Naphthalene	5.0	U	5.0		ug/L			10/02/17 13:10	1
Styrene	1.0	U	1.0		ug/L			10/02/17 13:10	1
Tetrachloroethene	**26**		1.0		ug/L			10/02/17 13:10	1
Toluene	1.0	U	1.0		ug/L			10/02/17 13:10	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			10/02/17 13:10	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/02/17 13:10	1
Trichloroethene	**26**		1.0		ug/L			10/02/17 13:10	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			10/02/17 13:10	1
Vinyl chloride	1.0	U	1.0		ug/L			10/02/17 13:10	1
Xylenes, Total	1.0	U	1.0		ug/L			10/02/17 13:10	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: YMW-2
Date Collected: 09/18/17 11:55
Date Received: 09/19/17 07:00

Lab Sample ID: 680-143184-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		73 - 131		10/02/17 13:10	1
4-Bromofluorobenzene (Surr)	100		80 - 120		10/02/17 13:10	1
Dibromofluoromethane (Surr)	99		80 - 122		10/02/17 13:10	1
Toluene-d8 (Surr)	103		80 - 120		10/02/17 13:10	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: YMW-8
Date Collected: 09/18/17 11:00
Date Received: 09/19/17 07:00

Lab Sample ID: 680-143184-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/30/17 14:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/30/17 14:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/30/17 14:50	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/30/17 14:50	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/30/17 14:50	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/30/17 14:50	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/30/17 14:50	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/30/17 14:50	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/30/17 14:50	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/30/17 14:50	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/30/17 14:50	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/30/17 14:50	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/30/17 14:50	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/30/17 14:50	1
2-Butanone	10	U	10		ug/L			09/30/17 14:50	1
2-Hexanone	10	U	10		ug/L			09/30/17 14:50	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/30/17 14:50	1
Acetone	10	U	10		ug/L			09/30/17 14:50	1
Benzene	1.0	U	1.0		ug/L			09/30/17 14:50	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/30/17 14:50	1
Bromoform	1.0	U	1.0		ug/L			09/30/17 14:50	1
Bromomethane	5.0	U	5.0		ug/L			09/30/17 14:50	1
Carbon disulfide	2.0	U	2.0		ug/L			09/30/17 14:50	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/30/17 14:50	1
Chlorobenzene	1.0	U	1.0		ug/L			09/30/17 14:50	1
Chloroethane	5.0	U	5.0		ug/L			09/30/17 14:50	1
Chloroform	1.0	U	1.0		ug/L			09/30/17 14:50	1
Chloromethane	1.0	U	1.0		ug/L			09/30/17 14:50	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/30/17 14:50	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/30/17 14:50	1
Cyclohexane	1.0	U	1.0		ug/L			09/30/17 14:50	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/30/17 14:50	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/30/17 14:50	1
Ethylbenzene	1.0	U	1.0		ug/L			09/30/17 14:50	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/30/17 14:50	1
Methyl acetate	5.0	U	5.0		ug/L			09/30/17 14:50	1
Methyl tert-butyl ether	10	U	10		ug/L			09/30/17 14:50	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/30/17 14:50	1
Methylene Chloride	5.0	U	5.0		ug/L			09/30/17 14:50	1
Naphthalene	5.0	U	5.0		ug/L			09/30/17 14:50	1
Styrene	1.0	U	1.0		ug/L			09/30/17 14:50	1
Tetrachloroethene	1.0	U	1.0		ug/L			09/30/17 14:50	1
Toluene	1.0	U	1.0		ug/L			09/30/17 14:50	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/30/17 14:50	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/30/17 14:50	1
Trichloroethene	1.0	U	1.0		ug/L			09/30/17 14:50	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/30/17 14:50	1
Vinyl chloride	1.0	U	1.0		ug/L			09/30/17 14:50	1
Xylenes, Total	1.0	U	1.0		ug/L			09/30/17 14:50	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: YMW-8
Date Collected: 09/18/17 11:00
Date Received: 09/19/17 07:00

Lab Sample ID: 680-143184-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		73 - 131		09/30/17 14:50	1
4-Bromofluorobenzene (Surr)	99		80 - 120		09/30/17 14:50	1
Dibromofluoromethane (Surr)	97		80 - 122		09/30/17 14:50	1
Toluene-d8 (Surr)	99		80 - 120		09/30/17 14:50	1

Client Sample ID: YMW-14

Date Collected: 09/18/17 13:35
Date Received: 09/19/17 08:50

Lab Sample ID: 680-143185-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			10/02/17 13:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			10/02/17 13:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			10/02/17 13:34	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			10/02/17 13:34	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			10/02/17 13:34	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			10/02/17 13:34	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			10/02/17 13:34	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			10/02/17 13:34	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			10/02/17 13:34	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 13:34	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			10/02/17 13:34	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			10/02/17 13:34	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 13:34	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 13:34	1
2-Butanone	10	U	10		ug/L			10/02/17 13:34	1
2-Hexanone	10	U	10		ug/L			10/02/17 13:34	1
4-Methyl-2-pentanone	10	U	10		ug/L			10/02/17 13:34	1
Acetone	10	U	10		ug/L			10/02/17 13:34	1
Benzene	1.0	U	1.0		ug/L			10/02/17 13:34	1
Bromodichloromethane	1.0	U	1.0		ug/L			10/02/17 13:34	1
Bromoform	1.0	U	1.0		ug/L			10/02/17 13:34	1
Bromomethane	5.0	U	5.0		ug/L			10/02/17 13:34	1
Carbon disulfide	2.0	U	2.0		ug/L			10/02/17 13:34	1
Carbon tetrachloride	1.0	U	1.0		ug/L			10/02/17 13:34	1
Chlorobenzene	1.0	U	1.0		ug/L			10/02/17 13:34	1
Chloroethane	5.0	U	5.0		ug/L			10/02/17 13:34	1
Chloroform	1.0	U	1.0		ug/L			10/02/17 13:34	1
Chloromethane	1.0	U	1.0		ug/L			10/02/17 13:34	1
cis-1,2-Dichloroethene	**20**		1.0		ug/L			10/02/17 13:34	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/02/17 13:34	1
Cyclohexane	1.0	U	1.0		ug/L			10/02/17 13:34	1
Dibromochloromethane	1.0	U	1.0		ug/L			10/02/17 13:34	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			10/02/17 13:34	1
Ethylbenzene	1.0	U	1.0		ug/L			10/02/17 13:34	1
Isopropylbenzene	1.0	U	1.0		ug/L			10/02/17 13:34	1
Methyl acetate	5.0	U	5.0		ug/L			10/02/17 13:34	1
Methyl tert-butyl ether	10	U	10		ug/L			10/02/17 13:34	1
Methylcyclohexane	1.0	U	1.0		ug/L			10/02/17 13:34	1
Methylene Chloride	5.0	U	5.0		ug/L			10/02/17 13:34	1
Naphthalene	5.0	U	5.0		ug/L			10/02/17 13:34	1
Styrene	1.0	U	1.0		ug/L			10/02/17 13:34	1
Tetrachloroethene	**87**		1.0		ug/L			10/02/17 13:34	1
Toluene	1.0	U	1.0		ug/L			10/02/17 13:34	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			10/02/17 13:34	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/02/17 13:34	1
Trichloroethene	**8.4**		1.0		ug/L			10/02/17 13:34	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			10/02/17 13:34	1
Vinyl chloride	1.0	U	1.0		ug/L			10/02/17 13:34	1
Xylenes, Total	1.0	U	1.0		ug/L			10/02/17 13:34	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: YMW-14
Date Collected: 09/18/17 13:35
Date Received: 09/19/17 08:50

Lab Sample ID: 680-143185-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		10/02/17 13:34	1
4-Bromofluorobenzene (Surr)	101		80 - 120		10/02/17 13:34	1
Dibromofluoromethane (Surr)	99		80 - 122		10/02/17 13:34	1
Toluene-d8 (Surr)	102		80 - 120		10/02/17 13:34	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: YMW-17
Date Collected: 09/18/17 10:05
Date Received: 09/19/17 08:50

Lab Sample ID: 680-143185-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/30/17 16:04	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/30/17 16:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/30/17 16:04	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/30/17 16:04	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/30/17 16:04	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/30/17 16:04	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/30/17 16:04	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/30/17 16:04	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/30/17 16:04	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/30/17 16:04	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/30/17 16:04	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/30/17 16:04	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/30/17 16:04	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/30/17 16:04	1
2-Butanone	10	U	10		ug/L			09/30/17 16:04	1
2-Hexanone	10	U	10		ug/L			09/30/17 16:04	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/30/17 16:04	1
Acetone	10	U	10		ug/L			09/30/17 16:04	1
Benzene	1.0	U	1.0		ug/L			09/30/17 16:04	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/30/17 16:04	1
Bromoform	1.0	U	1.0		ug/L			09/30/17 16:04	1
Bromomethane	5.0	U	5.0		ug/L			09/30/17 16:04	1
Carbon disulfide	2.0	U	2.0		ug/L			09/30/17 16:04	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/30/17 16:04	1
Chlorobenzene	1.0	U	1.0		ug/L			09/30/17 16:04	1
Chloroethane	5.0	U	5.0		ug/L			09/30/17 16:04	1
Chloroform	1.0	U	1.0		ug/L			09/30/17 16:04	1
Chloromethane	1.0	U	1.0		ug/L			09/30/17 16:04	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/30/17 16:04	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/30/17 16:04	1
Cyclohexane	1.0	U	1.0		ug/L			09/30/17 16:04	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/30/17 16:04	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/30/17 16:04	1
Ethylbenzene	1.0	U	1.0		ug/L			09/30/17 16:04	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/30/17 16:04	1
Methyl acetate	5.0	U	5.0		ug/L			09/30/17 16:04	1
Methyl tert-butyl ether	10	U	10		ug/L			09/30/17 16:04	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/30/17 16:04	1
Methylene Chloride	5.0	U	5.0		ug/L			09/30/17 16:04	1
Naphthalene	5.0	U	5.0		ug/L			09/30/17 16:04	1
Styrene	1.0	U	1.0		ug/L			09/30/17 16:04	1
Tetrachloroethene	1.0	U	1.0		ug/L			09/30/17 16:04	1
Toluene	1.0	U	1.0		ug/L			09/30/17 16:04	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/30/17 16:04	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/30/17 16:04	1
Trichloroethene	1.0	U	1.0		ug/L			09/30/17 16:04	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/30/17 16:04	1
Vinyl chloride	1.0	U	1.0		ug/L			09/30/17 16:04	1
Xylenes, Total	1.0	U	1.0		ug/L			09/30/17 16:04	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: YMW-17
Date Collected: 09/18/17 10:05
Date Received: 09/19/17 08:50

Lab Sample ID: 680-143185-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		73 - 131		09/30/17 16:04	1
4-Bromofluorobenzene (Surr)	96		80 - 120		09/30/17 16:04	1
Dibromofluoromethane (Surr)	95		80 - 122		09/30/17 16:04	1
Toluene-d8 (Surr)	98		80 - 120		09/30/17 16:04	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: YMW-18
Date Collected: 09/18/17 09:50
Date Received: 09/19/17 08:50

Lab Sample ID: 680-143185-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/30/17 15:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/30/17 15:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/30/17 15:39	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/30/17 15:39	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/30/17 15:39	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/30/17 15:39	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/30/17 15:39	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/30/17 15:39	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/30/17 15:39	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/30/17 15:39	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/30/17 15:39	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/30/17 15:39	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/30/17 15:39	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/30/17 15:39	1
2-Butanone	10	U	10		ug/L			09/30/17 15:39	1
2-Hexanone	10	U	10		ug/L			09/30/17 15:39	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/30/17 15:39	1
Acetone	10	U	10		ug/L			09/30/17 15:39	1
Benzene	1.0	U	1.0		ug/L			09/30/17 15:39	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/30/17 15:39	1
Bromoform	1.0	U	1.0		ug/L			09/30/17 15:39	1
Bromomethane	5.0	U	5.0		ug/L			09/30/17 15:39	1
Carbon disulfide	2.0	U	2.0		ug/L			09/30/17 15:39	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/30/17 15:39	1
Chlorobenzene	1.0	U	1.0		ug/L			09/30/17 15:39	1
Chloroethane	5.0	U	5.0		ug/L			09/30/17 15:39	1
Chloroform	1.0	U	1.0		ug/L			09/30/17 15:39	1
Chloromethane	1.0	U	1.0		ug/L			09/30/17 15:39	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/30/17 15:39	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/30/17 15:39	1
Cyclohexane	1.0	U	1.0		ug/L			09/30/17 15:39	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/30/17 15:39	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/30/17 15:39	1
Ethylbenzene	1.0	U	1.0		ug/L			09/30/17 15:39	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/30/17 15:39	1
Methyl acetate	5.0	U	5.0		ug/L			09/30/17 15:39	1
Methyl tert-butyl ether	10	U	10		ug/L			09/30/17 15:39	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/30/17 15:39	1
Methylene Chloride	5.0	U	5.0		ug/L			09/30/17 15:39	1
Naphthalene	5.0	U	5.0		ug/L			09/30/17 15:39	1
Styrene	1.0	U	1.0		ug/L			09/30/17 15:39	1
Tetrachloroethene	1.0	U	1.0		ug/L			09/30/17 15:39	1
Toluene	1.0	U	1.0		ug/L			09/30/17 15:39	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/30/17 15:39	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/30/17 15:39	1
Trichloroethene	1.0	U	1.0		ug/L			09/30/17 15:39	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/30/17 15:39	1
Vinyl chloride	1.0	U	1.0		ug/L			09/30/17 15:39	1
Xylenes, Total	1.0	U	1.0		ug/L			09/30/17 15:39	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: YMW-18
Date Collected: 09/18/17 09:50
Date Received: 09/19/17 08:50

Lab Sample ID: 680-143185-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		73 - 131		09/30/17 15:39	1
4-Bromofluorobenzene (Surr)	97		80 - 120		09/30/17 15:39	1
Dibromofluoromethane (Surr)	97		80 - 122		09/30/17 15:39	1
Toluene-d8 (Surr)	98		80 - 120		09/30/17 15:39	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: Trip Blank
Date Collected: 09/18/17 00:00
Date Received: 09/19/17 08:50

Lab Sample ID: 680-143185-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/30/17 15:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/30/17 15:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/30/17 15:15	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/30/17 15:15	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/30/17 15:15	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/30/17 15:15	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/30/17 15:15	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/30/17 15:15	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/30/17 15:15	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/30/17 15:15	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/30/17 15:15	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/30/17 15:15	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/30/17 15:15	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/30/17 15:15	1
2-Butanone	10	U	10		ug/L			09/30/17 15:15	1
2-Hexanone	10	U	10		ug/L			09/30/17 15:15	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/30/17 15:15	1
Acetone	10	U	10		ug/L			09/30/17 15:15	1
Benzene	1.0	U	1.0		ug/L			09/30/17 15:15	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/30/17 15:15	1
Bromoform	1.0	U	1.0		ug/L			09/30/17 15:15	1
Bromomethane	5.0	U	5.0		ug/L			09/30/17 15:15	1
Carbon disulfide	2.0	U	2.0		ug/L			09/30/17 15:15	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/30/17 15:15	1
Chlorobenzene	1.0	U	1.0		ug/L			09/30/17 15:15	1
Chloroethane	5.0	U	5.0		ug/L			09/30/17 15:15	1
Chloroform	1.0	U	1.0		ug/L			09/30/17 15:15	1
Chloromethane	1.0	U	1.0		ug/L			09/30/17 15:15	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/30/17 15:15	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/30/17 15:15	1
Cyclohexane	1.0	U	1.0		ug/L			09/30/17 15:15	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/30/17 15:15	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/30/17 15:15	1
Ethylbenzene	1.0	U	1.0		ug/L			09/30/17 15:15	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/30/17 15:15	1
Methyl acetate	5.0	U	5.0		ug/L			09/30/17 15:15	1
Methyl tert-butyl ether	10	U	10		ug/L			09/30/17 15:15	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/30/17 15:15	1
Methylene Chloride	5.0	U	5.0		ug/L			09/30/17 15:15	1
Naphthalene	5.0	U	5.0		ug/L			09/30/17 15:15	1
Styrene	1.0	U	1.0		ug/L			09/30/17 15:15	1
Tetrachloroethene	1.0	U	1.0		ug/L			09/30/17 15:15	1
Toluene	1.0	U	1.0		ug/L			09/30/17 15:15	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/30/17 15:15	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/30/17 15:15	1
Trichloroethene	1.0	U	1.0		ug/L			09/30/17 15:15	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/30/17 15:15	1
Vinyl chloride	1.0	U	1.0		ug/L			09/30/17 15:15	1
Xylenes, Total	1.0	U	1.0		ug/L			09/30/17 15:15	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: Trip Blank
Date Collected: 09/18/17 00:00
Date Received: 09/19/17 08:50

Lab Sample ID: 680-143185-4
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		73 - 131		09/30/17 15:15	1
4-Bromofluorobenzene (Surr)	97		80 - 120		09/30/17 15:15	1
Dibromofluoromethane (Surr)	95		80 - 122		09/30/17 15:15	1
Toluene-d8 (Surr)	98		80 - 120		09/30/17 15:15	1

Client Sample ID: SW-1
Date Collected: 09/18/17 14:45
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**88**		1.0		ug/L			10/02/17 13:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			10/02/17 13:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			10/02/17 13:59	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			10/02/17 13:59	1
1,1-Dichloroethane	**19**		1.0		ug/L			10/02/17 13:59	1
1,1-Dichloroethene	**26**		1.0		ug/L			10/02/17 13:59	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			10/02/17 13:59	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			10/02/17 13:59	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			10/02/17 13:59	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 13:59	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			10/02/17 13:59	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			10/02/17 13:59	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 13:59	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 13:59	1
2-Butanone	10	U	10		ug/L			10/02/17 13:59	1
2-Hexanone	10	U	10		ug/L			10/02/17 13:59	1
4-Methyl-2-pentanone	10	U	10		ug/L			10/02/17 13:59	1
Acetone	10	U	10		ug/L			10/02/17 13:59	1
Benzene	1.0	U	1.0		ug/L			10/02/17 13:59	1
Bromodichloromethane	1.0	U	1.0		ug/L			10/02/17 13:59	1
Bromoform	1.0	U	1.0		ug/L			10/02/17 13:59	1
Bromomethane	5.0	U	5.0		ug/L			10/02/17 13:59	1
Carbon disulfide	2.0	U	2.0		ug/L			10/02/17 13:59	1
Carbon tetrachloride	1.0	U	1.0		ug/L			10/02/17 13:59	1
Chlorobenzene	1.0	U	1.0		ug/L			10/02/17 13:59	1
Chloroethane	5.0	U	5.0		ug/L			10/02/17 13:59	1
Chloroform	1.0	U	1.0		ug/L			10/02/17 13:59	1
Chloromethane	1.0	U	1.0		ug/L			10/02/17 13:59	1
cis-1,2-Dichloroethene	**1100**		10		ug/L			10/02/17 16:52	10
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/02/17 13:59	1
Cyclohexane	1.0	U	1.0		ug/L			10/02/17 13:59	1
Dibromochloromethane	1.0	U	1.0		ug/L			10/02/17 13:59	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			10/02/17 13:59	1
Ethylbenzene	**1.3**		1.0		ug/L			10/02/17 13:59	1
Isopropylbenzene	**2.0**		1.0		ug/L			10/02/17 13:59	1
Methyl acetate	5.0	U	5.0		ug/L			10/02/17 13:59	1
Methyl tert-butyl ether	10	U	10		ug/L			10/02/17 13:59	1
Methylcyclohexane	1.0	U	1.0		ug/L			10/02/17 13:59	1
Methylene Chloride	5.0	U	5.0		ug/L			10/02/17 13:59	1
Naphthalene	5.0	U	5.0		ug/L			10/02/17 13:59	1
Styrene	1.0	U	1.0		ug/L			10/02/17 13:59	1
Tetrachloroethene	**550**		10		ug/L			10/02/17 16:52	10
Toluene	**74**		1.0		ug/L			10/02/17 13:59	1
trans-1,2-Dichloroethene	**15**		1.0		ug/L			10/02/17 13:59	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/02/17 13:59	1
Trichloroethene	**620**		10		ug/L			10/02/17 16:52	10
Trichlorofluoromethane	1.0	U	1.0		ug/L			10/02/17 13:59	1
Vinyl chloride	**48**		1.0		ug/L			10/02/17 13:59	1
Xylenes, Total	**10**		1.0		ug/L			10/02/17 13:59	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: SW-1
Date Collected: 09/18/17 14:45
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		73 - 131		10/02/17 13:59	1
1,2-Dichloroethane-d4 (Surr)	107		73 - 131		10/02/17 16:52	10
4-Bromofluorobenzene (Surr)	102		80 - 120		10/02/17 13:59	1
4-Bromofluorobenzene (Surr)	97		80 - 120		10/02/17 16:52	10
Dibromofluoromethane (Surr)	103		80 - 122		10/02/17 13:59	1
Dibromofluoromethane (Surr)	107		80 - 122		10/02/17 16:52	10
Toluene-d8 (Surr)	102		80 - 120		10/02/17 13:59	1
Toluene-d8 (Surr)	104		80 - 120		10/02/17 16:52	10

Client Sample ID: SW-2

Date Collected: 09/18/17 14:25
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**1.3**		1.0		ug/L			10/02/17 17:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			10/02/17 17:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			10/02/17 17:16	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			10/02/17 17:16	1
1,1-Dichloroethane	**3.3**		1.0		ug/L			10/02/17 17:16	1
1,1-Dichloroethene	**7.6**		1.0		ug/L			10/02/17 17:16	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			10/02/17 17:16	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			10/02/17 17:16	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			10/02/17 17:16	1
1,2-Dichlorobenzene	**1.6**		1.0		ug/L			10/02/17 17:16	1
1,2-Dichloroethane	**7.9**		1.0		ug/L			10/02/17 17:16	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			10/02/17 17:16	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 17:16	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 17:16	1
2-Butanone	10	U	10		ug/L			10/02/17 17:16	1
2-Hexanone	10	U	10		ug/L			10/02/17 17:16	1
4-Methyl-2-pentanone	10	U	10		ug/L			10/02/17 17:16	1
Acetone	10	U	10		ug/L			10/02/17 17:16	1
Benzene	1.0	U	1.0		ug/L			10/02/17 17:16	1
Bromodichloromethane	1.0	U	1.0		ug/L			10/02/17 17:16	1
Bromoform	1.0	U	1.0		ug/L			10/02/17 17:16	1
Bromomethane	5.0	U	5.0		ug/L			10/02/17 17:16	1
Carbon disulfide	2.0	U	2.0		ug/L			10/02/17 17:16	1
Carbon tetrachloride	1.0	U	1.0		ug/L			10/02/17 17:16	1
Chlorobenzene	1.0	U	1.0		ug/L			10/02/17 17:16	1
Chloroethane	5.0	U	5.0		ug/L			10/02/17 17:16	1
Chloroform	1.0	U	1.0		ug/L			10/02/17 17:16	1
Chloromethane	1.0	U	1.0		ug/L			10/02/17 17:16	1
cis-1,2-Dichloroethene	**58**		1.0		ug/L			10/02/17 17:16	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/02/17 17:16	1
Cyclohexane	1.0	U	1.0		ug/L			10/02/17 17:16	1
Dibromochloromethane	1.0	U	1.0		ug/L			10/02/17 17:16	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			10/02/17 17:16	1
Ethylbenzene	1.0	U	1.0		ug/L			10/02/17 17:16	1
Isopropylbenzene	1.0	U	1.0		ug/L			10/02/17 17:16	1
Methyl acetate	5.0	U	5.0		ug/L			10/02/17 17:16	1
Methyl tert-butyl ether	10	U	10		ug/L			10/02/17 17:16	1
Methylcyclohexane	1.0	U	1.0		ug/L			10/02/17 17:16	1
Methylene Chloride	5.0	U	5.0		ug/L			10/02/17 17:16	1
Naphthalene	5.0	U	5.0		ug/L			10/02/17 17:16	1
Styrene	1.0	U	1.0		ug/L			10/02/17 17:16	1
Tetrachloroethene	**13**		1.0		ug/L			10/02/17 17:16	1
Toluene	1.0	U	1.0		ug/L			10/02/17 17:16	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			10/02/17 17:16	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/02/17 17:16	1
Trichloroethene	**24**		1.0		ug/L			10/02/17 17:16	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			10/02/17 17:16	1
Vinyl chloride	**3.3**		1.0		ug/L			10/02/17 17:16	1
Xylenes, Total	1.0	U	1.0		ug/L			10/02/17 17:16	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: SW-2
Date Collected: 09/18/17 14:25
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		73 - 131		10/02/17 17:16	1
4-Bromofluorobenzene (Surr)	101		80 - 120		10/02/17 17:16	1
Dibromofluoromethane (Surr)	100		80 - 122		10/02/17 17:16	1
Toluene-d8 (Surr)	104		80 - 120		10/02/17 17:16	1

Client Sample ID: SW-3
Date Collected: 09/18/17 13:50
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			10/02/17 21:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			10/02/17 21:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			10/02/17 21:56	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			10/02/17 21:56	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			10/02/17 21:56	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			10/02/17 21:56	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			10/02/17 21:56	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			10/02/17 21:56	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			10/02/17 21:56	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 21:56	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			10/02/17 21:56	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			10/02/17 21:56	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 21:56	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 21:56	1
2-Butanone	10	U	10		ug/L			10/02/17 21:56	1
2-Hexanone	10	U	10		ug/L			10/02/17 21:56	1
4-Methyl-2-pentanone	10	U	10		ug/L			10/02/17 21:56	1
Acetone	10	U	10		ug/L			10/02/17 21:56	1
Benzene	1.0	U	1.0		ug/L			10/02/17 21:56	1
Bromodichloromethane	1.0	U	1.0		ug/L			10/02/17 21:56	1
Bromoform	1.0	U	1.0		ug/L			10/02/17 21:56	1
Bromomethane	5.0	U	5.0		ug/L			10/02/17 21:56	1
Carbon disulfide	2.0	U	2.0		ug/L			10/02/17 21:56	1
Carbon tetrachloride	1.0	U	1.0		ug/L			10/02/17 21:56	1
Chlorobenzene	1.0	U	1.0		ug/L			10/02/17 21:56	1
Chloroethane	5.0	U	5.0		ug/L			10/02/17 21:56	1
Chloroform	1.0	U	1.0		ug/L			10/02/17 21:56	1
Chloromethane	1.0	U	1.0		ug/L			10/02/17 21:56	1
cis-1,2-Dichloroethene	**1.6**		1.0		ug/L			10/02/17 21:56	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/02/17 21:56	1
Cyclohexane	1.0	U	1.0		ug/L			10/02/17 21:56	1
Dibromochloromethane	1.0	U	1.0		ug/L			10/02/17 21:56	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			10/02/17 21:56	1
Ethylbenzene	1.0	U	1.0		ug/L			10/02/17 21:56	1
Isopropylbenzene	1.0	U	1.0		ug/L			10/02/17 21:56	1
Methyl acetate	5.0	U	5.0		ug/L			10/02/17 21:56	1
Methyl tert-butyl ether	10	U	10		ug/L			10/02/17 21:56	1
Methylcyclohexane	1.0	U	1.0		ug/L			10/02/17 21:56	1
Methylene Chloride	5.0	U	5.0		ug/L			10/02/17 21:56	1
Naphthalene	5.0	U	5.0		ug/L			10/02/17 21:56	1
Styrene	1.0	U	1.0		ug/L			10/02/17 21:56	1
Tetrachloroethene	1.0	U	1.0		ug/L			10/02/17 21:56	1
Toluene	1.0	U	1.0		ug/L			10/02/17 21:56	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			10/02/17 21:56	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/02/17 21:56	1
Trichloroethene	1.0	U	1.0		ug/L			10/02/17 21:56	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			10/02/17 21:56	1
Vinyl chloride	1.0	U	1.0		ug/L			10/02/17 21:56	1
Xylenes, Total	1.0	U	1.0		ug/L			10/02/17 21:56	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: SW-3
Date Collected: 09/18/17 13:50
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		73 - 131		10/02/17 14:48	1
1,2-Dichloroethane-d4 (Surr)	88		73 - 131		10/02/17 21:56	1
4-Bromofluorobenzene (Surr)	100		80 - 120		10/02/17 14:48	1
4-Bromofluorobenzene (Surr)	100		80 - 120		10/02/17 21:56	1
Dibromofluoromethane (Surr)	99		80 - 122		10/02/17 14:48	1
Dibromofluoromethane (Surr)	100		80 - 122		10/02/17 21:56	1
Toluene-d8 (Surr)	102		80 - 120		10/02/17 14:48	1
Toluene-d8 (Surr)	102		80 - 120		10/02/17 21:56	1

Client Sample ID: SW-4
Date Collected: 09/18/17 13:25
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			10/02/17 15:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			10/02/17 15:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			10/02/17 15:13	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			10/02/17 15:13	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			10/02/17 15:13	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			10/02/17 15:13	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			10/02/17 15:13	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			10/02/17 15:13	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			10/02/17 15:13	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 15:13	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			10/02/17 15:13	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			10/02/17 15:13	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 15:13	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 15:13	1
2-Butanone	10	U	10		ug/L			10/02/17 15:13	1
2-Hexanone	10	U	10		ug/L			10/02/17 15:13	1
4-Methyl-2-pentanone	10	U	10		ug/L			10/02/17 15:13	1
Acetone	10	U	10		ug/L			10/02/17 15:13	1
Benzene	1.0	U	1.0		ug/L			10/02/17 15:13	1
Bromodichloromethane	1.0	U	1.0		ug/L			10/02/17 15:13	1
Bromoform	1.0	U	1.0		ug/L			10/02/17 15:13	1
Bromomethane	5.0	U	5.0		ug/L			10/02/17 15:13	1
Carbon disulfide	2.0	U	2.0		ug/L			10/02/17 15:13	1
Carbon tetrachloride	1.0	U	1.0		ug/L			10/02/17 15:13	1
Chlorobenzene	1.0	U	1.0		ug/L			10/02/17 15:13	1
Chloroethane	5.0	U	5.0		ug/L			10/02/17 15:13	1
Chloroform	1.0	U	1.0		ug/L			10/02/17 15:13	1
Chloromethane	1.0	U	1.0		ug/L			10/02/17 15:13	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			10/02/17 15:13	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/02/17 15:13	1
Cyclohexane	1.0	U	1.0		ug/L			10/02/17 15:13	1
Dibromochloromethane	1.0	U	1.0		ug/L			10/02/17 15:13	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			10/02/17 15:13	1
Ethylbenzene	1.0	U	1.0		ug/L			10/02/17 15:13	1
Isopropylbenzene	1.0	U	1.0		ug/L			10/02/17 15:13	1
Methyl acetate	5.0	U	5.0		ug/L			10/02/17 15:13	1
Methyl tert-butyl ether	10	U	10		ug/L			10/02/17 15:13	1
Methylcyclohexane	1.0	U	1.0		ug/L			10/02/17 15:13	1
Methylene Chloride	5.0	U	5.0		ug/L			10/02/17 15:13	1
Naphthalene	5.0	U	5.0		ug/L			10/02/17 15:13	1
Styrene	1.0	U	1.0		ug/L			10/02/17 15:13	1
Tetrachloroethene	1.0	U	1.0		ug/L			10/02/17 15:13	1
Toluene	1.0	U	1.0		ug/L			10/02/17 15:13	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			10/02/17 15:13	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/02/17 15:13	1
Trichloroethene	1.0	U	1.0		ug/L			10/02/17 15:13	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			10/02/17 15:13	1
Vinyl chloride	1.0	U	1.0		ug/L			10/02/17 15:13	1
Xylenes, Total	1.0	U	1.0		ug/L			10/02/17 15:13	1

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: SW-4
Date Collected: 09/18/17 13:25
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-4
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		73 - 131		10/02/17 15:13	1
4-Bromofluorobenzene (Surr)	101		80 - 120		10/02/17 15:13	1
Dibromofluoromethane (Surr)	98		80 - 122		10/02/17 15:13	1
Toluene-d8 (Surr)	102		80 - 120		10/02/17 15:13	1

Client Sample ID: Trip Blank
Date Collected: 09/18/17 00:00
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			10/02/17 15:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			10/02/17 15:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			10/02/17 15:38	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			10/02/17 15:38	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			10/02/17 15:38	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			10/02/17 15:38	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			10/02/17 15:38	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			10/02/17 15:38	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			10/02/17 15:38	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 15:38	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			10/02/17 15:38	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			10/02/17 15:38	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 15:38	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 15:38	1
2-Butanone	10	U	10		ug/L			10/02/17 15:38	1
2-Hexanone	10	U	10		ug/L			10/02/17 15:38	1
4-Methyl-2-pentanone	10	U	10		ug/L			10/02/17 15:38	1
Acetone	10	U	10		ug/L			10/02/17 15:38	1
Benzene	1.0	U	1.0		ug/L			10/02/17 15:38	1
Bromodichloromethane	1.0	U	1.0		ug/L			10/02/17 15:38	1
Bromoform	1.0	U	1.0		ug/L			10/02/17 15:38	1
Bromomethane	5.0	U	5.0		ug/L			10/02/17 15:38	1
Carbon disulfide	2.0	U	2.0		ug/L			10/02/17 15:38	1
Carbon tetrachloride	1.0	U	1.0		ug/L			10/02/17 15:38	1
Chlorobenzene	1.0	U	1.0		ug/L			10/02/17 15:38	1
Chloroethane	5.0	U	5.0		ug/L			10/02/17 15:38	1
Chloroform	1.0	U	1.0		ug/L			10/02/17 15:38	1
Chloromethane	1.0	U	1.0		ug/L			10/02/17 15:38	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			10/02/17 15:38	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/02/17 15:38	1
Cyclohexane	1.0	U	1.0		ug/L			10/02/17 15:38	1
Dibromochloromethane	1.0	U	1.0		ug/L			10/02/17 15:38	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			10/02/17 15:38	1
Ethylbenzene	1.0	U	1.0		ug/L			10/02/17 15:38	1
Isopropylbenzene	1.0	U	1.0		ug/L			10/02/17 15:38	1
Methyl acetate	5.0	U	5.0		ug/L			10/02/17 15:38	1
Methyl tert-butyl ether	10	U	10		ug/L			10/02/17 15:38	1
Methylcyclohexane	1.0	U	1.0		ug/L			10/02/17 15:38	1
Methylene Chloride	5.0	U	5.0		ug/L			10/02/17 15:38	1
Naphthalene	5.0	U	5.0		ug/L			10/02/17 15:38	1
Styrene	1.0	U	1.0		ug/L			10/02/17 15:38	1
Tetrachloroethene	1.0	U	1.0		ug/L			10/02/17 15:38	1
Toluene	1.0	U	1.0		ug/L			10/02/17 15:38	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			10/02/17 15:38	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/02/17 15:38	1
Trichloroethene	1.0	U	1.0		ug/L			10/02/17 15:38	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			10/02/17 15:38	1
Vinyl chloride	1.0	U	1.0		ug/L			10/02/17 15:38	1
Xylenes, Total	1.0	U	1.0		ug/L			10/02/17 15:38	1

Client Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: Trip Blank
Date Collected: 09/18/17 00:00
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		73 - 131		10/02/17 15:38	1
4-Bromofluorobenzene (Surr)	100		80 - 120		10/02/17 15:38	1
Dibromofluoromethane (Surr)	99		80 - 122		10/02/17 15:38	1
Toluene-d8 (Surr)	104		80 - 120		10/02/17 15:38	1

Surrogate Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(73-131)	(80-120)	(80-122)	(80-120)
680-143183-1	SMW-2	94	98	97	105
680-143184-1	YMW-2	90	100	99	103
680-143184-2	YMW-8	88	99	97	99
680-143185-1	YMW-14	92	101	99	102
680-143185-2	YMW-17	88	96	95	98
680-143185-3	YMW-18	89	97	97	98
680-143185-4	Trip Blank	88	97	95	98
680-143186-1	SW-1	96	102	103	102
680-143186-1	SW-1	107	97	107	104
680-143186-2	SW-2	91	101	100	104
680-143186-3	SW-3	90	100	99	102
680-143186-3	SW-3	88	100	100	102
680-143186-4	SW-4	90	101	98	102
680-143186-5	Trip Blank	93	100	99	104
LCS 680-495583/4	Lab Control Sample	91	97	97	108
LCS 680-496733/4	Lab Control Sample	91	91	98	99
LCS 680-496800/4	Lab Control Sample	99	96	105	107
LCS 680-496939/4	Lab Control Sample	89	89	94	100
LCSD 680-495583/5	Lab Control Sample Dup	89	99	96	108
LCSD 680-496733/6	Lab Control Sample Dup	97	93	104	104
LCSD 680-496800/5	Lab Control Sample Dup	97	94	104	106
LCSD 680-496939/5	Lab Control Sample Dup	90	92	97	100
MB 680-495583/9	Method Blank	88	103	94	99
MB 680-496733/9	Method Blank	90	98	96	99
MB 680-496800/10	Method Blank	93	101	100	103
MB 680-496939/9	Method Blank	90	100	97	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-495583/9
Matrix: Water
Analysis Batch: 495583

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/21/17 21:16	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/21/17 21:16	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/21/17 21:16	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/21/17 21:16	1
2-Butanone	10	U	10		ug/L			09/21/17 21:16	1
2-Hexanone	10	U	10		ug/L			09/21/17 21:16	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/21/17 21:16	1
Acetone	10	U	10		ug/L			09/21/17 21:16	1
Benzene	1.0	U	1.0		ug/L			09/21/17 21:16	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
Bromoform	1.0	U	1.0		ug/L			09/21/17 21:16	1
Bromomethane	5.0	U	5.0		ug/L			09/21/17 21:16	1
Carbon disulfide	2.0	U	2.0		ug/L			09/21/17 21:16	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/21/17 21:16	1
Chlorobenzene	1.0	U	1.0		ug/L			09/21/17 21:16	1
Chloroethane	5.0	U	5.0		ug/L			09/21/17 21:16	1
Chloroform	1.0	U	1.0		ug/L			09/21/17 21:16	1
Chloromethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/21/17 21:16	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/21/17 21:16	1
Cyclohexane	1.0	U	1.0		ug/L			09/21/17 21:16	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
Ethylbenzene	1.0	U	1.0		ug/L			09/21/17 21:16	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/21/17 21:16	1
Methyl acetate	5.0	U	5.0		ug/L			09/21/17 21:16	1
Methyl tert-butyl ether	10	U	10		ug/L			09/21/17 21:16	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/21/17 21:16	1
Methylene Chloride	5.0	U	5.0		ug/L			09/21/17 21:16	1
Naphthalene	5.0	U	5.0		ug/L			09/21/17 21:16	1
Styrene	1.0	U	1.0		ug/L			09/21/17 21:16	1
Tetrachloroethene	1.0	U	1.0		ug/L			09/21/17 21:16	1
Toluene	1.0	U	1.0		ug/L			09/21/17 21:16	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/21/17 21:16	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/21/17 21:16	1
Trichloroethene	1.0	U	1.0		ug/L			09/21/17 21:16	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/21/17 21:16	1
Vinyl chloride	1.0	U	1.0		ug/L			09/21/17 21:16	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-495583/9
Matrix: Water
Analysis Batch: 495583

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.0	U	1.0		ug/L			09/21/17 21:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*73 - 131*		*09/21/17 21:16*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/21/17 21:16*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 122*		*09/21/17 21:16*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/21/17 21:16*	*1*

Lab Sample ID: LCS 680-495583/4
Matrix: Water
Analysis Batch: 495583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	54.2		ug/L		108	80 - 120
1,1,2,2-Tetrachloroethane	50.0	46.9		ug/L		94	76 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.7		ug/L		113	75 - 128
1,1,2-Trichloroethane	50.0	52.3		ug/L		105	80 - 120
1,1-Dichloroethane	50.0	51.0		ug/L		102	80 - 120
1,1-Dichloroethene	50.0	54.1		ug/L		108	80 - 120
1,2,4-Trichlorobenzene	50.0	57.3		ug/L		115	71 - 126
1,2-Dibromo-3-Chloropropane	50.0	52.0		ug/L		104	74 - 120
1,2-Dibromoethane	50.0	51.7		ug/L		103	75 - 126
1,2-Dichlorobenzene	50.0	52.6		ug/L		105	80 - 120
1,2-Dichloroethane	50.0	48.2		ug/L		96	72 - 128
1,2-Dichloropropane	50.0	50.7		ug/L		101	80 - 120
1,3-Dichlorobenzene	50.0	53.1		ug/L		106	80 - 120
1,4-Dichlorobenzene	50.0	52.3		ug/L		105	80 - 120
2-Butanone	250	217		ug/L		87	79 - 125
2-Hexanone	250	272		ug/L		109	80 - 131
4-Methyl-2-pentanone	250	233		ug/L		93	80 - 134
Acetone	250	216		ug/L		87	68 - 132
Benzene	50.0	51.0		ug/L		102	80 - 120
Bromodichloromethane	50.0	52.0		ug/L		104	80 - 120
Bromoform	50.0	47.3		ug/L		95	52 - 122
Bromomethane	50.0	37.7		ug/L		75	43 - 146
Carbon disulfide	50.0	55.3		ug/L		111	77 - 129
Carbon tetrachloride	50.0	59.5		ug/L		119	67 - 125
Chlorobenzene	50.0	51.8		ug/L		104	80 - 120
Chloroethane	50.0	45.3		ug/L		91	48 - 145
Chloroform	50.0	50.4		ug/L		101	80 - 120
Chloromethane	50.0	48.3		ug/L		97	76 - 149
cis-1,2-Dichloroethene	50.0	49.6		ug/L		99	80 - 120
cis-1,3-Dichloropropene	50.0	51.9		ug/L		104	80 - 129
Cyclohexane	50.0	61.2		ug/L		122	80 - 132
Dibromochloromethane	50.0	56.7		ug/L		113	68 - 120
Dichlorodifluoromethane	50.0	46.6		ug/L		93	70 - 137
Ethylbenzene	50.0	55.3		ug/L		111	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-495583/4
Matrix: Water
Analysis Batch: 495583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	57.7		ug/L		115	79 - 126
Methyl acetate	250	204		ug/L		81	73 - 139
Methyl tert-butyl ether	50.0	46.7		ug/L		93	80 - 122
Methylcyclohexane	50.0	67.0		ug/L		134	80 - 138
Methylene Chloride	50.0	47.9		ug/L		96	80 - 120
Naphthalene	50.0	53.9		ug/L		108	61 - 136
Styrene	50.0	50.9		ug/L		102	80 - 126
Tetrachloroethene	50.0	67.4	*	ug/L		135	71 - 123
Toluene	50.0	55.0		ug/L		110	80 - 120
trans-1,2-Dichloroethene	50.0	53.6		ug/L		107	80 - 120
trans-1,3-Dichloropropene	50.0	52.9		ug/L		106	80 - 128
Trichloroethene	50.0	56.6		ug/L		113	80 - 120
Trichlorofluoromethane	50.0	51.8		ug/L		104	58 - 127
Vinyl chloride	50.0	50.5		ug/L		101	80 - 129
Xylenes, Total	100	108		ug/L		108	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*73 - 131*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 122*
Toluene-d8 (Surr)	*108*		*80 - 120*

Lab Sample ID: LCSD 680-495583/5
Matrix: Water
Analysis Batch: 495583

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	53.7		ug/L		107	80 - 120	1	20
1,1,2,2-Tetrachloroethane	50.0	48.1		ug/L		96	76 - 126	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.8		ug/L		112	75 - 128	2	20
1,1,2-Trichloroethane	50.0	52.1		ug/L		104	80 - 120	0	20
1,1-Dichloroethane	50.0	50.9		ug/L		102	80 - 120	0	20
1,1-Dichloroethene	50.0	52.3		ug/L		105	80 - 120	3	20
1,2,4-Trichlorobenzene	50.0	58.5		ug/L		117	71 - 126	2	20
1,2-Dibromo-3-Chloropropane	50.0	53.5		ug/L		107	74 - 120	3	20
1,2-Dibromoethane	50.0	51.6		ug/L		103	75 - 126	0	20
1,2-Dichlorobenzene	50.0	53.8		ug/L		108	80 - 120	2	20
1,2-Dichloroethane	50.0	47.5		ug/L		95	72 - 128	1	50
1,2-Dichloropropane	50.0	51.4		ug/L		103	80 - 120	1	20
1,3-Dichlorobenzene	50.0	53.4		ug/L		107	80 - 120	1	20
1,4-Dichlorobenzene	50.0	52.4		ug/L		105	80 - 120	0	20
2-Butanone	250	215		ug/L		86	79 - 125	1	20
2-Hexanone	250	272		ug/L		109	80 - 131	0	20
4-Methyl-2-pentanone	250	232		ug/L		93	80 - 134	0	20
Acetone	250	207		ug/L		83	68 - 132	4	30
Benzene	50.0	50.8		ug/L		102	80 - 120	0	20
Bromodichloromethane	50.0	51.9		ug/L		104	80 - 120	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-495583/5
Matrix: Water
Analysis Batch: 495583

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform			50.0	47.4		ug/L		95	52 - 122	0	20
Bromomethane			50.0	38.7		ug/L		77	43 - 146	2	20
Carbon disulfide			50.0	55.3		ug/L		111	77 - 129	0	20
Carbon tetrachloride			50.0	58.5		ug/L		117	67 - 125	2	20
Chlorobenzene			50.0	53.0		ug/L		106	80 - 120	2	20
Chloroethane			50.0	45.6		ug/L		91	48 - 145	1	20
Chloroform			50.0	50.3		ug/L		101	80 - 120	0	20
Chloromethane			50.0	48.0		ug/L		96	76 - 149	0	30
cis-1,2-Dichloroethene			50.0	49.2		ug/L		98	80 - 120	1	20
cis-1,3-Dichloropropene			50.0	52.0		ug/L		104	80 - 129	0	20
Cyclohexane			50.0	60.9		ug/L		122	80 - 132	1	20
Dibromochloromethane			50.0	57.5		ug/L		115	68 - 120	1	20
Dichlorodifluoromethane			50.0	44.4		ug/L		89	70 - 137	5	40
Ethylbenzene			50.0	56.3		ug/L		113	80 - 120	2	20
Isopropylbenzene			50.0	58.6		ug/L		117	79 - 126	2	20
Methyl acetate			250	201		ug/L		81	73 - 139	1	20
Methyl tert-butyl ether			50.0	46.8		ug/L		94	80 - 122	0	20
Methylcyclohexane			50.0	65.5		ug/L		131	80 - 138	2	20
Methylene Chloride			50.0	47.4		ug/L		95	80 - 120	1	20
Naphthalene			50.0	56.0		ug/L		112	61 - 136	4	20
Styrene			50.0	51.2		ug/L		102	80 - 126	1	20
Tetrachloroethene			50.0	67.1	*	ug/L		134	71 - 123	1	20
Toluene			50.0	54.7		ug/L		109	80 - 120	1	20
trans-1,2-Dichloroethene			50.0	52.3		ug/L		105	80 - 120	2	20
trans-1,3-Dichloropropene			50.0	54.5		ug/L		109	80 - 128	3	30
Trichloroethene			50.0	56.3		ug/L		113	80 - 120	0	20
Trichlorofluoromethane			50.0	52.1		ug/L		104	58 - 127	0	20
Vinyl chloride			50.0	48.8		ug/L		98	80 - 129	3	20
Xylenes, Total			100	109		ug/L		109	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*73 - 131*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 122*
Toluene-d8 (Surr)	*108*		*80 - 120*

Lab Sample ID: MB 680-496733/9
Matrix: Water
Analysis Batch: 496733

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			09/30/17 10:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			09/30/17 10:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			09/30/17 10:43	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			09/30/17 10:43	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/30/17 10:43	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			09/30/17 10:43	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			09/30/17 10:43	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-496733/9
Matrix: Water
Analysis Batch: 496733

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			09/30/17 10:43	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			09/30/17 10:43	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			09/30/17 10:43	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			09/30/17 10:43	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			09/30/17 10:43	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			09/30/17 10:43	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			09/30/17 10:43	1
2-Butanone	10	U	10		ug/L			09/30/17 10:43	1
2-Hexanone	10	U	10		ug/L			09/30/17 10:43	1
4-Methyl-2-pentanone	10	U	10		ug/L			09/30/17 10:43	1
Acetone	10	U	10		ug/L			09/30/17 10:43	1
Benzene	1.0	U	1.0		ug/L			09/30/17 10:43	1
Bromodichloromethane	1.0	U	1.0		ug/L			09/30/17 10:43	1
Bromoform	1.0	U	1.0		ug/L			09/30/17 10:43	1
Bromomethane	5.0	U	5.0		ug/L			09/30/17 10:43	1
Carbon disulfide	2.0	U	2.0		ug/L			09/30/17 10:43	1
Carbon tetrachloride	1.0	U	1.0		ug/L			09/30/17 10:43	1
Chlorobenzene	1.0	U	1.0		ug/L			09/30/17 10:43	1
Chloroethane	5.0	U	5.0		ug/L			09/30/17 10:43	1
Chloroform	1.0	U	1.0		ug/L			09/30/17 10:43	1
Chloromethane	1.0	U	1.0		ug/L			09/30/17 10:43	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/30/17 10:43	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/30/17 10:43	1
Cyclohexane	1.0	U	1.0		ug/L			09/30/17 10:43	1
Dibromochloromethane	1.0	U	1.0		ug/L			09/30/17 10:43	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			09/30/17 10:43	1
Ethylbenzene	1.0	U	1.0		ug/L			09/30/17 10:43	1
Isopropylbenzene	1.0	U	1.0		ug/L			09/30/17 10:43	1
Methyl acetate	5.0	U	5.0		ug/L			09/30/17 10:43	1
Methyl tert-butyl ether	10	U	10		ug/L			09/30/17 10:43	1
Methylcyclohexane	1.0	U	1.0		ug/L			09/30/17 10:43	1
Methylene Chloride	5.0	U	5.0		ug/L			09/30/17 10:43	1
Naphthalene	5.0	U	5.0		ug/L			09/30/17 10:43	1
Styrene	1.0	U	1.0		ug/L			09/30/17 10:43	1
Tetrachloroethene	1.0	U	1.0		ug/L			09/30/17 10:43	1
Toluene	1.0	U	1.0		ug/L			09/30/17 10:43	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			09/30/17 10:43	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			09/30/17 10:43	1
Trichloroethene	1.0	U	1.0		ug/L			09/30/17 10:43	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			09/30/17 10:43	1
Vinyl chloride	1.0	U	1.0		ug/L			09/30/17 10:43	1
Xylenes, Total	1.0	U	1.0		ug/L			09/30/17 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*73 - 131*		*09/30/17 10:43*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/30/17 10:43*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*09/30/17 10:43*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/30/17 10:43*	*1*

QC Sample Results

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Lab Sample ID: LCS 680-496733/4
Matrix: Water
Analysis Batch: 496733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	53.8		ug/L		108	80 - 120
1,1,2,2-Tetrachloroethane	50.0	47.1		ug/L		94	76 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.9		ug/L		112	75 - 128
1,1,2-Trichloroethane	50.0	48.1		ug/L		96	80 - 120
1,1-Dichloroethane	50.0	52.7		ug/L		105	80 - 120
1,1-Dichloroethene	50.0	56.2		ug/L		112	80 - 120
1,2,4-Trichlorobenzene	50.0	47.9		ug/L		96	71 - 126
1,2-Dibromo-3-Chloropropane	50.0	43.7		ug/L		87	74 - 120
1,2-Dibromoethane	50.0	47.7		ug/L		95	75 - 126
1,2-Dichlorobenzene	50.0	49.5		ug/L		99	80 - 120
1,2-Dichloroethane	50.0	47.9		ug/L		96	72 - 128
1,2-Dichloropropane	50.0	51.5		ug/L		103	80 - 120
1,3-Dichlorobenzene	50.0	49.6		ug/L		99	80 - 120
1,4-Dichlorobenzene	50.0	49.3		ug/L		99	80 - 120
2-Butanone	250	222		ug/L		89	79 - 125
2-Hexanone	250	210		ug/L		84	80 - 131
4-Methyl-2-pentanone	250	216		ug/L		87	80 - 134
Acetone	250	210		ug/L		84	68 - 132
Benzene	50.0	52.2		ug/L		104	80 - 120
Bromodichloromethane	50.0	50.4		ug/L		101	80 - 120
Bromoform	50.0	46.8		ug/L		94	52 - 122
Bromomethane	50.0	63.4		ug/L		127	43 - 146
Carbon disulfide	50.0	57.5		ug/L		115	77 - 129
Carbon tetrachloride	50.0	53.4		ug/L		107	67 - 125
Chlorobenzene	50.0	51.8		ug/L		104	80 - 120
Chloroethane	50.0	52.4		ug/L		105	48 - 145
Chloroform	50.0	50.8		ug/L		102	80 - 120
Chloromethane	50.0	58.8		ug/L		118	76 - 149
cis-1,2-Dichloroethene	50.0	51.8		ug/L		104	80 - 120
cis-1,3-Dichloropropene	50.0	49.0		ug/L		98	80 - 129
Cyclohexane	50.0	52.3		ug/L		105	80 - 132
Dibromochloromethane	50.0	48.8		ug/L		98	68 - 120
Dichlorodifluoromethane	50.0	56.4		ug/L		113	70 - 137
Ethylbenzene	50.0	53.5		ug/L		107	80 - 120
Isopropylbenzene	50.0	54.2		ug/L		108	79 - 126
Methyl acetate	250	214		ug/L		85	73 - 139
Methyl tert-butyl ether	50.0	48.6		ug/L		97	80 - 122
Methylcyclohexane	50.0	54.5		ug/L		109	80 - 138
Methylene Chloride	50.0	51.5		ug/L		103	80 - 120
Naphthalene	50.0	44.9		ug/L		90	61 - 136
Styrene	50.0	52.6		ug/L		105	80 - 126
Tetrachloroethene	50.0	52.3		ug/L		105	71 - 123
Toluene	50.0	51.5		ug/L		103	80 - 120
trans-1,2-Dichloroethene	50.0	49.6		ug/L		99	80 - 120
trans-1,3-Dichloropropene	50.0	48.6		ug/L		97	80 - 128
Trichloroethene	50.0	51.1		ug/L		102	80 - 120
Trichlorofluoromethane	50.0	54.8		ug/L		110	58 - 127
Vinyl chloride	50.0	58.9		ug/L		118	80 - 129
Xylenes, Total	100	106		ug/L		106	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-496733/4
Matrix: Water
Analysis Batch: 496733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*73 - 131*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 122*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 680-496733/6
Matrix: Water
Analysis Batch: 496733

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	55.4		ug/L		111	80 - 120	3	20
1,1,2,2-Tetrachloroethane			50.0	48.5		ug/L		97	76 - 126	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	56.0		ug/L		112	75 - 128	0	20
1,1,2-Trichloroethane			50.0	49.0		ug/L		98	80 - 120	2	20
1,1-Dichloroethane			50.0	54.0		ug/L		108	80 - 120	2	20
1,1-Dichloroethene			50.0	58.0		ug/L		116	80 - 120	3	20
1,2,4-Trichlorobenzene			50.0	46.5		ug/L		93	71 - 126	3	20
1,2-Dibromo-3-Chloropropane			50.0	44.6		ug/L		89	74 - 120	2	20
1,2-Dibromoethane			50.0	50.5		ug/L		101	75 - 126	6	20
1,2-Dichlorobenzene			50.0	49.8		ug/L		100	80 - 120	1	20
1,2-Dichloroethane			50.0	50.8		ug/L		102	72 - 128	6	50
1,2-Dichloropropane			50.0	52.7		ug/L		105	80 - 120	2	20
1,3-Dichlorobenzene			50.0	49.2		ug/L		98	80 - 120	1	20
1,4-Dichlorobenzene			50.0	48.9		ug/L		98	80 - 120	1	20
2-Butanone			250	231		ug/L		92	79 - 125	4	20
2-Hexanone			250	233		ug/L		93	80 - 131	10	20
4-Methyl-2-pentanone			250	233		ug/L		93	80 - 134	7	20
Acetone			250	228		ug/L		91	68 - 132	8	30
Benzene			50.0	54.0		ug/L		108	80 - 120	3	20
Bromodichloromethane			50.0	53.3		ug/L		107	80 - 120	6	20
Bromoform			50.0	48.8		ug/L		98	52 - 122	4	20
Bromomethane			50.0	64.5		ug/L		129	43 - 146	2	20
Carbon disulfide			50.0	57.3		ug/L		115	77 - 129	0	20
Carbon tetrachloride			50.0	52.6		ug/L		105	67 - 125	1	20
Chlorobenzene			50.0	52.3		ug/L		105	80 - 120	1	20
Chloroethane			50.0	55.6		ug/L		111	48 - 145	6	20
Chloroform			50.0	52.7		ug/L		105	80 - 120	4	20
Chloromethane			50.0	59.4		ug/L		119	76 - 149	1	30
cis-1,2-Dichloroethene			50.0	53.8		ug/L		108	80 - 120	4	20
cis-1,3-Dichloropropene			50.0	52.4		ug/L		105	80 - 129	7	20
Cyclohexane			50.0	52.8		ug/L		106	80 - 132	1	20
Dibromochloromethane			50.0	52.3		ug/L		105	68 - 120	7	20
Dichlorodifluoromethane			50.0	57.9		ug/L		116	70 - 137	3	40
Ethylbenzene			50.0	53.1		ug/L		106	80 - 120	1	20
Isopropylbenzene			50.0	54.2		ug/L		108	79 - 126	0	20
Methyl acetate			250	231		ug/L		93	73 - 139	8	20
Methyl tert-butyl ether			50.0	51.3		ug/L		103	80 - 122	6	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-496733/6
Matrix: Water
Analysis Batch: 496733

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylcyclohexane			50.0	54.7		ug/L		109	80 - 138	0	20
Methylene Chloride			50.0	53.7		ug/L		107	80 - 120	4	20
Naphthalene			50.0	45.1		ug/L		90	61 - 136	0	20
Styrene			50.0	53.0		ug/L		106	80 - 126	1	20
Tetrachloroethene			50.0	54.7		ug/L		109	71 - 123	5	20
Toluene			50.0	53.3		ug/L		107	80 - 120	3	20
trans-1,2-Dichloroethene			50.0	50.5		ug/L		101	80 - 120	2	20
trans-1,3-Dichloropropene			50.0	51.8		ug/L		104	80 - 128	6	30
Trichloroethene			50.0	52.1		ug/L		104	80 - 120	2	20
Trichlorofluoromethane			50.0	55.7		ug/L		111	58 - 127	2	20
Vinyl chloride			50.0	58.7		ug/L		117	80 - 129	0	20
Xylenes, Total			100	107		ug/L		107	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 122*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: MB 680-496800/10
Matrix: Water
Analysis Batch: 496800

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			10/02/17 12:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			10/02/17 12:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			10/02/17 12:45	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			10/02/17 12:45	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			10/02/17 12:45	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			10/02/17 12:45	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			10/02/17 12:45	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			10/02/17 12:45	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			10/02/17 12:45	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 12:45	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			10/02/17 12:45	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			10/02/17 12:45	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 12:45	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 12:45	1
2-Butanone	10	U	10		ug/L			10/02/17 12:45	1
2-Hexanone	10	U	10		ug/L			10/02/17 12:45	1
4-Methyl-2-pentanone	10	U	10		ug/L			10/02/17 12:45	1
Acetone	10	U	10		ug/L			10/02/17 12:45	1
Benzene	1.0	U	1.0		ug/L			10/02/17 12:45	1
Bromodichloromethane	1.0	U	1.0		ug/L			10/02/17 12:45	1
Bromoform	1.0	U	1.0		ug/L			10/02/17 12:45	1
Bromomethane	5.0	U	5.0		ug/L			10/02/17 12:45	1
Carbon disulfide	2.0	U	2.0		ug/L			10/02/17 12:45	1
Carbon tetrachloride	1.0	U	1.0		ug/L			10/02/17 12:45	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-496800/10
Matrix: Water
Analysis Batch: 496800

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0		ug/L			10/02/17 12:45	1
Chloroethane	5.0	U	5.0		ug/L			10/02/17 12:45	1
Chloroform	1.0	U	1.0		ug/L			10/02/17 12:45	1
Chloromethane	1.0	U	1.0		ug/L			10/02/17 12:45	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			10/02/17 12:45	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/02/17 12:45	1
Cyclohexane	1.0	U	1.0		ug/L			10/02/17 12:45	1
Dibromochloromethane	1.0	U	1.0		ug/L			10/02/17 12:45	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			10/02/17 12:45	1
Ethylbenzene	1.0	U	1.0		ug/L			10/02/17 12:45	1
Isopropylbenzene	1.0	U	1.0		ug/L			10/02/17 12:45	1
Methyl acetate	5.0	U	5.0		ug/L			10/02/17 12:45	1
Methyl tert-butyl ether	10	U	10		ug/L			10/02/17 12:45	1
Methylcyclohexane	1.0	U	1.0		ug/L			10/02/17 12:45	1
Methylene Chloride	5.0	U	5.0		ug/L			10/02/17 12:45	1
Naphthalene	5.0	U	5.0		ug/L			10/02/17 12:45	1
Styrene	1.0	U	1.0		ug/L			10/02/17 12:45	1
Tetrachloroethene	1.0	U	1.0		ug/L			10/02/17 12:45	1
Toluene	1.0	U	1.0		ug/L			10/02/17 12:45	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			10/02/17 12:45	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/02/17 12:45	1
Trichloroethene	1.0	U	1.0		ug/L			10/02/17 12:45	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			10/02/17 12:45	1
Vinyl chloride	1.0	U	1.0		ug/L			10/02/17 12:45	1
Xylenes, Total	1.0	U	1.0		ug/L			10/02/17 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 131*		*10/02/17 12:45*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*10/02/17 12:45*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*10/02/17 12:45*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/02/17 12:45*	*1*

Lab Sample ID: LCS 680-496800/4
Matrix: Water
Analysis Batch: 496800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	54.5		ug/L		109	80 - 120
1,1,2,2-Tetrachloroethane	50.0	45.7		ug/L		91	76 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.3		ug/L		91	75 - 128
1,1,2-Trichloroethane	50.0	49.2		ug/L		98	80 - 120
1,1-Dichloroethane	50.0	51.6		ug/L		103	80 - 120
1,1-Dichloroethene	50.0	47.7		ug/L		95	80 - 120
1,2,4-Trichlorobenzene	50.0	50.6		ug/L		101	71 - 126
1,2-Dibromo-3-Chloropropane	50.0	52.9		ug/L		106	74 - 120
1,2-Dibromoethane	50.0	49.9		ug/L		100	75 - 126
1,2-Dichlorobenzene	50.0	51.4		ug/L		103	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-496800/4
Matrix: Water
Analysis Batch: 496800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	51.3		ug/L		103	72 - 128
1,2-Dichloropropane	50.0	54.1		ug/L		108	80 - 120
1,3-Dichlorobenzene	50.0	51.9		ug/L		104	80 - 120
1,4-Dichlorobenzene	50.0	50.5		ug/L		101	80 - 120
2-Butanone	250	271		ug/L		108	79 - 125
2-Hexanone	250	265		ug/L		106	80 - 131
4-Methyl-2-pentanone	250	261		ug/L		104	80 - 134
Acetone	250	262		ug/L		105	68 - 132
Benzene	50.0	52.1		ug/L		104	80 - 120
Bromodichloromethane	50.0	53.2		ug/L		106	80 - 120
Bromoform	50.0	52.0		ug/L		104	52 - 122
Bromomethane	50.0	55.2		ug/L		110	43 - 146
Carbon disulfide	50.0	49.4		ug/L		99	77 - 129
Carbon tetrachloride	50.0	47.6		ug/L		95	67 - 125
Chlorobenzene	50.0	50.6		ug/L		101	80 - 120
Chloroethane	50.0	49.7		ug/L		99	48 - 145
Chloroform	50.0	52.6		ug/L		105	80 - 120
Chloromethane	50.0	49.7		ug/L		99	76 - 149
cis-1,2-Dichloroethene	50.0	51.7		ug/L		103	80 - 120
cis-1,3-Dichloropropene	50.0	53.3		ug/L		107	80 - 129
Cyclohexane	50.0	45.5		ug/L		91	80 - 132
Dibromochloromethane	50.0	56.8		ug/L		114	68 - 120
Dichlorodifluoromethane	50.0	47.5		ug/L		95	70 - 137
Ethylbenzene	50.0	52.0		ug/L		104	80 - 120
Isopropylbenzene	50.0	47.6		ug/L		95	79 - 126
Methyl acetate	250	258		ug/L		103	73 - 139
Methyl tert-butyl ether	50.0	52.7		ug/L		105	80 - 122
Methylcyclohexane	50.0	46.4		ug/L		93	80 - 138
Methylene Chloride	50.0	52.9		ug/L		106	80 - 120
Naphthalene	50.0	50.1		ug/L		100	61 - 136
Styrene	50.0	52.4		ug/L		105	80 - 126
Tetrachloroethene	50.0	48.5		ug/L		97	71 - 123
Toluene	50.0	53.1		ug/L		106	80 - 120
trans-1,2-Dichloroethene	50.0	47.1		ug/L		94	80 - 120
trans-1,3-Dichloropropene	50.0	53.3		ug/L		107	80 - 128
Trichloroethene	50.0	48.4		ug/L		97	80 - 120
Trichlorofluoromethane	50.0	48.6		ug/L		97	58 - 127
Vinyl chloride	50.0	50.5		ug/L		101	80 - 129
Xylenes, Total	100	106		ug/L		106	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 122*
Toluene-d8 (Surr)	*107*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-496800/5
Matrix: Water
Analysis Batch: 496800

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	53.5		ug/L		107	80 - 120	2	20
1,1,2,2-Tetrachloroethane	50.0	46.9		ug/L		94	76 - 126	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.3		ug/L		93	75 - 128	2	20
1,1,2-Trichloroethane	50.0	47.7		ug/L		95	80 - 120	3	20
1,1-Dichloroethane	50.0	49.9		ug/L		100	80 - 120	3	20
1,1-Dichloroethene	50.0	47.1		ug/L		94	80 - 120	1	20
1,2,4-Trichlorobenzene	50.0	52.0		ug/L		104	71 - 126	3	20
1,2-Dibromo-3-Chloropropane	50.0	53.8		ug/L		108	74 - 120	2	20
1,2-Dibromoethane	50.0	49.2		ug/L		98	75 - 126	1	20
1,2-Dichlorobenzene	50.0	50.8		ug/L		102	80 - 120	1	20
1,2-Dichloroethane	50.0	50.4		ug/L		101	72 - 128	2	50
1,2-Dichloropropane	50.0	52.0		ug/L		104	80 - 120	4	20
1,3-Dichlorobenzene	50.0	51.8		ug/L		104	80 - 120	0	20
1,4-Dichlorobenzene	50.0	50.2		ug/L		100	80 - 120	1	20
2-Butanone	250	255		ug/L		102	79 - 125	6	20
2-Hexanone	250	260		ug/L		104	80 - 131	2	20
4-Methyl-2-pentanone	250	253		ug/L		101	80 - 134	3	20
Acetone	250	247		ug/L		99	68 - 132	6	30
Benzene	50.0	52.4		ug/L		105	80 - 120	1	20
Bromodichloromethane	50.0	53.1		ug/L		106	80 - 120	0	20
Bromoform	50.0	52.3		ug/L		105	52 - 122	1	20
Bromomethane	50.0	53.5		ug/L		107	43 - 146	3	20
Carbon disulfide	50.0	48.8		ug/L		98	77 - 129	1	20
Carbon tetrachloride	50.0	47.0		ug/L		94	67 - 125	1	20
Chlorobenzene	50.0	50.4		ug/L		101	80 - 120	0	20
Chloroethane	50.0	50.4		ug/L		101	48 - 145	1	20
Chloroform	50.0	51.5		ug/L		103	80 - 120	2	20
Chloromethane	50.0	49.1		ug/L		98	76 - 149	1	30
cis-1,2-Dichloroethene	50.0	51.3		ug/L		103	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	52.7		ug/L		105	80 - 129	1	20
Cyclohexane	50.0	46.2		ug/L		92	80 - 132	2	20
Dibromochloromethane	50.0	55.8		ug/L		112	68 - 120	2	20
Dichlorodifluoromethane	50.0	47.6		ug/L		95	70 - 137	0	40
Ethylbenzene	50.0	53.1		ug/L		106	80 - 120	2	20
Isopropylbenzene	50.0	47.8		ug/L		96	79 - 126	0	20
Methyl acetate	250	254		ug/L		102	73 - 139	2	20
Methyl tert-butyl ether	50.0	52.4		ug/L		105	80 - 122	1	20
Methylcyclohexane	50.0	46.9		ug/L		94	80 - 138	1	20
Methylene Chloride	50.0	51.0		ug/L		102	80 - 120	4	20
Naphthalene	50.0	50.6		ug/L		101	61 - 136	1	20
Styrene	50.0	52.6		ug/L		105	80 - 126	0	20
Tetrachloroethene	50.0	48.5		ug/L		97	71 - 123	0	20
Toluene	50.0	52.8		ug/L		106	80 - 120	1	20
trans-1,2-Dichloroethene	50.0	46.4		ug/L		93	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	52.9		ug/L		106	80 - 128	1	30
Trichloroethene	50.0	47.8		ug/L		96	80 - 120	1	20
Trichlorofluoromethane	50.0	48.2		ug/L		96	58 - 127	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-496800/5
Matrix: Water
Analysis Batch: 496800

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride			50.0	49.8		ug/L		100	80 - 129	1	20
Xylenes, Total			100	107		ug/L		107	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 122*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: MB 680-496939/9
Matrix: Water
Analysis Batch: 496939

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			10/02/17 21:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			10/02/17 21:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			10/02/17 21:07	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			10/02/17 21:07	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			10/02/17 21:07	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			10/02/17 21:07	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			10/02/17 21:07	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			10/02/17 21:07	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			10/02/17 21:07	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 21:07	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			10/02/17 21:07	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			10/02/17 21:07	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 21:07	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			10/02/17 21:07	1
2-Butanone	10	U	10		ug/L			10/02/17 21:07	1
2-Hexanone	10	U	10		ug/L			10/02/17 21:07	1
4-Methyl-2-pentanone	10	U	10		ug/L			10/02/17 21:07	1
Acetone	10	U	10		ug/L			10/02/17 21:07	1
Benzene	1.0	U	1.0		ug/L			10/02/17 21:07	1
Bromodichloromethane	1.0	U	1.0		ug/L			10/02/17 21:07	1
Bromoform	1.0	U	1.0		ug/L			10/02/17 21:07	1
Bromomethane	5.0	U	5.0		ug/L			10/02/17 21:07	1
Carbon disulfide	2.0	U	2.0		ug/L			10/02/17 21:07	1
Carbon tetrachloride	1.0	U	1.0		ug/L			10/02/17 21:07	1
Chlorobenzene	1.0	U	1.0		ug/L			10/02/17 21:07	1
Chloroethane	5.0	U	5.0		ug/L			10/02/17 21:07	1
Chloroform	1.0	U	1.0		ug/L			10/02/17 21:07	1
Chloromethane	1.0	U	1.0		ug/L			10/02/17 21:07	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			10/02/17 21:07	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/02/17 21:07	1
Cyclohexane	1.0	U	1.0		ug/L			10/02/17 21:07	1
Dibromochloromethane	1.0	U	1.0		ug/L			10/02/17 21:07	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			10/02/17 21:07	1
Ethylbenzene	1.0	U	1.0		ug/L			10/02/17 21:07	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-496939/9
Matrix: Water
Analysis Batch: 496939

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	1.0	U	1.0		ug/L			10/02/17 21:07	1
Methyl acetate	5.0	U	5.0		ug/L			10/02/17 21:07	1
Methyl tert-butyl ether	10	U	10		ug/L			10/02/17 21:07	1
Methylcyclohexane	1.0	U	1.0		ug/L			10/02/17 21:07	1
Methylene Chloride	5.0	U	5.0		ug/L			10/02/17 21:07	1
Naphthalene	5.0	U	5.0		ug/L			10/02/17 21:07	1
Styrene	1.0	U	1.0		ug/L			10/02/17 21:07	1
Tetrachloroethene	1.0	U	1.0		ug/L			10/02/17 21:07	1
Toluene	1.0	U	1.0		ug/L			10/02/17 21:07	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			10/02/17 21:07	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/02/17 21:07	1
Trichloroethene	1.0	U	1.0		ug/L			10/02/17 21:07	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			10/02/17 21:07	1
Vinyl chloride	1.0	U	1.0		ug/L			10/02/17 21:07	1
Xylenes, Total	1.0	U	1.0		ug/L			10/02/17 21:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*73 - 131*		*10/02/17 21:07*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/02/17 21:07*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*10/02/17 21:07*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/02/17 21:07*	*1*

Lab Sample ID: LCS 680-496939/4
Matrix: Water
Analysis Batch: 496939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	51.3		ug/L		103	80 - 120
1,1,2,2-Tetrachloroethane	50.0	42.3		ug/L		85	76 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.5		ug/L		93	75 - 128
1,1,2-Trichloroethane	50.0	43.5		ug/L		87	80 - 120
1,1-Dichloroethane	50.0	49.4		ug/L		99	80 - 120
1,1-Dichloroethene	50.0	47.1		ug/L		94	80 - 120
1,2,4-Trichlorobenzene	50.0	46.9		ug/L		94	71 - 126
1,2-Dibromo-3-Chloropropane	50.0	46.4		ug/L		93	74 - 120
1,2-Dibromoethane	50.0	43.8		ug/L		88	75 - 126
1,2-Dichlorobenzene	50.0	46.7		ug/L		93	80 - 120
1,2-Dichloroethane	50.0	47.7		ug/L		95	72 - 128
1,2-Dichloropropane	50.0	49.8		ug/L		100	80 - 120
1,3-Dichlorobenzene	50.0	48.3		ug/L		97	80 - 120
1,4-Dichlorobenzene	50.0	47.7		ug/L		95	80 - 120
2-Butanone	250	232		ug/L		93	79 - 125
2-Hexanone	250	225		ug/L		90	80 - 131
4-Methyl-2-pentanone	250	227		ug/L		91	80 - 134
Acetone	250	228		ug/L		91	68 - 132
Benzene	50.0	50.4		ug/L		101	80 - 120
Bromodichloromethane	50.0	48.8		ug/L		98	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-496939/4
Matrix: Water
Analysis Batch: 496939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	50.0	41.8		ug/L		84	52 - 122
Bromomethane	50.0	51.4		ug/L		103	43 - 146
Carbon disulfide	50.0	48.6		ug/L		97	77 - 129
Carbon tetrachloride	50.0	45.2		ug/L		90	67 - 125
Chlorobenzene	50.0	49.0		ug/L		98	80 - 120
Chloroethane	50.0	47.9		ug/L		96	48 - 145
Chloroform	50.0	49.2		ug/L		98	80 - 120
Chloromethane	50.0	50.3		ug/L		101	76 - 149
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	80 - 120
cis-1,3-Dichloropropene	50.0	47.8		ug/L		96	80 - 129
Cyclohexane	50.0	45.5		ug/L		91	80 - 132
Dibromochloromethane	50.0	46.6		ug/L		93	68 - 120
Dichlorodifluoromethane	50.0	45.9		ug/L		92	70 - 137
Ethylbenzene	50.0	51.2		ug/L		102	80 - 120
Isopropylbenzene	50.0	46.5		ug/L		93	79 - 126
Methyl acetate	250	208		ug/L		83	73 - 139
Methyl tert-butyl ether	50.0	47.5		ug/L		95	80 - 122
Methylcyclohexane	50.0	45.5		ug/L		91	80 - 138
Methylene Chloride	50.0	50.9		ug/L		102	80 - 120
Naphthalene	50.0	44.2		ug/L		88	61 - 136
Styrene	50.0	50.2		ug/L		100	80 - 126
Tetrachloroethene	50.0	46.0		ug/L		92	71 - 123
Toluene	50.0	51.1		ug/L		102	80 - 120
trans-1,2-Dichloroethene	50.0	45.9		ug/L		92	80 - 120
trans-1,3-Dichloropropene	50.0	47.5		ug/L		95	80 - 128
Trichloroethene	50.0	45.3		ug/L		91	80 - 120
Trichlorofluoromethane	50.0	47.7		ug/L		95	58 - 127
Vinyl chloride	50.0	49.4		ug/L		99	80 - 129
Xylenes, Total	100	103		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*73 - 131*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*80 - 122*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 680-496939/5
Matrix: Water
Analysis Batch: 496939

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	52.7		ug/L		105	80 - 120	3	20
1,1,2,2-Tetrachloroethane	50.0	40.7		ug/L		81	76 - 126	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.4		ug/L		93	75 - 128	0	20
1,1,2-Trichloroethane	50.0	42.7		ug/L		85	80 - 120	2	20
1,1-Dichloroethane	50.0	49.6		ug/L		99	80 - 120	0	20
1,1-Dichloroethene	50.0	47.3		ug/L		95	80 - 120	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-496939/5
Matrix: Water
Analysis Batch: 496939

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene			50.0	48.1		ug/L		96	71 - 126	2	20
1,2-Dibromo-3-Chloropropane			50.0	45.4		ug/L		91	74 - 120	2	20
1,2-Dibromoethane			50.0	43.8		ug/L		88	75 - 126	0	20
1,2-Dichlorobenzene			50.0	49.4		ug/L		99	80 - 120	6	20
1,2-Dichloroethane			50.0	47.1		ug/L		94	72 - 128	1	50
1,2-Dichloropropane			50.0	50.3		ug/L		101	80 - 120	1	20
1,3-Dichlorobenzene			50.0	50.2		ug/L		100	80 - 120	4	20
1,4-Dichlorobenzene			50.0	49.0		ug/L		98	80 - 120	3	20
2-Butanone			250	230		ug/L		92	79 - 125	1	20
2-Hexanone			250	220		ug/L		88	80 - 131	2	20
4-Methyl-2-pentanone			250	215		ug/L		86	80 - 134	5	20
Acetone			250	208		ug/L		83	68 - 132	9	30
Benzene			50.0	51.0		ug/L		102	80 - 120	1	20
Bromodichloromethane			50.0	49.0		ug/L		98	80 - 120	0	20
Bromoform			50.0	40.1		ug/L		80	52 - 122	4	20
Bromomethane			50.0	56.3		ug/L		113	43 - 146	9	20
Carbon disulfide			50.0	51.2		ug/L		102	77 - 129	5	20
Carbon tetrachloride			50.0	46.4		ug/L		93	67 - 125	3	20
Chlorobenzene			50.0	48.9		ug/L		98	80 - 120	0	20
Chloroethane			50.0	49.4		ug/L		99	48 - 145	3	20
Chloroform			50.0	49.6		ug/L		99	80 - 120	1	20
Chloromethane			50.0	50.7		ug/L		101	76 - 149	1	30
cis-1,2-Dichloroethene			50.0	49.6		ug/L		99	80 - 120	1	20
cis-1,3-Dichloropropene			50.0	48.6		ug/L		97	80 - 129	2	20
Cyclohexane			50.0	46.8		ug/L		94	80 - 132	3	20
Dibromochloromethane			50.0	47.2		ug/L		94	68 - 120	1	20
Dichlorodifluoromethane			50.0	46.8		ug/L		94	70 - 137	2	40
Ethylbenzene			50.0	51.1		ug/L		102	80 - 120	0	20
Isopropylbenzene			50.0	46.5		ug/L		93	79 - 126	0	20
Methyl acetate			250	207		ug/L		83	73 - 139	1	20
Methyl tert-butyl ether			50.0	46.8		ug/L		94	80 - 122	2	20
Methylcyclohexane			50.0	46.1		ug/L		92	80 - 138	1	20
Methylene Chloride			50.0	50.5		ug/L		101	80 - 120	1	20
Naphthalene			50.0	44.3		ug/L		89	61 - 136	0	20
Styrene			50.0	50.6		ug/L		101	80 - 126	1	20
Tetrachloroethene			50.0	47.3		ug/L		95	71 - 123	3	20
Toluene			50.0	51.1		ug/L		102	80 - 120	0	20
trans-1,2-Dichloroethene			50.0	47.1		ug/L		94	80 - 120	3	20
trans-1,3-Dichloropropene			50.0	47.0		ug/L		94	80 - 128	1	30
Trichloroethene			50.0	46.7		ug/L		93	80 - 120	3	20
Trichlorofluoromethane			50.0	48.3		ug/L		97	58 - 127	1	20
Vinyl chloride			50.0	50.5		ug/L		101	80 - 129	2	20
Xylenes, Total			100	103		ug/L		103	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*73 - 131*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 122*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-496939/5
Matrix: Water
Analysis Batch: 496939

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	100		80 - 120

QC Association Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

GC/MS VOA

Analysis Batch: 495583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-143183-1	SMW-2	Total/NA	Water	8260B	
MB 680-495583/9	Method Blank	Total/NA	Water	8260B	
LCS 680-495583/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-495583/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 496733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-143184-2	YMW-8	Total/NA	Water	8260B	
680-143185-2	YMW-17	Total/NA	Water	8260B	
680-143185-3	YMW-18	Total/NA	Water	8260B	
680-143185-4	Trip Blank	Total/NA	Water	8260B	
MB 680-496733/9	Method Blank	Total/NA	Water	8260B	
LCS 680-496733/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-496733/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 496800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-143184-1	YMW-2	Total/NA	Water	8260B	
680-143185-1	YMW-14	Total/NA	Water	8260B	
680-143186-1	SW-1	Total/NA	Water	8260B	
680-143186-1	SW-1	Total/NA	Water	8260B	
680-143186-2	SW-2	Total/NA	Water	8260B	
680-143186-3	SW-3	Total/NA	Water	8260B	
680-143186-4	SW-4	Total/NA	Water	8260B	
680-143186-5	Trip Blank	Total/NA	Water	8260B	
MB 680-496800/10	Method Blank	Total/NA	Water	8260B	
LCS 680-496800/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-496800/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 496939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-143186-3	SW-3	Total/NA	Water	8260B	
MB 680-496939/9	Method Blank	Total/NA	Water	8260B	
LCS 680-496939/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-496939/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: SMW-2
Lab Sample ID: 680-143183-1
Date Collected: 09/18/17 12:30
Matrix: Water
Date Received: 09/19/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	495583	09/22/17 04:10	CMB	TAL SAV

Client Sample ID: YMW-2
Lab Sample ID: 680-143184-1
Date Collected: 09/18/17 11:55
Matrix: Water
Date Received: 09/19/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	496800	10/02/17 13:10	CMB	TAL SAV

Client Sample ID: YMW-8
Lab Sample ID: 680-143184-2
Date Collected: 09/18/17 11:00
Matrix: Water
Date Received: 09/19/17 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	496733	09/30/17 14:50	JLK	TAL SAV

Client Sample ID: YMW-14
Lab Sample ID: 680-143185-1
Date Collected: 09/18/17 13:35
Matrix: Water
Date Received: 09/19/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	496800	10/02/17 13:34	CMB	TAL SAV

Client Sample ID: YMW-17
Lab Sample ID: 680-143185-2
Date Collected: 09/18/17 10:05
Matrix: Water
Date Received: 09/19/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	496733	09/30/17 16:04	JLK	TAL SAV

Client Sample ID: YMW-18
Lab Sample ID: 680-143185-3
Date Collected: 09/18/17 09:50
Matrix: Water
Date Received: 09/19/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	496733	09/30/17 15:39	JLK	TAL SAV

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Client Sample ID: Trip Blank
Date Collected: 09/18/17 00:00
Date Received: 09/19/17 08:50

Lab Sample ID: 680-143185-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	496733	09/30/17 15:15	JLK	TAL SAV

Client Sample ID: SW-1
Date Collected: 09/18/17 14:45
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	496800	10/02/17 13:59	CMB	TAL SAV
Total/NA	Analysis	8260B		10	496800	10/02/17 16:52	CMB	TAL SAV

Client Sample ID: SW-2
Date Collected: 09/18/17 14:25
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	496800	10/02/17 17:16	CMB	TAL SAV

Client Sample ID: SW-3
Date Collected: 09/18/17 13:50
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	496800	10/02/17 14:48	CMB	TAL SAV
Total/NA	Analysis	8260B		1	496939	10/02/17 21:56	CMB	TAL SAV

Client Sample ID: SW-4
Date Collected: 09/18/17 13:25
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	496800	10/02/17 15:13	CMB	TAL SAV

Client Sample ID: Trip Blank
Date Collected: 09/18/17 00:00
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	496800	10/02/17 15:38	CMB	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TestAmerica Savannah
5102 LaRoche Avenue

Savannah, GA 31404-6019
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Rachel Andrews	Site Contact:	Date:	COC No:
Giant Cement	Tel/Fax: 770-973-2100 ext. 2857	Lab Contact: Jerry Lanier	Carrier:	_____ of _____ COCs
654 Judge Street PO Box 218	Analysis Turnaround Time			Sampler:
Harleyville, SC 29448	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
803-496-2851 Phone	TAT if different from Below _____			Walk-in Client:
FAX	☐ 2 weeks			Lab Sampling:
Project Name: GCHI - SECHEM, INC.	☐ 1 week			
Site: SECHEM, INC.	☐ 2 days			Job / SDG No.:
P O # 316902	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	8260B (MOD) TCL OLM04.2+Naphthalene	8260B_SIM - 1,4-Dioxane	Sample Specific Notes:
~~SMW-1~~				Water						
SMW-2	9/18/17	12:30	G	Water	6	N	N	3	3	
~~SMW-3~~				Water						
~~SMW-4~~				Water						
~~SMW-1~~				Water						
~~TRIP BLANK~~				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
								2	2	

680-143183 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

0.6(CF+0.3)0.9

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Earthlon	Date/Time: 9/18/17 1630	Received by:	Company:	Date/Time: 9-18-17 1630
Relinquished by:	Company:	Date/Time: 1632	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 9/19/17 0700

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TestAmerica Savannah
5102 LaRoche Avenue

Savannah, GA 31404-6019
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Rachel Andrews	Site Contact:	Date:	COC No:
Giant Cement	Tel/Fax: 770-973-2100 ext. 2857	Lab Contact: Jerry Lanier	Carrier:	____ of ____ COCs
654 Judge Street PO Box 218	Analysis Turnaround Time			Sampler:
Harleyville, SC 29448	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
803-496-2851 Phone	TAT if different from Below ____			Walk-in Client:
FAX	☐ 2 weeks			Lab Sampling:
Project Name: GCHI - SECHEM, INC.	☐ 1 week			
Site: SECHEM, INC.	☐ 2 days			Job / SDG No.:
P O # 316902	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	8260B (MOD) TCL OLM04.2+Naphthalene	8260B_SIM - 1,4-Dioxane	Sample Specific Notes:
[redacted]				Water						
[redacted]				Water						
YMW-2	9/18/17	11:55	G	Water	6	N	N	3	3	
[redacted]				Water						
[redacted]				Water						
[redacted]				Water						
[redacted]				Water						
YMW-8	9/18/17	11:00	G	Water	6	N	N	3	3	
[redacted]				Water						
[redacted]				Water						
[redacted]				Water						
[redacted]				Water						
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____								2	2	

680-143184 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

(0.6(C+0.3)0.9

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____
Relinquished by:	Company: Eurofins	Date/Time: 9/19/17 1630	Received by:	Company: TA 9-18-17	Date/Time: 1630
Relinquished by:	Company: TA 9-18-17	Date/Time: 1632	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TASAV	Date/Time: 9/19/17 0700

TestAmerica Savannah
5102 LaRoche Avenue

Savannah, GA 31404-6019
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Rachel Andrews	Site Contact:	Date:	COC No:
Giant Cement	Tel/Fax: 770-973-2100 ext. 2857	Lab Contact: Jerry Lanier	Carrier:	____ of ____ COCs
654 Judge Street PO Box 218	Analysis Turnaround Time			Sampler:
Harleyville, SC 29448	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
803-496-2851 Phone	TAT if different from Below ____			Walk-in Client:
FAX	☐ 2 weeks			Lab Sampling:
Project Name: GCHI - SECHEM, INC.	☐ 1 week			
Site: SECHEM, INC.	☐ 2 days			Job / SDG No.:
P O # 316902	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	8260B (MOD) TCL OLM04.2+Naphthalene	8260B_SIM - 1,4-Dioxane	Sample Specific Notes:
YMW-14	9/18/17	13:35	G	Water	6	N	N	3	3	
~~YMW-15~~				Water						
~~YMW-16~~				Water						
YMW-17	9/18/17	10:05	G	Water	6	N	N	3	3	
YMW-18	9/18/17	9:50	G	Water	6	N	N	3	3	
~~YMW-19~~				Water						
TRIP BLANK	9/18/17	—	G	Water	4	N	N	2	2	
~~EQUIPMENT BLANK~~				Water						
~~DUP-1~~				Water						
~~DUP-2~~				Water						
				Water						
				Water						
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____								2	2	

680-143185 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

(0.6(C+4·3)0.9

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____
Relinquished by:	Company: Earthlon	Date/Time: 9/18/17 1630	Received by:	Company: 9-18-17	Date/Time: 1630
Relinquished by:	Company: 9-18-17	Date/Time: 1632	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 9/19/17 0700

1 2 3 4 5 6 7 8 9 10 11 12 **13** 14 15

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404-6019
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica — THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	**Project Manager:** Rachel Andrews	**Site Contact:**	**Date:**	COC No:
Giant Cement	**Tel/Fax:** 770-973-2100 ext. 2857	**Lab Contact:** Jerry Lanier	**Carrier:**	____ of ____ COCs
654 Judge Street PO Box 218	**Analysis Turnaround Time**			Sampler:
Harleyville, SC 29448	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
803-496-2851 Phone	TAT if different from Below ____			Walk-in Client:
FAX	☐ 2 weeks			Lab Sampling:
Project Name: GCHI - SECHEM, INC.	☐ 1 week			
Site: SECHEM, INC.	☐ 2 days			Job / SDG No.:
P O # 316902	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	8260B (MOD) TCL OLM04.2+Naphthalene	8260B_SIM - 1,4-Dioxane	Sample Specific Notes:
SW-1	9/18/17	14:45	G	Water	6	N	N	3	3	
SW-2	9/18/17	14:25	G	Water	6	N	N	3	3	
SW-3	9/18/17	13:50	G	Water	6	N	N	3	3	
SW-4	9/18/17	13:25	G	Water	6	N	N	3	3	
TRIP BLANK				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						

680-143186 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____ 2 2

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

①.6((4.0.3)0.9

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____
Relinquished by: Kent Hay	Company: Earth Con	Date/Time: 9/18/17 Kaz	Received by: [signature]	Company: 9-18-17	Date/Time: 1630
Relinquished by: [signature]	Company: 9-18-17	Date/Time: 1632	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TASA	Date/Time: 9/19/17 0700

Form No. CA-C-WI-002, Rev. 4.13, dated 9/1/2017

Login Sample Receipt Checklist

Client: Giant Cement

Job Number: 680-143183-1

Login Number: 143183
List Number: 1
Creator: Edwards, Jessica R

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Giant Cement

Job Number: 680-143183-1

Login Number: 143184
List Number: 1
Creator: Edwards, Jessica R

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Giant Cement

Job Number: 680-143183-1

Login Number: 143185
List Number: 1
Creator: Edwards, Jessica R

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Giant Cement

Job Number: 680-143183-1

Login Number: 143186
List Number: 1
Creator: Edwards, Jessica R

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-1

Laboratory: TestAmerica Savannah

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
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-18
Alaska	State Program	10		06-30-18
Alaska (UST)	State Program	10	UST-104	09-22-19
Arizona	State Program	9	AZ0808	12-14-18
Arkansas DEQ	State Program	6	88-0692	02-01-19
California	State Program	9	2939	06-30-18
Colorado	State Program	8	N/A	12-31-18
Connecticut	State Program	1	PH-0161	03-31-19
Florida	NELAP	4	E87052	06-30-18
GA Dept. of Agriculture	State Program	4	N/A	06-12-18
Georgia	State Program	4	803	06-30-18
Guam	State Program	9	15-005r	04-16-18
Hawaii	State Program	9	N/A	06-30-18
Illinois	NELAP	5	200022	11-30-18
Indiana	State Program	5	N/A	06-30-18
Iowa	State Program	7	353	06-30-19
Kentucky (DW)	State Program	4	90084	12-31-18
Kentucky (UST)	State Program	4	18	06-30-18
Kentucky (WW)	State Program	4	90084	12-31-18 *
L-A-B	DoD ELAP		L2463	09-22-19
L-A-B	ISO/IEC 17025		L2463.01	09-22-19
Louisiana	NELAP	6	30690	06-30-18
Louisiana (DW)	NELAP	6	LA160019	12-31-18
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-18
Massachusetts	State Program	1	M-GA006	06-30-18
Michigan	State Program	5	9925	06-30-18
Mississippi	State Program	4	N/A	06-30-18
Nebraska	State Program	7	TestAmerica-Savannah	06-30-18
New Jersey	NELAP	2	GA769	06-30-18
New Mexico	State Program	6	N/A	06-30-18
New York	NELAP	2	10842	03-31-18 *
North Carolina (DW)	State Program	4	13701	07-31-18
North Carolina (WW/SW)	State Program	4	269	12-31-18
Oklahoma	State Program	6	9984	08-31-18
Pennsylvania	NELAP	3	68-00474	06-30-18
Puerto Rico	State Program	2	GA00006	12-31-18
South Carolina	State Program	4	98001	06-30-18
Tennessee	State Program	4	TN02961	06-30-18
Texas	NELAP	6	T104704185-16-9	11-30-18
Texas	State Program	6	T104704185	06-30-18
US Fish & Wildlife	Federal		LE058448-0	07-31-18
USDA	Federal		SAV 3-04	06-14-20 *
Virginia	NELAP	3	460161	06-14-18
Washington	State Program	10	C805	06-10-18
West Virginia (DW)	State Program	3	9950C	12-31-18
West Virginia DEP	State Program	3	094	06-30-18
Wisconsin	State Program	5	999819810	08-31-18
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-143139-2
Client Project/Site: GCHI--SECHEM INC

For:
Giant Cement
654 Judge Street
PO BOX 218
Harleyville, South Carolina 29448

Attn: Rachel Odzer

Jerry Lanier

Authorized for release by:
9/28/2017 5:15:18 PM

Jerry Lanier, Project Manager I
(912)354-7858 e.3410
jerry.lanier@testamericainc.com

Table of Contents

Job ID: 680-143139-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Giant Cement

Project: GCHI--SECHEM INC

Report Number: 680-143139-2

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 the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 09/16/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples WMW-1 (680-143139-1), YMW-1 (680-143139-2), YMW-4 (680-143139-3), YMW-5 (680-143139-4), YMW-6 (680-143139-5), YMW-7 (680-143139-6), YMW-9 (680-143139-7), YMW-10 (680-143139-8), YMW-11 (680-143139-9), YMW-13 (680-143139-10), YMW-16 (680-143139-11), YMW-19 (680-143139-12), TRIP BLANK (680-143139-13), EQUIPMENT BLANK (680-143139-14), DUP-1 (680-143139-15), DUP-2 (680-143139-16), HMW-1 (680-143139-17), SMW-1 (680-143139-18), SMW-3 (680-143139-19), SMW-4 (680-143139-20), SRW-1 (680-143139-21) and TRIP BLANK (680-143139-22) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 09/20/2017 and 09/21/2017.

1,4-Dioxane was detected in method blank MB 240-295566/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. 1,4-Dioxane was detected in method blank MB 240-295718/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has 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.

Samples YMW-5 (680-143139-4)[5X], YMW-10 (680-143139-8)[2X], DUP-1 (680-143139-15)[5X] and DUP-2 (680-143139-16)[2X] 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.

Sample Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-143139-1	WMW-1	Water	09/14/17 14:15	09/16/17 08:50
680-143139-2	YMW-1	Water	09/14/17 10:18	09/16/17 08:50
680-143139-3	YMW-4	Water	09/14/17 10:45	09/16/17 08:50
680-143139-4	YMW-5	Water	09/14/17 13:31	09/16/17 08:50
680-143139-5	YMW-6	Water	09/15/17 09:45	09/16/17 08:50
680-143139-6	YMW-7	Water	09/15/17 12:25	09/16/17 08:50
680-143139-7	YMW-9	Water	09/15/17 10:25	09/16/17 08:50
680-143139-8	YMW-10	Water	09/15/17 11:50	09/16/17 08:50
680-143139-9	YMW-11	Water	09/15/17 10:55	09/16/17 08:50
680-143139-10	YMW-13	Water	09/14/17 16:21	09/16/17 08:50
680-143139-11	YMW-16	Water	09/15/17 13:08	09/16/17 08:50
680-143139-12	YMW-19	Water	09/13/17 16:15	09/16/17 08:50
680-143139-13	TRIP BLANK	Water	09/13/17 00:00	09/16/17 08:50
680-143139-14	EQUIPMENT BLANK	Water	09/14/17 18:25	09/16/17 08:50
680-143139-15	DUP-1	Water	09/14/17 00:00	09/16/17 08:50
680-143139-16	DUP-2	Water	09/15/17 00:00	09/16/17 08:50
680-143139-17	HMW-1	Water	09/13/17 15:40	09/16/17 08:50
680-143139-18	SMW-1	Water	09/14/17 16:10	09/16/17 08:50
680-143139-19	SMW-3	Water	09/14/17 17:45	09/16/17 08:50
680-143139-20	SMW-4	Water	09/13/17 17:10	09/16/17 08:50
680-143139-21	SRW-1	Water	09/14/17 18:24	09/16/17 08:50
680-143139-22	TRIP BLANK	Water	09/15/17 00:00	09/16/17 08:50

Method Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Method	Method Description	Protocol	Laboratory
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	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)

Detection Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: WMW-1 — Lab Sample ID: 680-143139-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.3	J B	2.0	0.24	ug/L	1		8260B SIM	Total/NA

Client Sample ID: YMW-1 — Lab Sample ID: 680-143139-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	65	B	2.0	0.24	ug/L	1		8260B SIM	Total/NA

Client Sample ID: YMW-4 — Lab Sample ID: 680-143139-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.68	J B	2.0	0.24	ug/L	1		8260B SIM	Total/NA

Client Sample ID: YMW-5 — Lab Sample ID: 680-143139-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	600	B	10	1.2	ug/L	5		8260B SIM	Total/NA

Client Sample ID: YMW-6 — Lab Sample ID: 680-143139-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	5.0	B	2.0	0.24	ug/L	1		8260B SIM	Total/NA

Client Sample ID: YMW-7 — Lab Sample ID: 680-143139-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	22	B	2.0	0.24	ug/L	1		8260B SIM	Total/NA

Client Sample ID: YMW-9 — Lab Sample ID: 680-143139-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.59	J B	2.0	0.24	ug/L	1		8260B SIM	Total/NA

Client Sample ID: YMW-10 — Lab Sample ID: 680-143139-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	220	B	4.0	0.48	ug/L	2		8260B SIM	Total/NA

Client Sample ID: YMW-11 — Lab Sample ID: 680-143139-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.4	J B	2.0	0.24	ug/L	1		8260B SIM	Total/NA

Client Sample ID: YMW-13 — Lab Sample ID: 680-143139-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	41	B	2.0	0.24	ug/L	1		8260B SIM	Total/NA

Client Sample ID: YMW-16 — Lab Sample ID: 680-143139-11

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah

Client Sample ID: YMW-16 (Continued) — Lab Sample ID: 680-143139-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	74	B	2.0	0.24	ug/L	1		8260B SIM	Total/NA

Client Sample ID: YMW-19 — Lab Sample ID: 680-143139-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	8.8	B	2.0	0.24	ug/L	1		8260B SIM	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 680-143139-13

No Detections.

Client Sample ID: EQUIPMENT BLANK — Lab Sample ID: 680-143139-14

No Detections.

Client Sample ID: DUP-1 — Lab Sample ID: 680-143139-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	600	B	10	1.2	ug/L	5		8260B SIM	Total/NA

Client Sample ID: DUP-2 — Lab Sample ID: 680-143139-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	220	B	4.0	0.48	ug/L	2		8260B SIM	Total/NA

Client Sample ID: HMW-1 — Lab Sample ID: 680-143139-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.1	J B	2.0	0.24	ug/L	1		8260B SIM	Total/NA

Client Sample ID: SMW-1 — Lab Sample ID: 680-143139-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.3	J B	2.0	0.24	ug/L	1		8260B SIM	Total/NA

Client Sample ID: SMW-3 — Lab Sample ID: 680-143139-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	190	B	2.0	0.24	ug/L	1		8260B SIM	Total/NA

Client Sample ID: SMW-4 — Lab Sample ID: 680-143139-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	4.0	B	2.0	0.24	ug/L	1		8260B SIM	Total/NA

Client Sample ID: SRW-1 — Lab Sample ID: 680-143139-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	28	B	2.0	0.24	ug/L	1		8260B SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: TRIP BLANK **Lab Sample ID: 680-143139-22**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: WMW-1
Date Collected: 09/14/17 14:15
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-1
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.3	J B	2.0	0.24	ug/L			09/20/17 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*63 - 125*		*09/20/17 16:33*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: YMW-1
Date Collected: 09/14/17 10:18
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-2
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	65	B	2.0	0.24	ug/L			09/20/17 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*63 - 125*		*09/20/17 16:58*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: YMW-4
Date Collected: 09/14/17 10:45
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-3
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.68	J B	2.0	0.24	ug/L			09/20/17 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*63 - 125*		*09/20/17 18:13*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: YMW-5
Date Collected: 09/14/17 13:31
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-4
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	600	B	10	1.2	ug/L			09/21/17 14:31	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*63 - 125*		*09/21/17 14:31*	*5*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: YMW-6
Date Collected: 09/15/17 09:45
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-5
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	5.0	B	2.0	0.24	ug/L			09/21/17 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*63 - 125*		*09/21/17 14:56*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: YMW-7
Date Collected: 09/15/17 12:25
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-6
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	22	B	2.0	0.24	ug/L			09/20/17 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*63 - 125*		*09/20/17 19:27*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: YMW-9
Date Collected: 09/15/17 10:25
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-7
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.59	J B	2.0	0.24	ug/L			09/20/17 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*63 - 125*		*09/20/17 19:52*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: YMW-10
Date Collected: 09/15/17 11:50
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-8
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	220	B	4.0	0.48	ug/L			09/21/17 15:21	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*63 - 125*		*09/21/17 15:21*	*2*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: YMW-11
Date Collected: 09/15/17 10:55
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-9
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.4	J B	2.0	0.24	ug/L			09/20/17 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*63 - 125*		*09/20/17 20:41*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: YMW-13
Date Collected: 09/14/17 16:21
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-10
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	41	B	2.0	0.24	ug/L			09/20/17 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*63 - 125*		*09/20/17 21:06*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: YMW-16
Date Collected: 09/15/17 13:08
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-11
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	74	B	2.0	0.24	ug/L			09/20/17 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*63 - 125*		*09/20/17 21:30*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: YMW-19
Date Collected: 09/13/17 16:15
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-12
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	8.8	B	2.0	0.24	ug/L			09/20/17 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*63 - 125*		*09/20/17 21:55*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: TRIP BLANK
Date Collected: 09/13/17 00:00
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-13
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.24	U	2.0	0.24	ug/L			09/20/17 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*63 - 125*		*09/20/17 15:43*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: EQUIPMENT BLANK
Date Collected: 09/14/17 18:25
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-14
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.24	U	2.0	0.24	ug/L			09/20/17 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*63 - 125*		*09/20/17 16:08*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: DUP-1
Date Collected: 09/14/17 00:00
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-15
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	600	B	10	1.2	ug/L			09/21/17 15:45	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*63 - 125*		*09/21/17 15:45*	*5*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: DUP-2
Date Collected: 09/15/17 00:00
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-16
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	220	B	4.0	0.48	ug/L			09/21/17 16:10	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*77*		*63 - 125*		*09/21/17 16:10*	*2*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: HMW-1
Date Collected: 09/13/17 15:40
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-17
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.1	J B	2.0	0.24	ug/L			09/21/17 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*63 - 125*		*09/21/17 16:36*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: SMW-1
Date Collected: 09/14/17 16:10
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-18
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.3	J B	2.0	0.24	ug/L			09/20/17 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*63 - 125*		*09/20/17 23:32*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: SMW-3
Date Collected: 09/14/17 17:45
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-19
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	190	B	2.0	0.24	ug/L			09/21/17 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*71*		*63 - 125*		*09/21/17 17:01*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: SMW-4
Date Collected: 09/13/17 17:10
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-20
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	4.0	B	2.0	0.24	ug/L			09/21/17 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*63 - 125*		*09/21/17 17:26*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: SRW-1
Date Collected: 09/14/17 18:24
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-21
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	28	B	2.0	0.24	ug/L			09/21/17 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*63 - 125*		*09/21/17 17:50*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: TRIP BLANK
Date Collected: 09/15/17 00:00
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-22
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.24	U	2.0	0.24	ug/L			09/21/17 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*63 - 125*		*09/21/17 14:06*	*1*

Surrogate Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	12DCE (63-125)							
680-143139-1	WMW-1	88							
680-143139-2	YMW-1	85							
680-143139-2 MS	YMW-1	86							
680-143139-2 MSD	YMW-1	86							
680-143139-3	YMW-4	87							
680-143139-4	YMW-5	79							
680-143139-5	YMW-6	89							
680-143139-6	YMW-7	79							
680-143139-7	YMW-9	85							
680-143139-8	YMW-10	78							
680-143139-9	YMW-11	85							
680-143139-10	YMW-13	78							
680-143139-11	YMW-16	80							
680-143139-12	YMW-19	79							
680-143139-13	TRIP BLANK	83							
680-143139-14	EQUIPMENT BLANK	88							
680-143139-15	DUP-1	79							
680-143139-16	DUP-2	77							
680-143139-17	HMW-1	86							
680-143139-18	SMW-1	83							
680-143139-19	SMW-3	71							
680-143139-20	SMW-4	86							
680-143139-21	SRW-1	78							
680-143139-22	TRIP BLANK	87							
LCS 240-295566/4	Lab Control Sample	85							
LCS 240-295718/4	Lab Control Sample	87							
MB 240-295566/5	Method Blank	86							
MB 240-295718/5	Method Blank	85							

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-295566/5
Matrix: Water
Analysis Batch: 295566

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.313	J	2.0	0.24	ug/L			09/20/17 14:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*63 - 125*		*09/20/17 14:04*	*1*

Lab Sample ID: LCS 240-295566/4
Matrix: Water
Analysis Batch: 295566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			10.0	7.49		ug/L		75	59 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*63 - 125*

Lab Sample ID: 680-143139-2 MS
Matrix: Water
Analysis Batch: 295566

Client Sample ID: YMW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane	65	B	10.0	74.4	4	ug/L		90	52 - 129		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*63 - 125*

Lab Sample ID: 680-143139-2 MSD
Matrix: Water
Analysis Batch: 295566

Client Sample ID: YMW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	65	B	10.0	76.2	4	ug/L		108	52 - 129	2	13

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*63 - 125*

Lab Sample ID: MB 240-295718/5
Matrix: Water
Analysis Batch: 295718

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.335	J	2.0	0.24	ug/L			09/21/17 13:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*63 - 125*		*09/21/17 13:16*	*1*

Method: 8260B SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-295718/4
Matrix: Water
Analysis Batch: 295718

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			10.0	7.05		ug/L		70	59 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*63 - 125*

GC/MS VOA

Analysis Batch: 295566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-143139-1	WMW-1	Total/NA	Water	8260B SIM	
680-143139-2	YMW-1	Total/NA	Water	8260B SIM	
680-143139-3	YMW-4	Total/NA	Water	8260B SIM	
680-143139-6	YMW-7	Total/NA	Water	8260B SIM	
680-143139-7	YMW-9	Total/NA	Water	8260B SIM	
680-143139-9	YMW-11	Total/NA	Water	8260B SIM	
680-143139-10	YMW-13	Total/NA	Water	8260B SIM	
680-143139-11	YMW-16	Total/NA	Water	8260B SIM	
680-143139-12	YMW-19	Total/NA	Water	8260B SIM	
680-143139-13	TRIP BLANK	Total/NA	Water	8260B SIM	
680-143139-14	EQUIPMENT BLANK	Total/NA	Water	8260B SIM	
680-143139-18	SMW-1	Total/NA	Water	8260B SIM	
MB 240-295566/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-295566/4	Lab Control Sample	Total/NA	Water	8260B SIM	
680-143139-2 MS	YMW-1	Total/NA	Water	8260B SIM	
680-143139-2 MSD	YMW-1	Total/NA	Water	8260B SIM	

Analysis Batch: 295718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-143139-4	YMW-5	Total/NA	Water	8260B SIM	
680-143139-5	YMW-6	Total/NA	Water	8260B SIM	
680-143139-8	YMW-10	Total/NA	Water	8260B SIM	
680-143139-15	DUP-1	Total/NA	Water	8260B SIM	
680-143139-16	DUP-2	Total/NA	Water	8260B SIM	
680-143139-17	HMW-1	Total/NA	Water	8260B SIM	
680-143139-19	SMW-3	Total/NA	Water	8260B SIM	
680-143139-20	SMW-4	Total/NA	Water	8260B SIM	
680-143139-21	SRW-1	Total/NA	Water	8260B SIM	
680-143139-22	TRIP BLANK	Total/NA	Water	8260B SIM	
MB 240-295718/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-295718/4	Lab Control Sample	Total/NA	Water	8260B SIM	

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: WMW-1
Lab Sample ID: 680-143139-1
Date Collected: 09/14/17 14:15
Matrix: Water
Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	295566	09/20/17 16:33	SAM	TAL CAN

Client Sample ID: YMW-1
Lab Sample ID: 680-143139-2
Date Collected: 09/14/17 10:18
Matrix: Water
Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	295566	09/20/17 16:58	SAM	TAL CAN

Client Sample ID: YMW-4
Lab Sample ID: 680-143139-3
Date Collected: 09/14/17 10:45
Matrix: Water
Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	295566	09/20/17 18:13	SAM	TAL CAN

Client Sample ID: YMW-5
Lab Sample ID: 680-143139-4
Date Collected: 09/14/17 13:31
Matrix: Water
Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		5	295718	09/21/17 14:31	SAM	TAL CAN

Client Sample ID: YMW-6
Lab Sample ID: 680-143139-5
Date Collected: 09/15/17 09:45
Matrix: Water
Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	295718	09/21/17 14:56	SAM	TAL CAN

Client Sample ID: YMW-7
Lab Sample ID: 680-143139-6
Date Collected: 09/15/17 12:25
Matrix: Water
Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	295566	09/20/17 19:27	SAM	TAL CAN

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: YMW-9

Date Collected: 09/15/17 10:25
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	295566	09/20/17 19:52	SAM	TAL CAN

Client Sample ID: YMW-10

Date Collected: 09/15/17 11:50
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		2	295718	09/21/17 15:21	SAM	TAL CAN

Client Sample ID: YMW-11

Date Collected: 09/15/17 10:55
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	295566	09/20/17 20:41	SAM	TAL CAN

Client Sample ID: YMW-13

Date Collected: 09/14/17 16:21
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	295566	09/20/17 21:06	SAM	TAL CAN

Client Sample ID: YMW-16

Date Collected: 09/15/17 13:08
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	295566	09/20/17 21:30	SAM	TAL CAN

Client Sample ID: YMW-19

Date Collected: 09/13/17 16:15
Date Received: 09/16/17 08:50

Lab Sample ID: 680-143139-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	295566	09/20/17 21:55	SAM	TAL CAN

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: TRIP BLANK — Lab Sample ID: 680-143139-13

Date Collected: 09/13/17 00:00 — **Matrix: Water**
Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	295566	09/20/17 15:43	SAM	TAL CAN

Client Sample ID: EQUIPMENT BLANK — Lab Sample ID: 680-143139-14

Date Collected: 09/14/17 18:25 — **Matrix: Water**
Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	295566	09/20/17 16:08	SAM	TAL CAN

Client Sample ID: DUP-1 — Lab Sample ID: 680-143139-15

Date Collected: 09/14/17 00:00 — **Matrix: Water**
Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		5	295718	09/21/17 15:45	SAM	TAL CAN

Client Sample ID: DUP-2 — Lab Sample ID: 680-143139-16

Date Collected: 09/15/17 00:00 — **Matrix: Water**
Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		2	295718	09/21/17 16:10	SAM	TAL CAN

Client Sample ID: HMW-1 — Lab Sample ID: 680-143139-17

Date Collected: 09/13/17 15:40 — **Matrix: Water**
Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	295718	09/21/17 16:36	SAM	TAL CAN

Client Sample ID: SMW-1 — Lab Sample ID: 680-143139-18

Date Collected: 09/14/17 16:10 — **Matrix: Water**
Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	295566	09/20/17 23:32	SAM	TAL CAN

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Client Sample ID: SMW-3

Lab Sample ID: 680-143139-19

Date Collected: 09/14/17 17:45

Matrix: Water

Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	295718	09/21/17 17:01	SAM	TAL CAN

Client Sample ID: SMW-4

Lab Sample ID: 680-143139-20

Date Collected: 09/13/17 17:10

Matrix: Water

Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	295718	09/21/17 17:26	SAM	TAL CAN

Client Sample ID: SRW-1

Lab Sample ID: 680-143139-21

Date Collected: 09/14/17 18:24

Matrix: Water

Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	295718	09/21/17 17:50	SAM	TAL CAN

Client Sample ID: TRIP BLANK

Lab Sample ID: 680-143139-22

Date Collected: 09/15/17 00:00

Matrix: Water

Date Received: 09/16/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	295718	09/21/17 14:06	SAM	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

4.6/4.6

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 680-490861.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jerry.lanier@testamericainc.com	State of Origin: Georgia	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida		Job #: 680-143139-2
Address: 4101 Shuffel Street NW,	Due Date Requested: 9/28/2017			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: GCHI--SECHEM INC	Project #: 68002623			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_SIM/5030B (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:						MS
WMW-1 (680-143139-1)	9/14/17	14:15 Eastern		Water			X	3	
YMW-1 (680-143139-2)	9/14/17	10:18 Eastern		Water			X	3	
YMW-4 (680-143139-3)	9/14/17	10:45 Eastern		Water			X	3	
YMW-5 (680-143139-4)	9/14/17	13:31 Eastern		Water			X	3	
YMW-6 (680-143139-5)	9/15/17	09:45 Eastern		Water			X	3	
YMW-7 (680-143139-6)	9/15/17	12:25 Eastern		Water			X	3	
YMW-9 (680-143139-7)	9/15/17	10:25 Eastern		Water			X	3	
YMW-10 (680-143139-8)	9/15/17	11:50 Eastern		Water			X	3	
YMW-11 (680-143139-9)	9/15/17	10:55 Eastern		Water			X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	09/18/17 1507			9.19.17 915	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 680-490861.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: jerry.lanier@testamericainc.com	State of Origin: Georgia	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida		Job #: 680-143139-2
Address: 4101 Shuffel Street NW,	Due Date Requested: 9/28/2017			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: GCHI--SECHEM INC	Project #: 68002623			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_SIM/5030B (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
YMW-13 (680-143139-10)	9/14/17	16:21 Eastern		Water			X	3	
YMW-16 (680-143139-11)	9/15/17	13:08 Eastern		Water			X	3	
YMW-19 (680-143139-12)	9/13/17	16:15 Eastern		Water			X	3	
TRIP BLANK (680-143139-13)	9/13/17	Eastern		Water			X	2	
EQUIPMENT BLANK (680-143139-14)	9/14/17	18:25 Eastern		Water			X	3	
DUP-1 (680-143139-15)	9/14/17	Eastern		Water			X	3	
DUP-2 (680-143139-16)	9/15/17	Eastern		Water			X	3	
HMW-1 (680-143139-17)	9/13/17	15:40 Eastern		Water			X	3	
SMW-1 (680-143139-18)	9/14/17	16:10 Eastern		Water			X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		09/18/17 1507	SAV		9.19.17 915	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 680-490861.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: jerry.lanier@testamericainc.com	State of Origin: Georgia	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida		Job #: 680-143139-2
Address: 4101 Shuffel Street NW,	Due Date Requested: 9/28/2017			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: GCHI--SECHEM INC	Project #: 68002623			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_SIM/5030B (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SMW-3 (680-143139-19)	9/14/17	17:45 Eastern		Water			X	3	
SMW-4 (680-143139-20)	9/13/17	17:10 Eastern		Water			X	3	
SRW-1 (680-143139-21)	9/14/17	18:24 Eastern		Water			X	3	
TRIP BLANK (680-143139-22)	9/15/17	Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 09-18-17 1507	Company: SAV	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

9/28/2017

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** _____
Canton Facility

Client Savannah Site Name _____ Cooler unpacked by:

Cooler Received on 9-19-17 Opened on 9-19-17

FedEx: 1st Grd ~~Exp~~ UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box ~~Client Cooler~~ Box Other _____

Packing material used: ~~Bubble Wrap~~ Foam ~~Plastic Bag~~ None Other _____

COOLANT: ~~Wet Ice~~ Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# IR-8 (CF **+0** °C) Observed Cooler Temp. 4.6 °C Corrected Cooler Temp. 4.6 °C
IR GUN #36 (CF **+0.3**°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
IR GUN # 627 (CF **-1.3**°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	~~Yes~~ No	
-Were the seals on the outside of the cooler(s) signed & dated?	~~Yes~~ No	NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes ~~No~~	NA
-Were tamper/custody seals intact and uncompromised?	~~Yes~~ No	NA
3. Shippers' packing slip attached to the cooler(s)?	~~Yes~~ No	
4. Did custody papers accompany the sample(s)?	~~Yes~~ No	
5. Were the custody papers relinquished & signed in the appropriate place?	~~Yes~~ No	
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes ~~No~~	
7. Did all bottles arrive in good condition (Unbroken)?	~~Yes~~ No	
8. Could all bottle labels be reconciled with the COC?	~~Yes~~ No	
9. Were correct bottle(s) used for the test(s) indicated?	~~Yes~~ No	
10. Sufficient quantity received to perform indicated analyses?	~~Yes~~ No	
11. Are these work share samples?	~~Yes~~ No	
If yes, Questions 11-15 have been checked at the originating laboratory.		
11. Were all preserved sample(s) at the correct pH upon receipt?	Yes No	NA pH Strip Lot# **HC697954**
12. Were VOAs on the COC?	Yes No	
13. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes ~~No~~	NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes No	
15. Was a LL Hg or Me Hg trip blank present? _____	Yes No	

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

17. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

Login Sample Receipt Checklist

Client: Giant Cement

Job Number: 680-143139-2

Login Number: 143139

List Source: TestAmerica Savannah

List Number: 1

Creator: Banda, Christy S

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143139-2

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E87052	06-30-18

Laboratory: TestAmerica Canton

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
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-143183-2
Client Project/Site: GCHI--SECHEM INC

For:
Giant Cement
654 Judge Street
PO BOX 218
Harleyville, South Carolina 29448

Attn: Rachel Odzer

Authorized for release by:
9/30/2017 6:56:41 PM
Michele Kersey, Project Manager II
(912)354-7858
michele.kersey@testamericainc.com

Designee for

Jerry Lanier, Project Manager I
(912)354-7858 e.3410
jerry.lanier@testamericainc.com

Table of Contents

Job ID: 680-143183-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Giant Cement

Project: GCHI--SECHEM INC

Report Number: 680-143183-2

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 the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 9/19/2017 7:00 AM, 9/19/2017 8:50 AM and 9/19/2017 8:52 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.9º C, 0.9º C, 0.9º C and 0.9º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples SMW-2 (680-143183-1), YMW-2 (680-143184-1), YMW-14 (680-143185-1), SW-1 (680-143186-1), YMW-8 (680-143184-2), YMW-17 (680-143185-2), SW-2 (680-143186-2), YMW-18 (680-143185-3), SW-3 (680-143186-3), Trip Blank (680-143185-4), SW-4 (680-143186-4) and Trip Blank (680-143186-5) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 09/27/2017, 09/28/2017, 09/29/2017 and 09/30/2017.

Samples YMW-2 (680-143184-1)[5X], SMW-2 (680-143184-1)[50X], SW-1 (680-143184-1)[50X], SW-2 (680-143184-2)[5X] and SW-3 (680-143184-3)[5X] 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.

Sample Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-143183-1	SMW-2	Water	09/18/17 12:30	09/19/17 07:00
680-143184-1	YMW-2	Water	09/18/17 11:55	09/19/17 07:00
680-143184-2	YMW-8	Water	09/18/17 11:00	09/19/17 07:00
680-143185-1	YMW-14	Water	09/18/17 13:35	09/19/17 08:50
680-143185-2	YMW-17	Water	09/18/17 10:05	09/19/17 08:50
680-143185-3	YMW-18	Water	09/18/17 09:50	09/19/17 08:50
680-143185-4	Trip Blank	Water	09/18/17 00:00	09/19/17 08:50
680-143186-1	SW-1	Water	09/18/17 14:45	09/19/17 08:52
680-143186-2	SW-2	Water	09/18/17 14:25	09/19/17 08:52
680-143186-3	SW-3	Water	09/18/17 13:50	09/19/17 08:52
680-143186-4	SW-4	Water	09/18/17 13:25	09/19/17 08:52
680-143186-5	Trip Blank	Water	09/18/17 00:00	09/19/17 08:52

Method Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Method	Method Description	Protocol	Laboratory
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	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)

Detection Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Client Sample ID: SMW-2 — Lab Sample ID: 680-143183-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	220		50	13	ug/L	50		8260B SIM	Total/NA

Client Sample ID: YMW-2 — Lab Sample ID: 680-143184-1

No Detections.

Client Sample ID: YMW-8 — Lab Sample ID: 680-143184-2

No Detections.

Client Sample ID: YMW-14 — Lab Sample ID: 680-143185-1

No Detections.

Client Sample ID: YMW-17 — Lab Sample ID: 680-143185-2

No Detections.

Client Sample ID: YMW-18 — Lab Sample ID: 680-143185-3

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 680-143185-4

No Detections.

Client Sample ID: SW-1 — Lab Sample ID: 680-143186-1

No Detections.

Client Sample ID: SW-2 — Lab Sample ID: 680-143186-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	34		5.0	1.3	ug/L	5		8260B SIM	Total/NA

Client Sample ID: SW-3 — Lab Sample ID: 680-143186-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	16		5.0	1.3	ug/L	5		8260B SIM	Total/NA

Client Sample ID: SW-4 — Lab Sample ID: 680-143186-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	11		1.0	0.25	ug/L	1		8260B SIM	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 680-143186-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Client Sample ID: SMW-2
Date Collected: 09/18/17 12:30
Date Received: 09/19/17 07:00

Lab Sample ID: 680-143183-1
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	220		50	13	ug/L			09/29/17 17:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*09/29/17 17:43*	*50*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*09/29/17 17:43*	*50*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*09/29/17 17:43*	*50*
Toluene-d8 (Surr)	*84*		*70 - 130*		*09/29/17 17:43*	*50*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Client Sample ID: YMW-2
Date Collected: 09/18/17 11:55
Date Received: 09/19/17 07:00

Lab Sample ID: 680-143184-1
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.3	U	5.0	1.3	ug/L			09/29/17 20:27	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*09/29/17 20:27*	*5*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/29/17 20:27*	*5*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*09/29/17 20:27*	*5*
Toluene-d8 (Surr)	*84*		*70 - 130*		*09/29/17 20:27*	*5*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Client Sample ID: YMW-8
Date Collected: 09/18/17 11:00
Date Received: 09/19/17 07:00

Lab Sample ID: 680-143184-2
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.25	U	1.0	0.25	ug/L			09/28/17 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*09/28/17 16:36*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/28/17 16:36*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*09/28/17 16:36*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*09/28/17 16:36*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Client Sample ID: YMW-14
Date Collected: 09/18/17 13:35
Date Received: 09/19/17 08:50

Lab Sample ID: 680-143185-1
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.25	U	1.0	0.25	ug/L			09/30/17 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*09/30/17 00:33*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*09/30/17 00:33*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*09/30/17 00:33*	*1*
Toluene-d8 (Surr)	*84*		*70 - 130*		*09/30/17 00:33*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Client Sample ID: YMW-17
Date Collected: 09/18/17 10:05
Date Received: 09/19/17 08:50

Lab Sample ID: 680-143185-2
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.25	U	1.0	0.25	ug/L			09/28/17 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*09/28/17 16:08*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/28/17 16:08*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*09/28/17 16:08*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*09/28/17 16:08*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Client Sample ID: YMW-18
Date Collected: 09/18/17 09:50
Date Received: 09/19/17 08:50

Lab Sample ID: 680-143185-3
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.25	U	1.0	0.25	ug/L			09/27/17 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*09/27/17 16:48*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/27/17 16:48*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*09/27/17 16:48*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*09/27/17 16:48*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Client Sample ID: Trip Blank
Date Collected: 09/18/17 00:00
Date Received: 09/19/17 08:50

Lab Sample ID: 680-143185-4
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.25	U	1.0	0.25	ug/L			09/27/17 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*09/27/17 15:54*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*09/27/17 15:54*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*09/27/17 15:54*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*09/27/17 15:54*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Client Sample ID: SW-1
Date Collected: 09/18/17 14:45
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-1
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	13	U	50	13	ug/L			09/29/17 19:05	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*09/29/17 19:05*	*50*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*09/29/17 19:05*	*50*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*09/29/17 19:05*	*50*
Toluene-d8 (Surr)	*84*		*70 - 130*		*09/29/17 19:05*	*50*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Client Sample ID: SW-2
Date Collected: 09/18/17 14:25
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-2
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	34		5.0	1.3	ug/L			09/29/17 21:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*09/29/17 21:49*	*5*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*09/29/17 21:49*	*5*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*09/29/17 21:49*	*5*
Toluene-d8 (Surr)	*84*		*70 - 130*		*09/29/17 21:49*	*5*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Client Sample ID: SW-3
Date Collected: 09/18/17 13:50
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-3
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	16		5.0	1.3	ug/L			09/29/17 23:10	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/29/17 23:10*	*5*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*09/29/17 23:10*	*5*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*09/29/17 23:10*	*5*
Toluene-d8 (Surr)	*84*		*70 - 130*		*09/29/17 23:10*	*5*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Client Sample ID: SW-4
Date Collected: 09/18/17 13:25
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-4
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	11		1.0	0.25	ug/L			09/28/17 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*09/28/17 17:03*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/28/17 17:03*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*09/28/17 17:03*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*09/28/17 17:03*	*1*

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Client Sample ID: Trip Blank
Date Collected: 09/18/17 00:00
Date Received: 09/19/17 08:52

Lab Sample ID: 680-143186-5
Matrix: Water

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.25	U	1.0	0.25	ug/L			09/27/17 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*09/27/17 16:21*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/27/17 16:21*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*09/27/17 16:21*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*09/27/17 16:21*	*1*

Surrogate Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
680-143183-1	SMW-2	94	97	99	84
680-143184-1	YMW-2	101	99	99	84
680-143184-2	YMW-8	104	101	103	90
680-143185-1	YMW-14	102	96	101	84
680-143185-2	YMW-17	104	100	103	91
680-143185-2 MS	YMW-17	94	100	99	88
680-143185-2 MSD	YMW-17	95	99	101	87
680-143185-3	YMW-18	106	101	104	93
680-143185-3 MS	YMW-18	95	97	101	88
680-143185-3 MSD	YMW-18	95	99	100	88
680-143185-4	Trip Blank	104	102	105	93
680-143186-1	SW-1	102	97	101	84
680-143186-2	SW-2	92	98	100	84
680-143186-3	SW-3	95	98	99	84
680-143186-4	SW-4	98	100	102	90
680-143186-5	Trip Blank	105	101	104	92
LCS 490-463430/6	Lab Control Sample	98	99	106	94
LCS 490-463795/5	Lab Control Sample	97	101	102	92
LCS 490-464165/5	Lab Control Sample	95	99	101	85
LCSD 490-463430/7	Lab Control Sample Dup	99	101	105	94
LCSD 490-463795/6	Lab Control Sample Dup	98	101	104	92
LCSD 490-464165/6	Lab Control Sample Dup	94	99	100	86
MB 490-463430/10	Method Blank	106	102	106	92
MB 490-463795/9	Method Blank	106	101	102	92
MB 490-464165/9	Method Blank	101	99	98	85

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-463430/10
Matrix: Water
Analysis Batch: 463430

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.25	U	1.0	0.25	ug/L			09/27/17 15:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*09/27/17 15:16*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*09/27/17 15:16*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*09/27/17 15:16*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*09/27/17 15:16*	*1*

Lab Sample ID: LCS 490-463430/6
Matrix: Water
Analysis Batch: 463430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			5.00	5.37		ug/L		107	18 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 490-463430/7
Matrix: Water
Analysis Batch: 463430

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			5.00	5.80		ug/L		116	18 - 150	8	34

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: MB 490-463795/9
Matrix: Water
Analysis Batch: 463795

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.25	U	1.0	0.25	ug/L			09/28/17 15:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*09/28/17 15:37*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/28/17 15:37*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*09/28/17 15:37*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*09/28/17 15:37*	*1*

Method: 8260B SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-463795/5
Matrix: Water
Analysis Batch: 463795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			5.00	5.80		ug/L		116	18 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 490-463795/6
Matrix: Water
Analysis Batch: 463795

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			5.00	6.00		ug/L		120	18 - 150	3	34

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*92*		*70 - 130*

Lab Sample ID: 680-143185-2 MS
Matrix: Water
Analysis Batch: 463795

Client Sample ID: YMW-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane	0.25	U	5.00	5.05		ug/L		101	40 - 160		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*88*		*70 - 130*

Lab Sample ID: 680-143185-2 MSD
Matrix: Water
Analysis Batch: 463795

Client Sample ID: YMW-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	0.25	U	5.00	5.70		ug/L		114	40 - 160	12	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*87*		*70 - 130*

Method: 8260B SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-143185-3 MS
Matrix: Water
Analysis Batch: 463795

Client Sample ID: YMW-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.25	U	5.00	2.71		ug/L		54	40 - 160

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*88*		*70 - 130*

Lab Sample ID: 680-143185-3 MSD
Matrix: Water
Analysis Batch: 463795

Client Sample ID: YMW-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	0.25	U	5.00	5.48	F2	ug/L		110	40 - 160	68	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*88*		*70 - 130*

Lab Sample ID: MB 490-464165/9
Matrix: Water
Analysis Batch: 464165

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.25	U	1.0	0.25	ug/L			09/29/17 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*09/29/17 17:15*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/29/17 17:15*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*09/29/17 17:15*	*1*
Toluene-d8 (Surr)	*85*		*70 - 130*		*09/29/17 17:15*	*1*

Lab Sample ID: LCS 490-464165/5
Matrix: Water
Analysis Batch: 464165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane			5.00	5.19		ug/L		104	18 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*85*		*70 - 130*

Method: 8260B SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-464165/6
Matrix: Water
Analysis Batch: 464165

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			5.00	5.76		ug/L		115	18 - 150	10	34

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*86*		*70 - 130*

QC Association Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

GC/MS VOA

Analysis Batch: 463430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-143185-3	YMW-18	Total/NA	Water	8260B SIM	
680-143185-4	Trip Blank	Total/NA	Water	8260B SIM	
680-143186-5	Trip Blank	Total/NA	Water	8260B SIM	
MB 490-463430/10	Method Blank	Total/NA	Water	8260B SIM	
LCS 490-463430/6	Lab Control Sample	Total/NA	Water	8260B SIM	
LCSD 490-463430/7	Lab Control Sample Dup	Total/NA	Water	8260B SIM	

Analysis Batch: 463795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-143184-2	YMW-8	Total/NA	Water	8260B SIM	
680-143185-2	YMW-17	Total/NA	Water	8260B SIM	
680-143186-4	SW-4	Total/NA	Water	8260B SIM	
MB 490-463795/9	Method Blank	Total/NA	Water	8260B SIM	
LCS 490-463795/5	Lab Control Sample	Total/NA	Water	8260B SIM	
LCSD 490-463795/6	Lab Control Sample Dup	Total/NA	Water	8260B SIM	
680-143185-2 MS	YMW-17	Total/NA	Water	8260B SIM	
680-143185-2 MSD	YMW-17	Total/NA	Water	8260B SIM	
680-143185-3 MS	YMW-18	Total/NA	Water	8260B SIM	
680-143185-3 MSD	YMW-18	Total/NA	Water	8260B SIM	

Analysis Batch: 464165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-143183-1	SMW-2	Total/NA	Water	8260B SIM	
680-143184-1	YMW-2	Total/NA	Water	8260B SIM	
680-143185-1	YMW-14	Total/NA	Water	8260B SIM	
680-143186-1	SW-1	Total/NA	Water	8260B SIM	
680-143186-2	SW-2	Total/NA	Water	8260B SIM	
680-143186-3	SW-3	Total/NA	Water	8260B SIM	
MB 490-464165/9	Method Blank	Total/NA	Water	8260B SIM	
LCS 490-464165/5	Lab Control Sample	Total/NA	Water	8260B SIM	
LCSD 490-464165/6	Lab Control Sample Dup	Total/NA	Water	8260B SIM	

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Client Sample ID: SMW-2
Date Collected: 09/18/17 12:30
Date Received: 09/19/17 07:00

Lab Sample ID: 680-143183-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		50	464165	09/29/17 17:43	JRV	TAL NSH

Client Sample ID: YMW-2
Date Collected: 09/18/17 11:55
Date Received: 09/19/17 07:00

Lab Sample ID: 680-143184-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		5	464165	09/29/17 20:27	JRV	TAL NSH

Client Sample ID: YMW-8
Date Collected: 09/18/17 11:00
Date Received: 09/19/17 07:00

Lab Sample ID: 680-143184-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	463795	09/28/17 16:36	JRV	TAL NSH

Client Sample ID: YMW-14
Date Collected: 09/18/17 13:35
Date Received: 09/19/17 08:50

Lab Sample ID: 680-143185-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	464165	09/30/17 00:33	JRV	TAL NSH

Client Sample ID: YMW-17
Date Collected: 09/18/17 10:05
Date Received: 09/19/17 08:50

Lab Sample ID: 680-143185-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	463795	09/28/17 16:08	JRV	TAL NSH

Client Sample ID: YMW-18
Date Collected: 09/18/17 09:50
Date Received: 09/19/17 08:50

Lab Sample ID: 680-143185-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	463430	09/27/17 16:48	JRV	TAL NSH

Lab Chronicle

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Client Sample ID: Trip Blank — Lab Sample ID: 680-143185-4

Date Collected: 09/18/17 00:00 — **Matrix: Water**
Date Received: 09/19/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	463430	09/27/17 15:54	JRV	TAL NSH

Client Sample ID: SW-1 — Lab Sample ID: 680-143186-1

Date Collected: 09/18/17 14:45 — **Matrix: Water**
Date Received: 09/19/17 08:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		50	464165	09/29/17 19:05	JRV	TAL NSH

Client Sample ID: SW-2 — Lab Sample ID: 680-143186-2

Date Collected: 09/18/17 14:25 — **Matrix: Water**
Date Received: 09/19/17 08:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		5	464165	09/29/17 21:49	JRV	TAL NSH

Client Sample ID: SW-3 — Lab Sample ID: 680-143186-3

Date Collected: 09/18/17 13:50 — **Matrix: Water**
Date Received: 09/19/17 08:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		5	464165	09/29/17 23:10	JRV	TAL NSH

Client Sample ID: SW-4 — Lab Sample ID: 680-143186-4

Date Collected: 09/18/17 13:25 — **Matrix: Water**
Date Received: 09/19/17 08:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	463795	09/28/17 17:03	JRV	TAL NSH

Client Sample ID: Trip Blank — Lab Sample ID: 680-143186-5

Date Collected: 09/18/17 00:00 — **Matrix: Water**
Date Received: 09/19/17 08:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	463430	09/27/17 16:21	JRV	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica Savannah
5102 LaRoche Avenue

Savannah, GA 31404-6019
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Rachel Andrews	Site Contact:	Date:	COC No:
Giant Cement	Tel/Fax: 770-973-2100 ext. 2857	Lab Contact: Jerry Lanier	Carrier:	_____ of _____ COCs
654 Judge Street PO Box 218	Analysis Turnaround Time			Sampler:
Harleyville, SC 29448	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
803-496-2851 Phone	TAT if different from Below _____			Walk-in Client:
FAX	☐ 2 weeks			Lab Sampling:
Project Name: GCHI - SECHEM, INC.	☐ 1 week			
Site: SECHEM, INC.	☐ 2 days			Job / SDG No.:
P O # 316902	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	8260B (MOD) TCL OLM04.2+Naphthalene	8260B_SIM - 1,4-Dioxane	Sample Specific Notes:
~~SMW-1~~				Water						
SMW-2	9/18/17	12:30	G	Water	6	N	N	3	3	
~~SMW-3~~				Water						
~~SMW-4~~				Water						
~~SMW-1~~				Water						
~~TRIP BLANK~~				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____								2	2	

680-143183 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

0.6(CF+0.3)0.9

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Earthlon	Date/Time: 9/18/17 1630	Received by:	Company: TA	Date/Time: 9-18-17 1630
Relinquished by:	Company: TA 9-18-17	Date/Time: 1632	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL	Date/Time: 9/19/17 0700

Form No. CA-C-WI-002, Rev. 4.13, dated 9/1/2017

TestAmerica Savannah
5102 LaRoche Avenue

Savannah, GA 31404-6019
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Rachel Andrews	Site Contact:	Date:	COC No:
Giant Cement	Tel/Fax: 770-973-2100 ext. 2857	Lab Contact: Jerry Lanier	Carrier:	____ of ____ COCs
654 Judge Street PO Box 218	**Analysis Turnaround Time**			Sampler:
Harleyville, SC 29448	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
803-496-2851 Phone	TAT if different from Below ____			Walk-in Client:
FAX	☐ 2 weeks			Lab Sampling:
Project Name: GCHI - SECHEM, INC.	☐ 1 week			
Site: SECHEM, INC.	☐ 2 days			Job / SDG No.:
P O # 316902	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	8260B (MOD) TCL OLM04.2+Naphthalene	8260B_SIM - 1,4-Dioxane	Sample Specific Notes:
~~YMW-1~~				Water						
~~YMW-1~~				Water						
YMW-2	9/18/17	11:55	G	Water	6	N	N	3	3	
~~YMW-4~~				Water						
~~YMW-5~~				Water						
~~YMW-6~~				Water						
~~YMW-7~~				Water						
YMW-8	9/18/17	11:00	G	Water	6	N	N	3	3	
~~YMW-9~~				Water						
~~YMW-10~~				Water						
~~YMW-11~~				Water						
~~YMW-12~~				Water						
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____								2	2	

680-143184 Chain of Custody

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Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

(0.6(C+0.3)0.9

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____
Relinquished by:	Company: Eurofins	Date/Time: 9/18/17 1630	Received by:	Company: TA 9-18-17	Date/Time: 1630
Relinquished by:	Company: TA 9-18-17	Date/Time: 1632	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 9/19/17 0700

TestAmerica Savannah
5102 LaRoche Avenue

Savannah, GA 31404-6019
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Rachel Andrews	Site Contact:	Date:	COC No:
Giant Cement	Tel/Fax: 770-973-2100 ext. 2857	Lab Contact: Jerry Lanier	Carrier:	____ of ____ COCs
654 Judge Street PO Box 218	Analysis Turnaround Time			Sampler:
Harleyville, SC 29448	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
803-496-2851 Phone	TAT if different from Below ____			Walk-in Client:
FAX	☐ 2 weeks			Lab Sampling:
Project Name: GCHI - SECHEM, INC.	☐ 1 week			
Site: SECHEM, INC.	☐ 2 days			Job / SDG No.:
P O # 316902	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	8260B (MOD) TCL OLM04.2+Naphthalene	8260B_SIM - 1,4-Dioxane	Sample Specific Notes:
YMW-14	9/18/17	13:35	G	Water	6	N	N	3	3	
~~YMW-15~~				Water						
~~YMW-16~~				Water						
YMW-17	9/18/17	10:05	G	Water	6	N	N	3	3	
YMW-18	9/18/17	9:50	G	Water	6	N	N	3	3	
~~YMW-19~~				Water						
TRIP BLANK	9/18/17	—	G	Water	4	N	N	2	2	
~~EQUIPMENT BLANK~~				Water						
~~DUP-1~~				Water						
~~DUP-2~~				Water						
				Water						
				Water						
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____								2	2	

680-143185 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

(0.6(C+4·3)0.9

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____
Relinquished by:	Company: EarthCon	Date/Time: 9/18/17 1630	Received by:	Company: 9-18-17	Date/Time: 1630
Relinquished by:	Company: 9-18-17	Date/Time: 1632	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 9/19/17 0700

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404-6019
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	**Project Manager:** Rachel Andrews	**Site Contact:**	**Date:**	COC No:
Giant Cement	**Tel/Fax:** 770-973-2100 ext. 2857	**Lab Contact:** Jerry Lanier	**Carrier:**	____ of ____ COCs
654 Judge Street PO Box 218	**Analysis Turnaround Time**			Sampler:
Harleyville, SC 29448	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
803-496-2851 Phone	TAT if different from Below ____			Walk-in Client:
FAX	☐ 2 weeks			Lab Sampling:
Project Name: GCHI - SECHEM, INC.	☐ 1 week			
Site: SECHEM, INC.	☐ 2 days			Job / SDG No.:
P O # 316902	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	8260B (MOD) TCL OLM04.2+Naphthalene	8260B_SIM - 1,4-Dioxane	Sample Specific Notes:
SW-1	9/18/17	14:45	G	Water	6	N	N	3	3	
SW-2	9/18/17	14:25	G	Water	6	N	N	3	3	
SW-3	9/18/17	13:50	G	Water	6	N	N	3	3	
SW-4	9/18/17	13:25	G	Water	6	N	N	3	3	
TRIP BLANK				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								2	2	

680-143186 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
①6.6/6.3/0.9

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____
Relinquished by: [signature]	Company: Earth Con	Date/Time: 9/18/17	Received by: [signature]	Company: 9-18-17	Date/Time: 1630
Relinquished by: [signature]	Company: 9-18-17	Date/Time: 1632	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TA SAV	Date/Time: 9/19/17 0700

Form No. CA-C-WI-002, Rev. 4.13, dated 9/1/2017

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

680-143183 Chain of Custody

Cooler Received/Opened On 9/20/2017 @0940

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 7809 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 14740456 pH Strip Lot_____ Chlorine Strip Lot_____

2. Temperature of rep. sample or temp blank when opened: 3.2 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) es

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) es

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) es

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) es

I certify that I attached a label with the unique LIMS number to each container (intial) es

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# es

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

680-143183

TestAmerica
LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A		.072.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jerry.lanier@testamericainc.com	State of Origin: South Carolina	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - Florida		Job #: 680-143183-2
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 9/29/2017			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: GCHI--SECHEM INC	Project #: 68002623			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_SIM/5030B (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SMW-2 (680-143183-1)	9/18/17	12:30 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
YMW-2 (680-143184-1)	9/18/17	11:55 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
YMW-8 (680-143184-2)	9/18/17	11:00 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
YMW-14 (680-143185-1)	9/18/17	13:35 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
YMW-17 (680-143185-2)	9/18/17	10:05 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
YMW-18 (680-143185-3)	9/18/17	09:50 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
Trip Blank (680-143185-4)	9/18/17	Eastern		Water			X	2	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
SW-1 (680-143186-1)	9/18/17	14:45 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
SW-2 (680-143186-2)	9/18/17	14:25 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 9/19/17 1500	Company	Received by:	Date/Time: 9-20-17 9:40	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

680-143184 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 9/20/2017 @0940

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 7809 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 14740456 pH Strip Lot_____ Chlorine Strip Lot_____

2. Temperature of rep. sample or temp blank when opened: 3.2 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) es

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) es

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) es

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) es

I certify that I attached a label with the unique LIMS number to each container (intial) es

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# es

BIS = Broken in shipment

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

680-143184

TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A		1072.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jerry.lanier@testamericainc.com	State of Origin: South Carolina	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - Florida		Job #: 680-143183-2
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 9/29/2017			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email	WO #:			
Project Name: GCHI--SECHEM INC	Project #: 68002623			
Site	SSOW#			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_SIM/5030B (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SMW-2 (680-143183-1)	9/18/17	12:30 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
YMW-2 (680-143184-1)	9/18/17	11:55 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
YMW-8 (680-143184-2)	9/18/17	11:00 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
YMW-14 (680-143185-1)	9/18/17	13:35 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
YMW-17 (680-143185-2)	9/18/17	10:05 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
YMW-18 (680-143185-3)	9/18/17	09:50 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
Trip Blank (680-143185-4)	9/18/17	Eastern		Water			X	2	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
SW-1 (680-143186-1)	9/18/17	14:45 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
SW-2 (680-143186-2)	9/18/17	14:25 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 9/19/17 1500	Company	Received by:	Date/Time: 9-20-17 9:40	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

680-143185 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 9/20/2017 @0940

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 7809 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 14740456 pH Strip Lot_____ Chlorine Strip Lot_____

2. Temperature of rep. sample or temp blank when opened: 3.2 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) es

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA


Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) es

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) es

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) es

I certify that I attached a label with the unique LIMS number to each container (intial) es

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# es

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

680-143185

TestAmerica

Client Information (Sub Contract Lab)	Sampler	Lab PM: Lanier, Jerry A	1072.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jerry.lanier@testamericainc.com	State of Origin: South Carolina
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - Florida	Page 1 of 2
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 9/29/2017		Job #: 680-143183-2
City: Nashville	TAT Requested (days):		
State, Zip: TN, 37204			
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:		
Email:	WO #:		
Project Name: GCHI--SECHEM INC	Project #: 68002623		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_SIM/5030B (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SMW-2 (680-143183-1)	9/18/17	12:30 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
YMW-2 (680-143184-1)	9/18/17	11:55 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
YMW-8 (680-143184-2)	9/18/17	11:00 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
YMW-14 (680-143185-1)	9/18/17	13:35 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
YMW-17 (680-143185-2)	9/18/17	10:05 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
YMW-18 (680-143185-3)	9/18/17	09:50 Eastern		Water			X	3	See job 680-136723-1 for history 1,4-Dioxane is in the 8260B Sav. run for
Trip Blank (680-143185-4)	9/18/17	Eastern		Water			X	2	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
SW-1 (680-143186-1)	9/18/17	14:45 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
SW-2 (680-143186-2)	9/18/17	14:25 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 9/19/17 1500	Company:	Received by:
Relinquished by	Date/Time:	Company	Received by:
Relinquished by	Date/Time:	Company	Received by:

Received by:	Date/Time: 9-20-17 9:40	Company	
Received by:	Date/Time:	Company	
Received by:	Date/Time:	Company	

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 3.2	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

680-143186 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 9/20/2017 @0940

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 7809 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 14740456 pH Strip Lot_____ Chlorine Strip Lot_____

2. Temperature of rep. sample or temp blank when opened: 3.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) es

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA


Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) es

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) es

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) es

I certify that I attached a label with the unique LIMS number to each container (intial) es

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# es

BIS = Broken in shipment

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

680-143186

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A	: 1072.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: jerry.lanier@testamericainc.com	State of Origin: South Carolina
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - Florida	Page: Page 2 of 2
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 9/29/2017		Job #: 680-143183-2
City: Nashville	TAT Requested (days):		
State, Zip: TN, 37204			
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:		
Email:	WO #:		
Project Name: GCHI--SECHEM INC	Project #: 68002623		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_SIM/5030B (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SW-3 (680-143186-3)	9/18/17	13:50 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
SW-4 (680-143186-4)	9/18/17	13:25 Eastern		Water			X	3	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for
Trip Blank (680-143186-5)	9/18/17	Eastern		Water			X	2	See job 680-136723-1 for history. 1,4-Dioxane is in the 8260B Sav. run for

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 9/19/17 1800	Company	Received by:	Date/Time: 9-20-17 9:40	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.2

Login Sample Receipt Checklist

Client: Giant Cement

Job Number: 680-143183-2

Login Number: 143183

List Source: TestAmerica Savannah

List Number: 1

Creator: Edwards, Jessica R

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Giant Cement

Job Number: 680-143183-2

Login Number: 143183
List Number: 2
Creator: Stewart, Eric S

List Source: TestAmerica Nashville
List Creation: 09/20/17 12:41 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Giant Cement

Job Number: 680-143183-2

Login Number: 143184

List Source: TestAmerica Savannah

List Number: 1

Creator: Edwards, Jessica R

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Giant Cement

Job Number: 680-143183-2

Login Number: 143184
List Number: 2
Creator: Stewart, Eric S

List Source: TestAmerica Nashville
List Creation: 09/20/17 12:41 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Giant Cement

Job Number: 680-143183-2

Login Number: 143185

List Source: TestAmerica Savannah

List Number: 1

Creator: Edwards, Jessica R

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Giant Cement

Job Number: 680-143183-2

Login Number: 143185
List Number: 2
Creator: Stewart, Eric S

List Source: TestAmerica Nashville
List Creation: 09/20/17 12:41 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Giant Cement

Job Number: 680-143183-2

Login Number: 143186

List Source: TestAmerica Savannah

List Number: 1

Creator: Edwards, Jessica R

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Giant Cement

Job Number: 680-143183-2

Login Number: 143186
List Number: 2
Creator: Stewart, Eric S

List Source: TestAmerica Nashville
List Creation: 09/20/17 12:41 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Laboratory: TestAmerica Savannah

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
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-18
Alaska	State Program	10		06-30-18
Alaska (UST)	State Program	10	UST-104	11-05-17 *
Arizona	State Program	9	AZ808	12-14-17
Arkansas DEQ	State Program	6	88-0692	02-01-18
California	State Program	9	2939	06-30-18
Colorado	State Program	8	N/A	12-31-17
Connecticut	State Program	1	PH-0161	03-31-19
Florida	NELAP	4	E87052	06-30-18
GA Dept. of Agriculture	State Program	4	N/A	06-12-18
Georgia	State Program	4	803	06-30-18
Guam	State Program	9	15-005r	04-16-18
Hawaii	State Program	9	N/A	06-30-18
Illinois	NELAP	5	200022	11-30-17
Indiana	State Program	5	N/A	06-30-18
Iowa	State Program	7	353	06-30-19
Kentucky (DW)	State Program	4	90084	12-31-17
Kentucky (UST)	State Program	4	18	06-30-18
Kentucky (WW)	State Program	4	90084	12-31-17
L-A-B	DoD ELAP		L2463	09-22-19
L-A-B	ISO/IEC 17025		L2463.01	09-22-19
Louisiana	NELAP	6	30690	06-30-18
Louisiana (DW)	NELAP	6	LA160019	12-31-17
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-17
Massachusetts	State Program	1	M-GA006	06-30-18
Michigan	State Program	5	9925	06-30-17 *
Mississippi	State Program	4	N/A	06-30-18
Nebraska	State Program	7	TestAmerica-Savannah	06-30-18
New Jersey	NELAP	2	GA769	06-30-18
New Mexico	State Program	6	N/A	06-30-18
New York	NELAP	2	10842	03-31-18
North Carolina (DW)	State Program	4	13701	07-31-18
North Carolina (WW/SW)	State Program	4	269	12-31-17
Oklahoma	State Program	6	9984	08-31-18
Pennsylvania	NELAP	3	68-00474	06-30-18
Puerto Rico	State Program	2	GA00006	12-31-17
South Carolina	State Program	4	98001	06-30-17 *
Tennessee	State Program	4	TN02961	06-30-18
Texas	NELAP	6	T104704185-16-9	11-30-17
Texas	State Program	6	T104704185	06-30-18
US Fish & Wildlife	Federal		LE058448-0	07-31-18
USDA	Federal		SAV 3-04	06-14-20 *
Virginia	NELAP	3	460161	06-14-18
Washington	State Program	10	C805	06-10-18
West Virginia (DW)	State Program	3	9950C	12-31-17
West Virginia DEP	State Program	3	094	06-30-18
Wisconsin	State Program	5	999819810	08-31-18
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Giant Cement
Project/Site: GCHI--SECHEM INC

TestAmerica Job ID: 680-143183-2

Laboratory: TestAmerica Nashville

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
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	01-01-18
Arizona	State Program	9	AZ0473	05-05-18
Arkansas DEQ	State Program	6	88-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-18
Georgia	State Program	4	E87358(FL)/453.07(A2LA)	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	10-31-17
Kentucky (UST)	State Program	4	19	06-30-18
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30613	06-30-18
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-18
Minnesota	NELAP	5	047-999-345	12-31-17
Mississippi	State Program	4	N/A	06-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2963	10-09-17
New Jersey	NELAP	2	TN965	06-30-18
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	06-30-18
Ohio VAP	State Program	5	CL0033	07-06-19
Oklahoma	State Program	6	9412	08-31-18
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	68-00585	06-30-18
Rhode Island	State Program	1	LAO00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-18
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-17 *
Virginia	NELAP	3	460152	06-14-18
Washington	State Program	10	C789	07-19-18
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-17 *
Wyoming (UST)	A2LA	8	453.07	12-31-17

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Savannah