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June 26, 2015

Mr. Craig Zeller
Remedial Project Manager
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, SW
Atlanta, GA 30303-3104

RE: Annual Report, Period April 2014 to March 2015
Sangamo Weston, Inc./Twelvemile Creek/Lake Hartwell PCB Contamination
Superfund Site (Operable Unit 1), Pickens, South Carolina

Dear Mr. Zeller:

The subject report is enclosed for review. Should you have any questions or comments, please call me at (281) 285-4747. I can also be reached by e-mail at cocianni-v@slb.com.

Sincerely,

Virgilio Cocianni
Remediation Manager

Enclosure

c: Greg Cassidy/South Carolina Department of Health and Environmental Control
Dave Urann/CH2M HILL
Monica Schneider/CH2M HILL

Annual Report,
Period April 2014 to March 2015

Sangamo Weston, Inc./ Twelvemile Creek/Lake Hartwell PCB Contamination Superfund Site (Operable Unit 1)

Pickens, South Carolina

June 2015

Prepared for:

Schlumberger and DOW

Prepared by:

ch2m

REPORT

Annual Report, Period April 2014 to March 2015 Sangamo Weston, Inc./ Twelvemile Creek/Lake Hartwell PCB Contamination Superfund Site (Operable Unit 1), Pickens, South Carolina

Prepared for

U.S. Environmental Protection Agency, Region 4, South Carolina Department of Health and Environmental Control

June 2015

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Acronyms and Abbreviations

µg/L	microgram per liter
AE	A & E Drilling Services
AOC	Administrative Order on Consent
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CH2M	CH2M HILL Engineers, Inc.
cis-1,2-DCE	cis-1,2-dichloroethene
DCE	1,1-Dichloroethene
FS	feasibility study
FYR	Five-Year review
ISCO	in situ chemical oxidation
NPDES	National Pollutant Discharge Elimination System
OU1	Operable Unit 1
OU2	Operable Unit 2
PCB	polychlorinated biphenyl
PCE	tetrachloroethene
QC	quality control
RI	remedial investigation
ROD	Record of Decision
RSL	Regional Screening Level (USEPA)
Sangamo Weston	Sangamo Weston, Inc.
SCDHEC	South Carolina Department of Health and Environmental Control
STC	Schlumberger Technology Corporation
site	former Woodland manufactured gas plant site
TCE	trichloroethene
trans-1,2-DCE	trans-1,2-dichloroethene
UIC	underground injection control
USEPA	U.S. Environmental Protection Agency
VOC	volatile organic compound
WWTP	wastewater treatment plant

SECTION 1

Introduction

Sangamo Weston, Inc. (Sangamo Weston) owned and operated a capacitor manufacturing plant near Pickens, South Carolina. The plant began operation in 1955 and manufactured capacitors and other related electrical components until the business was sold in 1987. Some of the capacitors used a dielectric fluid, which contained polychlorinated biphenyls (PCBs). The use of PCBs was discontinued at the plant in 1977. Additionally, chlorinated solvents appear to have been used, particularly tetrachloroethene (PCE) and trichloroethene (TCE). As part of the manufacturing process, capacitors were inspected and tested. The capacitors that failed to meet quality control (QC) criteria were discarded along with other process and non-process solid wastes. These solid wastes were disposed of in several locations on the Plant Site property and at six sites remotely located off the Plant Site property. The six remote sites are referred to as the Nix, Dodgens, Welborn, Cross Roads, John Trotter, and Breazeale Sites. Following plant closure, an Administrative Order on Consent (AOC) dated June 18, 1987, initiated a remedial investigation (RI)/feasibility study (FS) by STC. Results of the RI/FS were incorporated into the final Record of Decision (ROD) for OU1 in December 1990 (USEPA 1990). An amended ROD was approved for the Breazeale Site in 2009 where in situ chemical oxidation (ISCO) would be used in lieu of existing pump and treat systems (USEPA 2009).

USEPA divided the overall site into separate operable units (OUs) to expedite RI and response activities. OU1 consists of source areas and resulting groundwater contaminant plumes at the Plant Site and six satellite disposal areas. Four of the satellite sites (Nix, Dodgens, Welborn, and John Trotter) have subsequently been delisted, and only the Plant Site, Cross Roads, and Breazeale Sites remain (Figure 1). Site maps of the Plant Site, Breazeale Site, and Cross Roads Site are presented in Figures 2, 3, and 4, respectively. OU2 comprises the sediment and surface water migration routes downstream from the Plant Site and the satellite disposal areas, and is not addressed in this report.

SECTION 2

Work Conducted During Reporting Period

The following activities were performed during this reporting period:

- Operation, maintenance, and monitoring of the Plant Site groundwater recovery and treatment system
- Annual groundwater and surface water monitoring
- Five-Year review (FYR)
- Area H permanganate injection and performance monitoring
- Breazeale permanganate injection and performance monitoring
- Well rehabilitation measures

The activities and results are discussed in the following sections.

SECTION 3

Plant Site Groundwater Recovery and Treatment System

The Plant Site groundwater recovery and treatment system consists of a groundwater extraction and recovery system and equipment to treat (remove) PCBs and volatile organic compounds (VOCs). A 600,000-gallon concrete equalization basin (basin) at the wastewater treatment plant (WWTP) receives groundwater extracted from seep collection systems and recovery wells located in Areas 2, 3, 4, 5, and 7 (Figure 2). When the water level in the basin exceeds 6 feet deep (210,000 gallons), water is pumped from the basin for treatment via air stripping and activated carbon. Before treatment, a portion of this basin effluent is recycled through a sprayer back into the basin to aerate the water and reduce levels of dissolved iron and manganese. The vapor effluent from the air stripper is de-misted and is not further treated prior to atmospheric discharge. The treated effluent is discharged onsite to a creek bed, where it flows 300 yards to a small pond (approximately 2 acres in size). By design, the pond overflows into a creek bed, which flows another 200 feet before ultimately discharging to Town Creek under National Pollutant Discharge Elimination System (NPDES) Permit #SC0046612.

3.1 Operation

During the period April 2014 to March 2015, the WWTP operated as planned, with occasional downtime due to repairs, maintenance, and extreme low temperatures. Because of the storage capacity available in the basin, the recovery wells and pumps were never shut down during these WWTP down times. Tables 1 and 2 provide the average flows from the groundwater recovery areas and monthly flows from the groundwater treatment system, respectively. Quarterly water quality samples were collected at various points within the treatment process to determine process effectiveness; monthly samples were collected to ensure that the effluent quality was meeting NPDES permit requirements; and a "dashboard" of near-real-time operations data was maintained to monitor and assist in making timely decisions regarding performance of the groundwater recovery and treatment system components.

3.2 Maintenance

Table 3 summarizes the OU1 operations and maintenance chronology for the reporting period. As indicated in Table 3, most events are related to routine maintenance. Significant additional maintenance activities included the following:

- Performed two hydrogen peroxide system flushes to eliminate biological buildup
- Added an aeration process to the basin to increase dissolved oxygen during the summer months
- Added Area 3 to the cellular remote monitoring and upgraded control system; all pumps are now on Mission cellular monitoring system
- Replaced pump 1 in Area 3; the wiring harness, transducer, and variable frequency drive on SPRW-702; the starter on pump P-52; and controls in Area 2

3.3 Groundwater Recovery and Treatment System Results

The flow records for the Plant Site WWTP indicate that the system was operated successfully over the past year. The flow data in Table 2 show that the system extracted and treated approximately 28.5 million gallons during the 12-month reporting period. This is a 5.6 percent increase from the 27.0 million gallons reported for the prior 12-month period (CH2M 2014).

The analytical results for samples collected from the WWTP are summarized in Table 4. The table shows that the treated effluent met the NPDES permit limits (NPDES Permit #SC0046612) for water discharged during the reporting period.

Table 5 shows estimated removal quantities for various components of the treatment system. Table 6 shows estimated historical mass removal quantities since system startup in November 1998. In that time period, the system has treated 332.9 million gallons of water and removed approximately 2,049 pounds of VOCs (1,1-Dichloroethene [DCE], TCE, and PCE) and 28 pounds of PCBs. Approximately 61 pounds of VOCs and 1.6 pounds of PCBs were removed during the reporting period, compared to about 106 pounds of VOCs and 4.4 pounds of PCBs reported for the prior year of operations (CH2M 2014). This represents a 42 percent reduction in VOCs and 63 percent reduction in PCBs year over year, indicating the system may be reaching asymptotic recovery. Charts 1 and 2 show the cumulative mass removal of VOCs and PCBs, respectively, since system startup.

SECTION 4

Annual Groundwater and Surface Water Monitoring

The activities performed during the 2015 annual monitoring event are described in the following subsections.

4.1 Groundwater Level Measurements and Inspections

Groundwater level measurements were collected from Plant Site and Breazeale Site wells on March 30 through April 1, 2015. The groundwater level elevations shown in Table 7 were used to develop the potentiometric surface maps for the Plant and Breazeale Sites shown in Figures 5 and 6, respectively. The potentiometric surface maps show groundwater elevations and flow directions that are consistent with past monitoring events. At the Plant Site, groundwater flow is generally radially outward from the east-west trending ridge where the former release areas are situated (Figure 5). At the Breazeale Site, groundwater flows generally north to south toward Wolf Creek (Figure 6).

An inspection of the Plant Site and Breazeale Site wells was completed prior to sampling. The well inspection findings are presented in Table 7. The wells were generally found to be in good condition.

An inspection of Cross Roads Site monitoring wells was performed in June 2015, documenting well condition and access. The well locations are shown in Figure 4. Inspection results are presented in Table 8. While documentation of well conditions indicate the bottom of four of the six wells was soft, the measured total depth and as-built total depth are similar and do not suggest re-development is needed.

4.2 Sampling Procedures

Groundwater samples were collected at the Plant and Breazeale Sites from April 1 through 3 primarily using HydraSleeve samplers (a no-purge sampling device) approved for use at the site by USEPA and South Carolina Department of Health and Environmental Control (SCDHEC) on November 7, 2013. Where HydraSleeve samplers could not be used due to blockages in the well or insufficient groundwater within the well screen interval, peristaltic pumps, double-valve pumps, or sample ports were used. Due to sampling issues during the initial sampling event (such as insufficient recovery and HydraSleeve malfunction), several wells were sampled during subsequent site visits on April 22, 23, and May 7, 2015. Table 9 shows the date, analytes, and sampling methods used for each well. Excess groundwater (purged or from HydraSleeves) was contained in buckets with sealable lids and transported to the WWTP for treatment.

Two surface water grab samples (SW-2 and SW-3) were collected at the established locations shown in Figure 2. SW-2 was collected from the effluent flow directly north of the Area 3 recovery wells, and SW-3 was collected from a small creek downgradient from the Former Secure Landfill. Both surface water samples were collected in creeks upstream of their discharge into Town Creek.

4.3 Sample Analysis

Water samples and associated QC samples were submitted for laboratory analysis of VOCs (USEPA Method SW8260B) to TestAmerica of Nashville, Tennessee. The following VOCs were analyzed:

- 1,1-DCE
- cis-1,2-DCE
- PCE
- trans-1,2-DCE
- TCE

- Vinyl chloride

Selected wells (defined in Table 9) were also sampled for the following PCBs (USEPA Method SW8082):

- Aroclor 1242
- Aroclor 1248
- Aroclor 1254

The laboratory performed an initial validation on the sample results, and CH2M chemists performed final validation of the results. Laboratory reports for the 2015 annual monitoring event are provided in Appendix A, and the data quality evaluation report is provided in Appendix B.

4.4 Annual Monitoring Results

The validated 2015 groundwater and surface water analytical results from Plant Site wells and surface water locations are presented in Tables 10 and 11. The validated groundwater analytical results collected from Breazeale Site monitoring wells are presented in Table 12.

Time-trend graphs of VOC levels are provided in Appendix C. Trend graphs for wells in which the contaminants of concern have not been detected in 2 or more years and recently-installed wells that only have fewer than three time points on record are not included.

4.4.1 Plant Site

Of the 54 groundwater samples which were collected from Plant Site monitoring wells, 12 groundwater samples contained VOCs below their respective performance standards. Figure 7 shows the distribution of total VOCs in groundwater at the Plant Site. For the total VOCs (sum of targeted VOCs), concentrations above 100 micrograms per liter (µg/L) were plotted with isocontours. Multiple plumes of total VOCs greater than 100 µg/L originating in Areas D, H, and B, and the Former Manufacturing Building are present at the Plant Site.

Samples from 20 well locations were collected and analyzed for PCBs. Aroclor 1242 was detected at concentrations above the applicable performance standard (0.5 µg/L) at groundwater samples from 2 well locations, and Aroclor 1248 was detected at concentrations above the performance standard in samples from 13 wells. Figure 8 shows concentrations of total PCBs (Aroclor 1242 and Aroclor 1248) at the Plant Site. Concentrations above the performance standard of 0.5 µg/L were plotted with isocontours.

Surface water analytical results are presented in Table 11. At surface water sample location SW-2, PCE and TCE were detected above the applicable surface water quality standards (0.69 and 2.5 µg/L, respectively), but concentrations were lower than the 2014 concentrations. No VOCs were detected in SW-3.

4.4.2 Breazeale Site

The validated 2015 groundwater analytical results from Breazeale Site wells are presented in Table 12. Results are compared against the performance standards and the interim protection levels established in the 2009 ROD amendment (USEPA 2009). Figure 9 shows PCE and TCE concentrations in groundwater and isocontours at the Breazeale Site. The results also serve as the post-injection results, following December 2014 injections. The injection activities are summarized in a subsequent section.

Of the 16 groundwater samples collected from Breazeale Site monitoring wells in 2015, TCE and/or PCE concentrations were above the performance standards (5 µg/L) in 4 monitoring wells (BRMW-02, BRMW-04, BRMW-04A and BRMW-11) and above the interim protection levels (150 µg/L and 40 µg/L, respectively) in 2 monitoring wells (BRMW-02 and BRMW-11). The highest PCE concentration was 1,420 µg/L, detected in well BRMW-11. BRMW-11 was the only well that exceeded the TCE interim

protection level at a concentration of 2,150 µg/L. The isocontours illustrate that the plume extents based on the performance standards and interim protection levels are similar.

The 2015 performance monitoring results indicate that overall concentrations of PCE and TCE are decreasing. At BRMW-04, the PCE concentration decreased significantly from pre- to post-injection monitoring and is now below the interim protection level. PCE concentrations at BRMW-02 (and several wells below the PCE interim protection level) were fairly stable before and after injection, but there was a significant increase in concentration at BRMW-11, from 79 µg/L in March 2014 to 1,420 µg/L in May 2015. PCE concentrations at BRMW-11 of this magnitude have previously occurred in recent years, as recently as 2012, which suggests that there may be a residual continuing source of PCE near BRMW-11. The residual source may have been disturbed by the recent injections. TCE concentration trends followed similar patterns, decreases were observed in BRMW-02 and BRMW-04, and both are currently below the interim protection level. The TCE concentration at BRMW-11 increased from 96 µg/L in March 2014 to 2,150 µg/L in May 2015. Appendix C includes trend graphs for each of these locations.

No sodium permanganate was observed at BRMW-02 or BRMW-11 when post-injection measurements were collected in May 2015. Sodium permanganate was observed in BRMW-04 at an estimated concentration of 37.6 milligrams per liter. In general, data and field observations suggest that the sodium permanganate injection was more effective and/or more fully distributed at BRMW-04 than BRMW-02 and BRMW-11.

The 2015 analytical results in Breazeale wells represent a significant reduction in PCE and TCE groundwater concentrations over the past over 20 years as a result of the groundwater extraction and treatment system, which was operated since 1993, and the permanganate ISCO injection events conducted in 2009, 2012, and 2015. Only two wells (BRMW-02 and BRMW-11) have groundwater with PCE and/or TCE concentrations above the interim protection levels, and these wells are located over 250 feet from the nearest surface water body. The potential risk of PCE or TCE reaching surface water at concentrations with unacceptable risk to ecological receptors has essentially been eliminated. Therefore, it is recommended that groundwater sampling frequency at the Breazeale Site be reduced from annual to biennial. Performance monitoring (outside of current sampling and reporting requirements), on an as-needed basis, may be conducted to continue to evaluate the effectiveness of the December 2014 injections. This would consist primarily of a visual inspection only for presence of permanganate, with no laboratory analysis, and would be conducted outside the current underground injection control (UIC) permit guidelines for performance monitoring. If further action is warranted, it will be developed during 2016 work planning.

4.4.3 Cross Roads Site

Six monitoring wells at the Cross Roads Site are scheduled to be gauged and sampled on a biennial basis and inspected annually. The wells were gauged and sampled in 2014 and will be gauged and sampled during the next biennial event, in 2016.

SECTION 5

Five-Year Review

Pursuant to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) requirements, USEPA Region 4 conducted a FYR of the selected remedy for OU1 and OU2. This review was primarily conducted from April 29, 2014, through September 1, 2014. The first FYR reports for OU1 and OU2 were issued in September 2005 and September 2004, respectively. Subsequent FYR reports for OU1 and OU2 were issued in February 2010. The third FYR report addresses both OUs separately, but under the same cover, and was approved on March 25, 2015 (USEPA 2015). The findings from the review state that the current remedy at OU1 is considered protective of human health and the environment.

SECTION 6

Area H Permanganate Injection

As part of the approved 2013 Areas B and H removal action work plan (CH2M 2013), an injection gallery was installed at the base of the Area H excavation to facilitate in situ vadose zone and groundwater remediation of VOCs. The injection gallery consisted of a horizontal slotted pipe within a gravel layer at the base of the excavation to facilitate reagent distribution. On November 4 and 5, 2014, approximately 10,000 gallons of sodium permanganate injectate, containing approximately 834 pounds of sodium permanganate, were injected in to the Area H vadose zone through the injection gallery. The injection activities were completed in accordance with the UIC permit application submitted to SCDHEC on August 4, 2014, and as approved by SCDHEC (Permit No. SCHE03020417). Details of this activity are summarized in a technical memorandum (Appendix D).

Groundwater samples from monitoring wells SHMW-2, SHMW-3, and SHMW-10 were collected in May 2015 and visually inspected for the presence of permanganate. No permanganate was visible in any groundwater samples associated with the Area H ISCO injection. Laboratory analytical results for VOCs from performance monitoring (conducted in April 2015 at wells SHMW-2, SHMW-3, and SHMW-10 [Table 10]) provided varying concentration trends for PCE and TCE. PCE concentrations remained stable at SHMW-2, decreased at SHMW-3, and increased in SHMW-10, which is the furthest performance monitoring well from the injection well (Appendix D, Figure 2). The TCE concentration decreased in SHMW-2 and SHMW-3, and increased in SHMW-10. Appendix C provides trend graphs of available data from these wells to illustrate these trends. Based on a lack of visual evidence of permanganate in these wells, the observed VOC concentration reductions in these wells may not be attributed to the Area H ISCO injection.

It is recommended that additional voluntary performance monitoring (visual inspection for presence of permanganate, sodium analysis [field or laboratory]) be conducted at the Area H wells at least one additional time by the end of 2015. A future injection event is planned for later this year or in 2016.

SECTION 7

Breazeale Permanganate Injection

In an effort to facilitate remediation of TCE and PCE in groundwater at the Breazeale Site, ISCO injections with sodium permanganate were executed using direct-push technology (DPT) between December 8 and 23, 2014. The injection activities were completed in accordance with the UIC permit application submitted to SCDHEC on December 3, 2014, and as approved by SCDHEC (Permit No. SCHE03020152M). A total of approximately 26,223 gallons of sodium permanganate injectate, containing approximately 4,223 pounds of sodium permanganate, were delivered into the two target treatment areas. The upgradient extent of each target treatment area was successfully confirmed prior to initiating the injections. No mounding or impacts to nearby monitoring wells were observed. A small amount of daylighting of injectate occurred at some locations. Injection methods were modified to eliminate daylighting, and the effects of the daylighting were successfully mitigated. The delivery of the permanganate solution is expected to reduce the concentrations of TCE and PCE in groundwater to meet the criteria established in the revised ROD to be protective of Wolf Creek. Details of this activity are summarized in a technical memorandum (Appendix E).

Groundwater concentration trends and 2015 groundwater analytical results (which are also the December 2014 post-injection analytical results), post-injection field measurements, and additional performance monitoring recommendations are described in a previous section.

SECTION 8

Well Rehabilitation Measures

In March 2015, CH2M contracted A & E Drilling Services (AE) to rehabilitate monitoring wells SDMW-3, SDMW-5, SDMW-8, SPRW-301, and SWMW-7A and to conduct downhole video inspections before and after rehabilitation. Fouling was discovered and repaired by redevelopment in wells SDMW-3, SDMW-8, SPRW-301, and SWMW-7A. Significant silting was discovered in well SDMW-5 above the well's screened interval, which could not be repaired. Due to the significant cost to repair SDMW-5 and its limited value as a monitoring well, it is recommended for abandonment. Details of this rehabilitation effort is summarized in a technical memorandum (Appendix F).

SECTION 9

Proposed Modifications to the Monitoring Program

The proposed modifications to the monitoring program for the Plant Site and remote sites is as follows:

- Continue to gauge and inspect Plant Site wells listed in Table 7, with the exception of those that could not be located (that is, those that are presumed to be abandoned). Continue to sample Plant Site wells presented in Table 9, with the exception of those noted that could not be sampled in 2015, on an annual basis. Wells recommended to be removed from the annual monitoring program (sampling and/or gauging) are presented in Table 13.
- Change the groundwater sampling frequency at the Breazeale Site from annual to biennial (once every 2 years). However, performance monitoring (outside of current sampling and reporting requirements), on an as-needed basis, may continue to be conducted to evaluate the 2014 ISCO permanganate injections.

SECTION 10

References

CH2M HILL (CH2M). 2013. *Area B & H Removal Action Work Plan, Sangamo Weston, Inc. Plant Site, Pickens, South Carolina*. August.

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Tables

Table 1. Average Flows from Groundwater Recovery Areas
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

Area	Point of Measurement	Average Yield (gpm)	Total Yield for Reporting Period
2	Area Flow Meter	16.7	8,800,000
3	Area Flow Meter	7.6	4,000,000
4	Meter for SPRW-401[a]	9.1	4,789,580
5	none[b]	18.1	9,500,000
7	Meter for SPRW-701[a]	0.2	100,000
	Meter for SPRW-702[a]	2.5	1,300,000
		Total yield:	**28,500,000**

[a] Wells only operated for a portion of the operating period.

[b] Area 5 not gauged. Yield and Total Yield estimated from difference of total yield from other areas and total effluent volumes at WWTP (Table 2).

gpm - gallons per minute

Table 2. Monthly Flows from Groundwater Treatment System

Annual Report, Period April 2014 to March 2015

Sangamo Weston Site, Pickens, South Carolina

Month	Average Daily Flow (mgd)	Days Per Month	Total Monthly Flow (MG)
April 2014	0.093	30	2.8
May 2014	0.082	31	2.6
June 2014	0.077	30	2.3
July 2014	0.066	31	2.1
August 2014	0.078	31	2.4
September 2014	0.079	30	2.4
October 2014	0.078	31	2.4
November 2014	0.078	30	2.3
December 2014	0.074	31	2.3
January 2015	0.084	31	2.6
February 2015	0.062	28	1.7
March 2015	0.085	31	2.6
	Total flow for period April 2014 through March 2015:		**28.5**

Note: Total flow is based on plant effluent gauging, not influent to the equalization basin.

mgd = million gallons per day

MG = million gallons

Table 3. Operations and Maintenance Chronology, OU1 Treatment Systems
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Sangamo Weston Site, Pickens, South Carolina

Date	Time	Activity
4/1/2014	8:00	P-56 check valve not checking - manually fixed. Area 2 holding around 7' in sump.
4/2/2014	8:00	Attempt to run Area 2 system in auto failed; reset to manual operation. Replaced WTS bag filter. (13:30) Basin level high enough; started WTS with no alarms.
4/3/2014	10:30	Increased Area 2 pump to 65% flow capacity.
4/4/2014	8:00	Decreased Area 2 pump to 61% flow capacity. (20:38) High inlet pressure alarm on bag filter; shut down WTS.
4/7/2014	7:00	Replaced bag filters. (07:40) Restarted WTS. Heavy rain. (11:00) Area 2 sump level at 8.5'; adjusted Area 2 pumps to 65% flow capacity. (14:00) Area 2 level at 9.6'; increased Area 2 pumps to 100%. (15:45) Area 2 sump level at 8.8'; adjusted Area 2 pumps to 65% flow capacity.
4/8/2014	7:00	Area 2 sump level at 8.2', pump running at 65%. (15:00) Shut down WTS and replaced bag filters. (15:30) Restarted WTS.
4/9/2014	7:00	Set Area 2 pump to 62%. (8:00) Backwashed lead carbon unit. (12:45) Backwashed lag carbon unit.
4/10/2014	0.29166667	6 alarms reported at 03:22. Alarms didn't affect the system - reset alarms. Switched Area 2 to auto. (14:30) Replaced bag filters, restarted WTS.
4/11/2014	8:00	Cleaned slime out of basin. Backwashed lead & lag carbon units. Area 2 still running in auto.
4/12/2014		Replaced bag filters; Influent equalization basin too low to start WTS.
4/14/2014	7:30	Reset pressure alarm on Area 2 (not running). Switched Area 2 to manual. (10:45) Restarted WTS.
4/15/2014	8:00	Area 2 running in manual at 65% (09:47) Effluent tank full; shut WTS down. (15:30) Cleaned culvert at Area 2.
4/16/2014	7:00	Reset 2 alarms from overnight; started WTS - no alarms.
4/17/2014	7:00	Reduced Area 2 pumps to 63%. (14:15) WTS shut down - basin level low.
4/18/2014	8:00	Removed 2 trees blocking entrance to Area 2.
4/19/2014	7:30	Shut down WTS (bag pressure high). (11:00) Replaced bags in system. Basin level too low to restart WTS. Increased Area 2 pump to 64%. (12:00) Backwashed #1 and #2 carbon units.
4/21/2014	7:00	WTS running; no alarms. Cleaned basin area.
4/22/2014	7:00	Cleaned floating material from basin. (10:00) SC DHEC inspection at Breazeale site. (13:00) Shut down Area 3 system and cleared the strainer. Area 5 still running on 2 pumps. (17:31) High pressure alarm on bag filter; shut WTS system down.
4/23/2014	7:00	Changed bag filters. (08:58) Started WTS. (09:30) P-55 check valve not checking; closed gate valve; valve checked. (13:00) Area 2 running on new float system. New pump installed at P-54.
4/24/2014	0.35416667	Anderson Fire & Safety on site for annual fire extinguisher inspection. (12:00) Removed Area 2 orifice plate. (14:00) Pump installed at P-53.
4/25/2014	7:30	Replaced bag filters. (11:00) Cleaned basin at influent pipe. Set WTS to auto start. Installed new Area 2 flow meter at WTS.
4/28/2014	13:40	Shut down effluent pumps to fill effluent tank to backwash carbon units. (15:00) Backwashed #1 carbon filter and left system down.
4/29/2014	7:00	Replaced bags and started WTS; running normal. (09:00) Area 2 system running on pump #2 (23 gpm), switched to Pump #1 (26 gpm). (11:00) Grouted 4 pipes inside Breazeale building.
4/30/2014	7:00	WTS shut down at 05:00 (low level alarm in air stripper sump). Manually running system to fill effluent tank to backwash carbon units. Dwight Ellis replaced pump #1 at Area 3. (23:30) WTS started up, no alarms.
5/1/2014	8:00	Switched Area 2 to Pump #2. Alarm on Area 5 runoff sump; reset. Area 5 sump running on pump #2 at 58 psi. (09:16) Bag influent pressure high on WTS; shut down to replace bags; basin level low. (11:12) WTS started up. (14:30) Overload alarm on effluent pump P-55; P-56 running; P-55 check valve not checking; closed gate valve; check valve checked. (22:39) Overload alarm on effluent pump P-56; system running on P-55 automatically.
5/2/2014	7:00	Manually start WTS to lower basin level to clean float assembly. (09:00) Area 2 running on pump #2; switched to Pump #1 (has better flow). Clyde Hall and Dwight Ellis installing new floats and meters at Area 5.
5/5/2014	0.29166667	WTS shut down on 5/4/2014 (from home). Started WTS; high discharge pressure on bag filter influent. (08:45) Shut down WTS to change bag filters. (09:00) Grabbed monthly sample. (13:00) Cleaned floating slime off basin surface.
5/6/2014	13:30	Backwashed #1 carbon unit twice.
5/7/2014	7:00	Replaced bag filters and started WTS. (09:00) Backwashed #2 carbon unit. (11:00) Switched Area 2 system to #1 pump.
5/8/2014	10:00	Area 2 system running on pump 2; switched to pump 1, all OK.
5/9/2014	0.375	High influent pressure on bag filter; replaced bags. (11:00) Switched Area 2 system to Pump #1. Backwashed both carbon filters. (14:00) Cleaned slime off water at equalization basin. (14:40) Basin level high enough for WTS system startup. All ok.
5/11/2014	14:00	WTS running with 2 alarms: P-55 effluent pump and bag filter. Replaced bag filters and closed gate valve at P-55, causing P-55 to check. (23:45) WTS started up.
5/12/2014	11:00	Air stripper blower meter appears to not be counting (only totaled 11 hrs for the week).
5/13/2014	7:00	Backwashed both carbon units; replaced bag filters. (13:30) Started up WTS, all ok. (22:38) Overload alarm on P-55; running on P-56.
5/14/2014	7:00	Closed check valve on P-55 (wasn't checking). (10:00) Sprayed weed killer around basin, WTP, and office area. (13:30) Switched Area 2 system to run on pump #1 at 27 gpm.
5/15/2014	7:00	HMI remote monitoring system isn't working; restarted PAC runtime system; all ok. (07:30) Replaced bag filters. (11:00) Switched Area 2 to pump #1. (13:00) Alarm on Area 5 runoff sump; reset.
5/16/2014	8:00	Switched Area 2 from pump #2 to stronger pump #1.
5/18/2014	15:15	Bag filter high pressure alarm; shut down WTS.
5/19/2014	7:00	Replaced bag filters; started WTS; high discharge pressure on carbon unit #1. (13:30) Switched Area 2 from pump #2 to stronger pump #1.
5/20/2014	11:30	Backwashed both carbon units. (15:00) Replaced bag filters.
5/21/2014	21:24	High pressure alarm on bag filter system. (22:10) Shut down WTS from home.
5/22/2014	7:00	Replaced bag filters. (10:00) New pump at Area 2 pumps fast enough to cycle on and off. (18:30) Started WTS.
5/23/2014	8:40	High pressure alarm on bag filter; changed filters.
5/24/2014	12:00	Shut down WTS
5/25/2014	16:00	High pressure alarm on bag filter; changed filters. (17:30) Restarted WTS.
5/26/2014	10:40	Bag influent pressure is high; shut down WTS from home.
5/27/2014	7:00	Replaced bag filters. Cleaned baskets (6 total). (08:00) Started WTS; reset startup alarms. (15:30) Had to push motor control to restart Area 5 sump pump #2.
5/28/2014	10:00	Cleaned Area 3 strainer. (11:40) Backwashed carbon unit #1. (13:30) Backwashed carbon unit #2. Replaced bag filters.
5/29/2014	11:19	Overload alarm on effluent pump P-55. Switched to P-56. (12:00) Had to push motor control to restart Area 5 sump pump.
5/30/2014	11:20	Backwashed carbon unit #2. (13:40) Backwashed carbon unit #1. (14:15) Replaced bag filters.
5/31/2014	13:40	Low level alarm on air stripper sump. WTS is not running, but AS blower is running.

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Date	Time	Activity
6/1/2014	9:30	High pressure alarm on bag filters. Tried to shut down WTS from home; wouldn't shut down. Notified Richard Cassell (system designer).
6/2/2014	7:00	Richard Cassell fixed the problem (software issue). (07:12) Restarted WTS. (08:00) Backwashed carbon unit #1. (08:20) Restarted WTS; all ok.
6/3/2014	0.64236111	High pressure alarm on bag filter; replaced bag filters.
6/4/2014	10:44	Backwashed carbon unit #1. (15:20) Backwashed carbon unit #2. (15:50) Restarted WTS; all ok.
6/5/2014	9:00	High differential pressure alarm on carbon unit #1. (11:00) Backwashed carbon unit #1. (13:00) Bush hog damaged a cleanout pipe from the Area 2 lift station. Immediately shut off Area 2 system. (15:00) Backwashed carbon unit #1 again. (19:30) Area 2 cleanout repaired.
6/6/2014	13:00	Alarms on carbon filter and bag filter. Shut down WTS and backwashed carbun unit #1. (16:23) General alarm on basin pump P-52.
6/7/2014	21:06	Overload alarm on effluent pump P-55. (23:08) Overload alarm on effluent pump P-56. (23:22) Shut down WTS; high pressure on bag filter.
6/8/2014	13:00	Replaced bag filters. (14:00) Backwashed carbon unit #1. (14:40) Restarted WTS. System normal (basin pump P-52 still in alarm)
6/9/2014	14:15	High differential pressure alarm on carbon unit #1.
6/10/2014	9:04	WTS shut down due to low level in equalization basin. BL-01 continues to run because of the P-52 basin pump alarm. (10:00) Backwashed carbon unit #1 and replaced bag filters. Bled air out of WTS and filled effluent tank. (11:20) Flow from the basin is reading at 91 gpm, but the flow meter is reading 120 gpm. Adjusted the flow at the basin.
6/11/2014	13:45	Basin pump P-52 needs a starter. System will remain down until part comes in (tomorrow).
6/12/2014	12:30	Replaced starter on basin pump P-52. (13:15) WTS running normal.
6/13/2014	13:00	Backwashed carbon unit #1. (14:30) Restarted WTS; all ok.
6/14/2014	9:30	Shut down system and backwashed carbon unit #1. (10:30) Replaced bag filters. (12:00) Restarted WTS; all ok.
6/15/2014	6:30	High differential pressure alarms on bag and carbon filters; shut down WTS from home. (19:00) Set system up to backwash carbon unit #1; water level in basin not at start level; set to auto.
6/16/2014	12:00	Adjusted flow from basin. HMI remote monitoring system still reading wrong on display.
6/17/2014	14:00	Basin is low, but started WTS manually to fill effluent tank to backwash carbon unit #1. (16:00) Replaced bag filters.
6/19/2014	12:00	Area 2 totalizer not turning; disassembled turbine from the meter and removed two small stones lodged in the turbine; all ok.
6/20/2014	12:00	Pressure high on carbon unit #1; shut down WTS and backwashed carbon units #1 and #2. Replaced bag filters. (14:30) Restarted WTS.
6/21/2014	14:00	WTS running with high differential pressure on carbon unit #1. Filled effluent tank to backwash and replaced bag filters. Set WTS to auto-start once basin reaches minimum water level.
6/23/2014	10:30	Backwashed carbon unit #1. (14:00) Backwashed carbon unit #2. (14:40) Started WTS manually to purge air from system. (14:55) Set WTS to auto-start once basin reaches minimum water level.
6/24/2014	8:38	WTS started; reset several startup alarms; all ok. (10:45) National Power Corp. on site to service Area 3 generator.
6/25/2014	9:00	Replaced bag filters. (11:00) Backwashed carbon unit #1. (13:30) Backwashed carbon unit #2.
6/26/2014	13:00	Cleaned Area 3 strainer.
6/27/2014	9:00	Replaced bag filters. (12:00) Backwashed carbon unit #1. (14:00) Backwashed carbon unit #1 again. (15:00) Backwashed carbon unit #2. (15:30) Set WTS to auto-start once basin reaches minimum level.
6/30/2014	7:00	Replaced bag filters. (11:00) Backwashed carbon unit #1. (12:30) Cleaned the bag filter housing. WTS running ok after resetting startup alarms.
7/1/2014	7:00	WTS running. Reset alarm on P-55. All ok. (10:40) High differential pressure on carbon unit #1. Backwashed carbon unit #1 three times and carbon unit #2 once. (16:10) WTS running normal after resetting startup alarms.
7/2/2014	11:30	Overload alarm on P-56; automatically switched to P-55. High pressure on bag filter; shut down WTS. (14:00) Backwashed carbon unit #1. (15:00) Replaced bag filters.
7/3/2014	10:40	Backwashed carbon unit #2. (13:00) Backwashed carbon unit #1. (14:00) WTS running; all ok.
7/4/2014	10:00	Shut system down due to alarms on bag filter and carbon unit #1.
7/5/2014	14:00	Backwashed carbon unit #1; replaced bag filters. (16:00) Started WTS; reset startup alarms; all ok.
7/6/2014	17:00	Bag pressure alarm; shut down WTS.
7/7/2014	7:00	Replaced bag filters; partial backwash on carbon unit #1. (08:00) Air Stripper totalizer not turning; shut down WTS and cleaned the totalizer--removed sack debris. (08:30) Restarted WTS and reset startup alarms.
7/8/2014	6:00	High pressure alarm on bag filters; shut down WTS from home. (07:00) Replaced bag filters. (09:30) Backwashed carbon unit #1. (11:12) Backwashed carbon unit #2. Set to start automatically once basin reaches minimum water level.
7/9/2014	7:00	WTS running; reset startup alarms; all ok. (08:00) Maintenance crew at Area 2. (09:12) High pressure alarm on bag filter. (10:40) Backwashed carbon unit #1. (11:00) Replaced bag filters.
7/10/2014	5:20	High pressure alarm on bag filters; shut down WTS from home. (07:00) Replaced bag filters.
7/12/2014	15:05	Replaced bag filters.
7/13/2014	20:00	High pressure alarm on bag filters; changed bag filters.
7/14/2014	8:15	Maintenance staff backwashed lead carbon 08:15 - 12:45. Backwashed lag carbon 12:50 - 16:00. (17:00) Replaced bag filters.
7/15/2014	9:00	Maintenance staff replaced bag filters. (20:00) Replaced bag filters again.
7/16/2014	0.79166667	Replaced bag filters. Bled air out of system.
7/17/2014	19:45	Replaced bag filters.
7/18/2014	16:00	Replaced bag filters.
7/20/2014	12:00	WTS not running. Running WTS manually to backwash both carbon filters. Restarted WTS; no alarms. 2.5" of rain in rain gauge.
7/21/2014	10:40	High pressure alarm on bag filters; shut down WTS; replaced bag filters. (14:15) Backwashed carbon unit #1. (14:30) Backwashed carbon unit #2. (15:00) Restarted WTS; reset startup alarms.
7/22/2014	7:00	Checked on Area 7 SPRW-702; started in manual then switched to auto. Pump started and continued to run. (14:00) Backwashed lead carbon unit. (15:00) Cleaned strainer at Area 3.
7/23/2014	8:00	Maintenance personnel on site to perform peroxide injection on carbon units.
7/24/2014	7:00	SPRW-702 not running; switched pump to off and then back to manual; pump started. (07:30) Backwashed carbon unit #1. (11:00) Backwashed carbon unit #2. (13:15) Started WTS in manual to inject peroxide into system.
7/25/2014	7:00	SPRW-702 not operating normally; variable frequency drive (VFD) has a fault; reported to maintenance. (10:00) Replaced VFD on SPRW-702.
7/28/2014	7:00	Reset overload alarm on P-55 effluent pump. (11:00) SPRW-702 pump still not operating normally. (13:30) SPRW-702 running in auto. (15:00) Replaced bag filters. (16:00) Restarted WTS; reset startup alarms.

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Date	Time	Activity
7/29/2014	7:00	Replaced bag filters. (07:45) SPRW-702 pump not running. Backwashed lead carbon unit. (11:00) Backwashed lag carbon unit.
7/30/2014	7:00	WTS not running. Backwashed carbon unit #1. (08:00) Restarted WTS; reset startup alarms; all ok. Maintenance on site. (12:30) Painted the Area 2 cleanout marking posts Safety Orange. (16:00) SPRW-702 pump running. (20:30) High pressure alarm on bag filter influent; shut down WTS from home.
7/31/2014	7:30	Backwashed carbon unit #1. (09:30) Air stripper flow meter not turning with flow; inspected and removed debris; restarted WTS; meter OK. (10:00) Backwashed carbon unit #1.(11:00) Backwashed carbon unit #2. (13:30) Backwashed both carbon units. (16:30) SPRW-702 not running; fuses blown.
8/1/2014	11:00	Backwashed carbon unit #1. (14:00) Backwashed carbon unit #2. Replaced SPRW-702 wiring harness and variable frequency drive. Switched power feed at Area 4 to a larger breaker and replaced wiring; Area 4 operational.
8/4/2014	8:00	WTS running. (09:25) Reset alarm on effluent pump P-56. (11:20) Collected sample from air stripper influent to analyze for total suspended solids and particle size distribution.
8/5/2014	8:00	Started WTS in manual. Maintenance on site at Areas 2 & 5. (10:10) Backwashed lead carbon; again at 11:20. (14:00) Backwashed lag carbon; again at 15:20. (16:00) Replaced bag filters.
8/7/2014	5:42	WTS running; 2 alarms on bag filter. (14:00) Pumps at SPRW-204 and -206 have pumped over 26,000 gal, but SPRW-205 meter shows no change. (16:30) Area 4 continues to run OK. (22:00) Alarm on bag filters; shut WTS down.
8/8/2014	3:00	Alarm on Area 5 Mission system. (07:30) Checked Area 5 and found no problem. (07:50) Started WTS in manual. (08:30) Backwashed lead carbon unit; again at 10:00; again at 11:45. (14:15) Backwashed lag carbon unit; again at 15:30. (15:30) Replaced bag filters.
8/11/2014	4:46	High pressure alarm on bag filters; shut down WTS. (07:30) Replaced bag filters. (08:00) WTS running with no alarms.
8/12/2014	8:30	Backwashed lead carbon; again at 10:000; again at 11:30. (13:00) Backwashed the lag carbon; again at 15:00. Opened a valve at the SPRW-205 flow meter; pump is running OK now. (15:40) Restarted WTS; all OK.
8/13/2014	8:00	High pressure alarm on bag filter; shut down WTS. (11:00) Backwashed lead carbon unit twice. (14:30) Backwashed lag carbon. (15:00) Replaced bag filters. Cleaned Area 2 strainer. (15:30) Flow meter on Air Stripper influent and HMI readout are out of sync again.
8/14/2014	22:42	Alarm on Area 5; cleared alarm; WTS not running due to low level in equalization basin.
8/15/2014	8:00	Alarm on lead carbon unit. (10:20) Backwashed lead carbon unit. (12:00 Backwashed lag carbon unit. (14:10) Edward Blanton on site to calibrate effluent flow meter. (15:30) Backwashed lead carbon unit. (16:00) replaced bag filters. Restarted WTS.
8/17/2014	13:00	High pressure alarm on bag filter. Manually shut down WTS.
8/18/2014	7:00	Replaced bag filters. Cleaned bag cages and housing also. (12:00) Submitted vapor intrusion request to Britton home.
8/19/2014	11:30	High pressure alarm on bag filters; replaced bag filters. (14:30) Backwashed lead carbon unit. (17:00) Restarted WTS; all OK.
8/20/2014	13:00	High pressure alarm on bag filters; replaced bag filters. (16:30) Backwashed lead and lag carbon units; set WTS for autostart once pond reaches minimum level. (17:43) Thunderstorms in the area tripped all lift stations; multiple alarms.
8/21/2014	7:00	Inspected all areas; normal operation - all OK. (16:00) High pressure alarm on bag filters; replaced bag filters and bled air out of system. Set system to autostart once pond reaches minimum level.
8/22/2014	9:30	Pump SPRW-206 not running; notified maintenance. (14:00) Backwashed lead and lag carbon units.
8/23/2014	0:42	High pressure alarm on bag filters; shut down WTS. (11:00) Replaced bag filters; backwashed lead carbon unit. (12:00) Restarted WTS; bled air out of bag filter unit; reset alarms; WTS running OK.
8/24/2014	7:30	High pressure alarm on bag filters; shut down WTS.
8/25/2014	7:00	Replaced bag filters. (07:40) Restarted WTS; normal operation. (11:30) Cleaned Area 3 strainer basket. (14:00) Continued fault on pump SPRW-206.
8/26/2014	7:00	High pressure alarm on bag filters. (07:30) Shut down WTS; replaced bag filters. (08:00) Backwashed lead carbon unit. Replaced one basket in the bag filter (broken at the welded seam). (10:00) Bagwashed lag carbon unit. (11:00) Restarted WTS; running normal; cleaned strainer at Area 2. (20:01) High pressure alarm on bag filters; shut off WTS from home.
8/27/2014	0.29166667	Replaced bag filters. (08:00) Restarted WTS; bled off air; no alarms. (08:30) Replaced 2 fuses on SPRW-206 pump; also need repair parts for sump pump #2; ordered repair parts (motor saver & motor starter. (22:00) High pressure alarm on bag filters; shut down WTS.
8/28/2014	10:30	Replaced bag filters. (12:40) Backwashed lead carbon unit. (14:11) Backwashed lag carbon unit. (16:00) Backwashed lag carbon filter.
8/29/2014	0:17	High pressure alarm on bag filters; shut down WTS. (09:00) replaced bag filters.
8/30/2014	18:00	Replaced bag filters; restarted WTS.
8/31/2014	0.03125	Overload alarm on effluent pump P-55; cleared alarm. (15:30) High pressure alarm on bag filters. (18:00) Replaced bag filters.
9/1/2014	15:30	High pressure alarm on bag filters; shut down WTS from home. (18:00) Replaced bag filters, cleared alarms, set WTS to autostart. (23:17) Overload alarm on effluent pump P-55; reset alarm.
9/2/2014	15:00	Performed hydrogen peroxide flush (55 gal) on WTS.
9/3/2014	7:00	Continued hydrogen peroxide flush. (13:40) Backwashed lag carbon unit using pond. (14:40) Backwashed lead carbon unit using pond. (17:00) Restarted WTS.
9/4/2014	7:00	Overnight storms tripped basin pumps and WTS shut down. (07:25) Cleared alarms and reset system; restarted WTS; no alarms. (15:20) Differential pressure high on bag filter; changed bags. (16:00) Restarted WTS; all OK.
9/6/2014	11:00	High pressure alarm on bag filters last night; Replaced bag filters. (12:40) Restarted WTS; all OK.
9/8/2014	7:00	High pressure alarm on bag filters last night; Replaced bag filters. (08:00) Restarted WTS; all OK.
9/9/2014	6:34	High pressure alarm on bag filters, high differential pressure on lead carbon unit. (07:00) Replaced bag filters. (08:30) Cleaned air stripper flow meter turbine assembly & removed debris. (15:00) Restarted WTS; all OK.
9/10/2014	0.19166667	High pressure alarm on bag filters. (07:45) Replaced bag filters. (10:00) Backwashed lead carbon. (11:00) Restarted WTS; all OK; flushed Area 2 strainer.
9/11/2014	1:22	High pressure alarm on bag filters. (08:00) Replaced bag filters. (11:00) Backwashed lag carbon. (14:00) Restarted WTS; all OK; Adjusted flow into WTS from 65 gpm to 100 gpm.
9/12/2014	7:00	High pressure alarm on bag filters last night. (07:30) Replaced bag filters. (08:30) Restarted WTS; backwashed lead carbon unit. (11:00) Backwashed lag carbon unit. Adjusted flow into WTS from 85 gpm to 100 gpm.
9/14/2014	10:00	High pressure alarm on bag filters; shut WTS down; replaced bag filters. (10:30) Restarted WTS; all OK.
9/15/2014	8:04	Overload alarm on effluent pump P-55; cleared alarm. (14:00) Flushed Area 2 strainer. SPRW-702 not producing as it has in previous months.
9/16/2014	7:00	High pressure alarm on bag filters; replaced bag filters. (10:00) Removed and replaced transducer from SPRW-702 (14:40) Backwashed lead carbon unit. (15:10) Restarted WTS; overload alarm on air stripper; reset alarm. (16:59) Overload alarm on effluent pump P-55; reset alarm; all OK.

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9/17/2014	7:00	High pressure alarm on bag filters; replaced bag filters. (09:15) Backwashed lag carbon unit. (11:15) Backwashed lead carbon unit. (12:20) Pump SPRW-702 cycles ON 20 minutes, OFF 8 minutes.
9/18/2014	5:25	Shut WTS down. (07:15) Pump SPRW-702 continues to run. (08:00) Replaced bag filters. (10:50) Backwashed lead carbon unit. (14:00) WTS set to start once it reaches minimum depth in the equalization basin.
9/19/2014	8:30	WTS running; all OK; over 1 inch in rain gauge. (08:45) High pressure alarm on bag filters; adjusted flow from equalization basin to WTS. (10:00) Backwashed lag carbon unit. (11:33) Restarted WTS; reset alarms; all OK.
9/21/2014	19:00	High pressure alarm on bag filters; replaced bags; restarted WTS; all OK.
9/22/2014	7:00	WTS running, no alarms; all OK. (13:56) Backwashed lead carbon unit. (14:55) Restarted WTS; reset alarms. (15:35) Backwashed lag carbon unit.
9/23/2014	7:00	High pressure alarm on bag filters; replaced bags. (15:15) Basin reached minimum level; restarted WTS; all OK.
9/24/2014	9:30	Cleaned Area 3 strainer. (09:48) Maintenance on site to repair Area 2 pumps. (15:00) Repositioned stabilization basin pump rig to relieve tension on discharge hose from aerator.
9/25/2014	9:47	Maintenance on site at Area 2. (15:30) Area 2 pumps running at full capacity. (16:00) Backwashed lead carbon unit and changed bag filters. Set WTS to start when basin reaches minimum depth.
9/26/2014	7:00	WTS running; all OK. (09:30) Anchored stabilization basin pump rig to center of basin with rope and cable. (10:00) Shut off basin aerator; monitoring dissolved oxygen. (11:00) Adjusted influent flow to WTS. (14:30) Left aerator off.
9/29/2014	0.29166667	Restarted WTS; all OK. (13:30) Backwashed lead carbon unit. (15:00) Backwashed lag carbon unit. (16:00) Replaced bag filters. (16:30) Restarted WTS; all OK. (16:45) Adjusted flow into air stripper.
9/30/2014	7:00	Aerator off. (09:52) Overload alarm on effluent pump P-55.
10/1/2014	0.45833333	Backwashed lead carbon unit; again at 15:45. (16:45) WTS set to start automatically once water in equalization basin reaches minimum depth.
10/2/2014	7:00	Started WTS; reset startup alarms. (07:30) Troubleshooting Area 3 sump, pumps, and flowmeter. (14:30) Adjusted flow to WTS.
10/3/2014	7:00	WTS running; no alarms. (11:00) Backwashed lead carbon unit. (11:30) Alarm at Area 5; checked - all OK. (13:30) Backwashed lead carbon unit. (14:40) Backwashed lag carbon unit. (15:05) Replaced bag filters. (15:45) Set WTS to auto-start.
10/6/2014	6:28	Restarted WTS; no alarms; all OK.
10/7/2014	7:11	Alarm on effluent pump P-56; cleared alarm; all OK. (15:00) WTS shut down--at the low level depth in the equalization basin.
10/8/2014	8:00	Started WTS in manual to prepare for backwashing. (08:30) Backwashed lead carbon unit - again at 11:40 and 15:00. (15:30) Replaced bag filters. (15:45) Purged air out of system; reset and cleared all alarms; WTS running; all OK.
10/9/2014	7:00	WTS running; all OK. (09:15) High differential pressure on lead carbon unit; purged tank; pressure was reduced from 7 psi to 2 psi. (11:00) Checked Area 2 sump pumps: Pump #1 ran all week (144.92 hrs), Pump #2 ran 3 hrs; raised floats to cause the pumps to switch. (13:00) Cleaned Area 2 strainer. Area 2 Pump #2 running. (15:09) Overload alarm on effluent pump P-56; cleared alarm. (15:13) WTS shut down due to low level in equalization basin.
10/10/2014	9:00	Started WTS in manual to prepare for backwashing. (09:30) Backwashed lag carbon unit - again at 10:45. (13:20) Backwashed lead carbon unit - again at 14:30. (15:00) Restarted WTS and reset alarms; all OK.
10/13/2014	7:00	High differential pressure alarm on bag filters last night shut WTS down. Replaced bag filters, washed baskets, and backwashed lead carbon unit. (08:30) Restarted WTS; reset startup alarms; all OK. (16:30) Over an inch of rain in the gauge.
10/14/2014	7:30	WTS running; all OK. (08:30) Heavy rain passing through the area. (10:45) Started aerator in the basin.
10/15/2014	8:00	Alarm on Area 5; all OK. (08:05) High differential pressure alarm on bag filters. (08:30) Backwashed lead carbon unit, again at 10:10. (11:30) Backwashed lag carbon unit. (12:30) Adjusted flow to WTS. (14:00) Replaced bag filters. (14:30) Disassembled and removed piece of fabric debris from air stripper flow meter turbine.
10/16/2014	10:53	Overload alarm on effluent pump P-55; cleared alarm. (15:47) High pressure alarm on bag filter; replaced bag filters, bled air out of system. (16:30) Set WTS to start once equalization basin reaches minimum depth.
10/17/2014	6:52	WTS started; reset startup alarms on bag filter; all OK. (15:45) Backwashed lead carbon unit. Set WTS to start once equalization basin reaches minimum depth.
10/20/2014	7:30	Replaced bag filters. (08:30) Restarted WTS; reset startup alarms. (11:45) Low pressure (12 psi) at air stripper sump; trimmed tubing to gauge (needs replacement); pressure increased to 20.5 psi. (13:40) Backwashed lead carbon unit.
10/21/2014	7:30	Cleared overload alarm on effluent pump P-55. (10:00) Replaced tubing at air stripper sump.
10/22/2014	16:30	Water leaking out of exhaust on top of air stripper; pressure is 22.5 psi - may be the problem. (21:03) Cleared overload alarm on effluent pump P-56.
10/23/2014	5:35	Cleared overload alarm on effluent pumps P-55 and P-56. (16:35) WTS shut down due to low level in basin.
10/24/2014	11:15	WTS restarted when basin depth reached the startup level; no alarms. (12:50) Backwashed lead carbon unit; again at 14:00. (15:20) Backwashed lag carbon unit. (15:40) Replaced filter bags. (16:30) Reset alarms; purged carbon units and bag filter; WTS running; all OK.
10/27/2014	8:00	Restarted WTS after weekend shutdown; no alarms; all OK.
10/28/2014	13:30	Cleaned Area 3 strainer (full of leaves); covered the hole to the Area 3 sump to prevent leaf intrusion.
10/29/2014	10:15	Backwashed lead carbon unit; again at 11:45 and 13:00. (15:45) Backwashed lag carbon unit. Replaced bag filters.
10/30/2014	9:30	Continuing to monitor Area 3. Pump 1 running 95 psi at 38 gpm.
10/31/2014	10:00	Switched Area 2 from pump #1 to pump #2. (14:00) Backwashed lead carbon unit.
11/3/2014	8:30	Shut down WTS on 11/1. Temperature ~30° F. Opened spray bar, purged ice out of system. Restarted WTS.
11/4/2014	0:00	Shut down WTS due to high bag filter pressure. (07:30) Restarted WTS; bag filter pressure high but not at alarm level. (16:45) Backwashed lead carbon unit. (17:15) Replaced bag filters; restarted WTS and cleared startup alarms.
11/5/2014	2:00	Alarm on air stripper effluent pump P-55; cleared. (09:30) Verified that Area 2 system is rotating pumps properly. Area 3 pump 1 is running at 92 psi and 38 gpm.
11/6/2014	7:00	WTS shut down due to low level in equalization basin. All OK.
11/7/2014	11:00	WTS running; no alarms; WTS influent is reading 40 gpm (low); shut down WTS to check flow meter. (12:00) Removed chopped up leaves from flow meter impeller with high-pressure hose. (14:00) Backwashed lead carbon unit. (14:50) Replaced bag filters. (15:15) Restarted WTS and purged bag filters and carbon filters. (16:30) Cleaned leaves out of equalization basin.
11/8/2014	6:35	Shut down WTS manually; leaves are clogging the influent flow to the air stripper.
11/10/2014	8:00	Cleaned air stripper flow meter. (08:20) Restarted WTS; reset startup alarms. (11:00) Cleaned leaves out of equalization basin. (13:00) Air stripper pumps P-53 and P-54 running at high percentage (not normal). Removed cap on check valve at P-53 to inspect for leaves; found nothing. (14:30) Shut WTS down and cleaned out the air stripper sump - full of chopped up kudzu leaves. (126:00) Restarted WTS and reset startup alarms; all OK.

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Date	Time	Activity
11/11/2014	14:00	WTS running. Air stripper feed pumps P-53 & P-54 struggling to keep up with equalization basin pump at 88 gpm. (14:30) Shut down WTS, drained stripper sump to inspect for debris. (15:30) Backwashed lead carbon unit. (15:45) Replaced bag filters. (16:00) Cleaned air stripper flow meter and purged line.
11/12/2014	10:00	WTS running; all OK; system running at 80 gpm. (10:30) Shut off aerator. (14:00) Skimmed leaves from equalization basin.
11/14/2014	13:58	Backwashed lead carbon unit. (14:30) Replaced bag filters. (15:30) Restarted WTS and purged air out of system. (15:45) Set WTS to auto start.
11/17/2014	12:30	WTS running; all OK. 1.5" of rain in the gauge.
11/19/2014	9:00	WTS not running due to low level in equalization basin. Replaced valve at end of equalization basin spray bar that froze due to overnight temperatures in teens. Reset high pressure alarm in bag effluent.
11/21/2014	11:00	Backwashed lead carbon unit (again at 12:00 and 13:00); Dissolved oxygen out of range (high). (12:00) Acknowledged mission system alarm on Area 2. (14:00) 2-inch valve is cracked (frozen) on the spray bar in the equalization basin. (15:05) Backwashed lag carbon unit (again at 15:40). (16:15) Replaced bag filters; cleaned flow meter to air stripper.
11/24/2014	13:00	Differential pressure on lead carbon unit is 9.0 psi (above limit). (13:43) Backwashed lead carbon unit.
11/25/2014	12:30	Started WTS to prepare for backwash. (14:00) Backwashed lead carbon unit. (14:15) Restarted WTS, reset alarms, all OK.
11/26/2014	0.58333333	Cleaned Area 3 strainer, purged air out of pumps and system; Area 3 running 90+ psi at 38 gpm.
11/30/2014	12:15	Backwashed lead carbon. (13:15) Replaced bag filters. (14:00) Restarted WTS, purged air out of system, reset startup alarms. (14:15) Cleaned Area 2 strainer.
12/1/2014	7:00	WTS running; all OK.
12/3/2014	14:55	Backwashed lead carbon unit; again at 16:30.
12/4/2014	8:00	Backwashed lead carbon unit; again at 09:00 and 14:50.
12/5/2014	8:30	High differential pressure on lead carbon unit. (12:30) Backwashed lead carbon unit; again at 14:00. (15:15) Backwashed lag carbon unit. (16:15) Changed bag filters. Restarted WTS in manual to bleed air out of system. Set system to autostart once water in equalization basin reaches minimum depth.
12/8/2014	7:30	WTS running OK; no alarms. (08:00) WTS shut down due to low level in equalization basin. (08:15) Backwashed lead carbon unit. (17:30) Area 2 SPRW-205 recovery well pump tripped out on panel; reset system; SPRW-205 running again.
12/10/2014	11:00	Backwashed lag carbon unit; again at 12:57. (14:10) Backwashed lead carbon unit.
12/11/2014	7:30	Started basin pump P-52 manually to ensure spray bar and supply line to WTS were not frozen. (10:00) Air release leaking on pump cart for pump P-52; top is cracked from being frozen. (16:30) Shut down WTS, bled water out of spray bar and replaced air release.
12/12/2014	8:00	Backwashed lead carbon unit. (11:30) Restarted WTS after temperature increased above freezing. (13:45) Adjusted flow into WTS; system running OK.
12/15/2014	3:30	WTS shut down due to high bag pressure alarm. (08:00) Replaced bag filters. (10:30) Restarted WTS to bleed air out of bag filter and fill effluent tanks for backwash. (11:00) Backwashed lead carbon unit. (12:30) Restarted WTS; all OK.
12/16/2014	9:05	Shut down WTS to install strainer on WTS supply line from equalization basin.
12/17/2014	8:00	Removed top covers off both carbon units. (09:00) Backwashed both carbon units. (17:00) Replaced bag filters. WTS running; all OK.
12/18/2014	6:54	Pump runtime variance report on Area 2 sump pump #2. (10:30) Checked Area 2: Pump #2 running; switched to Pump #1 and monitored. (15:30) Lead carbon pressure and differential pressure high. (16:00) Backwashed lead carbon unit. Ran system manually to check pressures and purge system. (16:40) Set WTS to automatic start once basin depth is sufficient.
12/19/2014	6:34	Pump runtime variance report on Area 2 sump pump #2. (09:00) Checked Area 2: sump running on Pump #1; all OK. (10:50) Restarted WTS; no alarms; pressure normal. (13:00) Cleaned Area 3 strainer.
12/22/2014	7:45	Adjusted flow to WTS (pressure high on lead carbon filter). (12:30) Differential pressure is high (> 8 psi) on the lead carbon filter; backwashed lead carbon filter. (14:00) Backwashed lag carbon filter. (14:45) Manually started WTS to reset alarms and purge system. Set WTS to autostart once basin depth is sufficient.
12/23/2014	8:15	Purged strainer on the equalization basin supply line to the WTS. (10:30) Purged Area 2 strainer. (20:15) Overload alarm on effluent pump P-55; reset alarm; all OK; WTS running.
12/24/2014	8:00	WTS shut down due to low level in equalization basin. Started WTS manually to prepare for backwashing; replaced bag filters. (09:36) Backwashed lead carbon unit. (10:55) Backwashed lag carbon unit. (11:30) WTS running; all OK.
12/29/2014	8:00	WTS shut down due to low level in equalization basin. Started WTS manually to prepare for backwashing. (08:30) Backwashed lead carbon unit. (09:15) Started WTS; cleared alarms; all OK. (14:10) Overnight power failure alarm at Area 4, 5, and 7; checked--all OK. (14:30) Checked Area 2: SPRW-204 and -205 were tripped; reset alarms and all running normal. (14:45) Area 3 generator in alarm; reset & test-ran pumps; all OK.
12/31/2015	9:15	Backwashed lead carbon unit; again at 10:10, 11:35, and 13:10. (14:15) Backwashed lag carbon unit. (16:00) Replaced bag filters.
1/2/2015	8:30	Inspected WTS; purged spray bar and strainer in the basin; all OK. (09:00) Started WTS; reset startup alarms; purged carbon filters; adjusted flow to system. (12:30) Backwashed lead carbon filter. (13:30) Backwashed lag carbon filter.
1/3/2015	6:00	High differential pressure on bag filters; shut down WTS. (10:30) Replaced bag filters; reset startup alarms; adjusted flow to WTS; purged strainer and spray bar at equalization basin; WTS running OK. (18:00) High differential pressure on bag filters and lead carbon filter.
1/4/2015	18:00	High differential pressure on bag filters and lead carbon filter.
1/5/2015	7:30	Backwashed lead carbon unit and replaced bag filters. (11:45) Backwashed lead carbon unit; again at 13:35. (14:00) Water level high in equalization basin: increased flow to WTS.
1/6/2015	7:30	WTS running; (10:00) Backwashed lead carbon unit; again at 11:30 and 13:30. (12:00) Backwashed lag carbon unit. (12:40) National Power Corporation on site to inspect Area 3 generator. (14:30) Replaced bag filters.
1/7/2015	11:00	Backwashed lead carbon filter. (14:00) Reset overload alarm on effluent pump P-55. (16:30) Removed gauges from strainers in equalization basin to prevent freezing.
1/8/2015	11:30	Cleaned strainer at equalization basin. (12:30) Removed ice from spray bar.
1/9/2015	11:00	Manually started equalization basin pumps to purge spray bag and check flow. (11:30) Backwashed lead carbon unit.
1/12/2015	8:15	Started equalization basin pumps to purge; checked flow on spray bar and purged Y-strainer; all OK. (08:30) Restarted WTS; checked pressure and flow; all OK. (13:30) Backwashed lead carbon unit. (14:45) Backwashed lag carbon unit. (15:30) Replaced bag filters.
1/20/2015	7:00	WTS running; (8:28) Overload alarm on effluent pump (P-56) and switched to pump (P-55) and continued to run; (11:00) Cleaned WT area for client visit; (15:15) Overload alarm came on pump (P-55) and reset alarm. WTS running.
1/21/2015	7:00	WTS shutdown on arrival; WTS is okay. Checked pond level and it was at its lowest level; (9:00) Site visit with project team and client; (14:00) Cleaned flow meter at air stripper; (14:30) Checked areas 2, 3, 4, 5, and 7 and all was operating normal.

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Date	Time	Activity
1/22/2015	7:00	WTS not running upon arrival; (7:30) started WTS and monitored pressure and flow; (9:00) Client onsite for biannual visit; (10:00) Area 3 was shut down to clean strainer; (13:30) Checked Area 5 depth to sediment at Stormwater runoff sump
1/23/2015	8:00	WTS running; (8:30) Shutoff effluent pump to BW; (9:00) Backwashed lead carbon filter; (10:30) Backwashed lag carbon unit; (15:00) Checked areas 2, 3, 4, 5, and 7 and all was operating normal. 1 inch of rain in rain gauge; (15:30) Replaced bags; (16:00) WTS is not running. Pond level is low. Drained spray bar.
1/24/2015	8:00	(8:00) WTS down overnight. Manually started pond pumps and flushed out spray bar and strainer; (8:30) Alarm in Area 5 and checked on area. Everything was okay; (9:00) WTS started and running with no alarms - all OK.
1/25/2015	14:52	Overload alarm. Cleared alarm and started WTS; (19:30) WTS Shutdown on low level in pond
1/26/2015	7:30	Pond level too low to start up WTS; (8:30) Checked areas 2, 3, 4, 5, and 7 and all was operating normal; (12:30) Started WTS manually to BW filters; (13:30) Backwashed the lead carbon filter; (15:00) Replaced bag filters; (15:45) WTS not running as pond level is below startup level Will start later tonight.
1/27/2015	7:30	WTS running with no alarms; (9:00) Checked Area 5 in search of SWMW-6; (12:30) Returned to Area 5 to search for SWMW-6 and cut vines from fence; (13:30) Checked areas 2, 3, 4, 5 and 7 and everything is okay; (15:00) Checked pond, purged out strainer, and adjusted flow; (15:30) WTS Shutdown for the night.
1/28/2015	7:30	WTS Shutdown until temperature increased; (8:30) Area 2 sump pumps shut down. Checked supply line to WTS and checked wells and sump and all is okay; (9:00) Manually ran pond sumps to check spray bar and feed to WTS; (10:00) Started WTS and reset alarms; (11:00) Adjusted flow to WTS; (13:00) Checked areas 3, 4, 5, and 7 and all areas are operating normal; (15:00) WTS is running well, and adjusted flow on influent of WTS; (16:00) Letting WTS run overnight. Checked all pressures and pond level has enough water.
1/29/2015	7:30	WTS is running and there are no alarms; (9:00) Flushed out strainer at pond; (1033) High pressure alarm at bag filter. Shut off effluent pumps to prepare for backwash of carbon filters; (11:10) Shut down WTS. Replaced bags; (11:30) Backwash lead carbon filter; (13:50) Backwash lag carbon filter; (15:00) Backwash lead carbon filter; (15:30) WTS is shut down and water is drained out of the spray bar and strainer.
1/30/2015	7:30	WTS not running. Checked WTS and pond area. Started pond pumps to purge and check flow. (8:00) Water level pond is above operating level. Started WTS and monitoring; (8:30) Cleared one alarm on air stripper blower; (9:00) Cascade Drillers onsite; (14:30) Checked area 2, 3, 4, 5, and 7 and all are operating normal; (15:30) WTS shutdown and spray bar drained.
2/1/2015	10:00	Shut down WTS at 00:19 this morning. Replaced bag filter; (11:00) Started WTS, reset startup alarms; purged out air in WTS. WTS is running okay.
2/2/2015	7:00	WTS is running. All is okay. (8:00) Inspect fire extinguishers. (9:00) Grab monthly samples. Check WTS and all is okay. Check areas 2, 3, 4, 5, and 7 and all is okay. (12:30) Trim vegetation at pond area. (13:30) Flush strainer at pond. (14:30) Remove leaves from pond. (15:30) Fill effluent tank and shut WTS down. Water leve in pond is low. (16:00) WTS Stopped. Spray bar drained.
2/3/2015	7:30	WTS not running. (8:00) Set up WTS to back wash lead carbon filter; (9:00) Backwashed lead carbon; (11:30) Backwashed lead carbon; (13:45) Backwashed lead carbon; (15:00) Replaced bag filters, started WTS, purged bag filter and carbon filters; (15:30) Cleared up all startup alarms and all is okay, WTS is running.
2/4/2015	7:30	WTS is running; (7:35) Overload alarm on pump (P-56), reset alarm and system is okay; (8:00) Checked pond, flushed out the strainer at the pond and all is okay; (9:30) Area 2 - tree fell across part of the site and so the tree was removed; (13:00) At the water treatment building, cleaned inside and outside, and used bag filters put in storage building; (14:30) Impacted areas 2, 3, 4, 5 and 7 all operating normal. There is one issue at Area 7 where Well # SPRW-701 has been running for several days and the flow is very slow; (15:30) Checked WTS, pressure, and flow and all is okay. Continue running overnight.
2/5/2015	7:30	WTS shutdown (5:00); Checked pond and WTS area and all is okay. Drained spray bar to prevent freezing; (9:00) Manually running WTS to prep for backwash of carbon filters; (13:00) Backwashed lead carbon filter; (14:30) Backwashed lag carbon filter; (15:30) WTS down, pond level is too low to start in automatic. Leaving system shut off because of cold temperatures tonight. Drained spray bar and strainer to prevent freezing.
2/6/2015	8:00	WTS down. Inspected pond and WT building and all is okay; (10:30) Started WTS, adjusted flow, purged ice out of spray bar and strainer before startup; (12:30) Checked areas 2, 3, 4, 5, and 7, and all is operating normal; (14:00) Backwashed lag carbon filter; (14:30) Replaced bag filters, purged system out and adjusted flow reset alarms; (15:15) WTS running and all is okay.
2/9/2015	7:30	WTS is not running; (7:45) Purged out spray bar and strainer before startup; (8:00) Started WTS and monitored flows and pressures; (9:00) Checked WTS and normal operations. Checked areas 2, 3, 4, 5, and 7 and all is okay; (13:00) Purged strainer from Area 2; (14:00) Checked WTS, pressure increases at the bag filters, monitoring system; (15:30) Shut down WTS to replace filter bags; (16:00) Start WTS, purged out air at the bag filter.
2/10/2015	7:30	WTS running; no alarms. Checked system and all is okay; (9:00) Checked and purged strainer at the pond and adjusted flow; (13:30) Cleaned vines off gate. (14:45) Checked WTS and adjusted flow again. (15:50) WTS running and continue to monitor.
2/12/2015	8:00	WTS is down; (8:15) Manually ran pond pumps to check flow; (8:30) Started WTS and monitored pressures; (9:30) Cleared alarm on Carbon Filter Unit 1; (11:00) Checked areas 2, 3, 4, 5, and 7 and all is operating normal with no alarms; (12:45) Shut off effluent pumps to backwash carbon; (13:05) Backwash lead carbon filter; (14:40) Backwash lag carbon filter; (15:00) Replaced bag filters; (15:30) Started WTS. Purged air out of bag filter and both carbon units; (15:45) Cleared alarms.
2/13/2015	8:00	WTS running and no alarms; (9:00) Purged out strainer at the pond and area 2. Adjusted flow to WTS; (11:00) Checked areas 2, 3, 4, 5, and 7. All is operating normal and no alarms; (13:00) Cleaned building at WTS and removed used bags (filters); (14:00) Increased flow to WTS so pond level would be as low as possible; (15:30) Shut off WTS and drained spray bar and strainer, to prevent freezing over the weekend.
2/15/2015	14:15	WTS down. Flushed water through spray bar by manually running P-51/P-52 pond sumps; (15:00) Started WTS, reset startup alarms and monitored system; (15:30) High pressure on bag filters. Shut down WTS and replaced bag filters; (16:00) Started WTS, checked pressures and all is okay. WTS is running.
2/16/2015	7:30	WTS is running and there are no alarms; (8:00) Purged strainer at pond; (8:45) Inspect WTS and areas 2, 3, 4, 5, and 7 and all is okay. Check area 3 vault; (12:30) Backwashed lead carbon filter; (13:40) Backwashed lead carbon filter; (15:00) Backwashed lag carbon filter; (15:30) Started WTS, purged system, and reset all alarms and all is okay.
2/17/2015	12:00	WTS running and no alarms; (12:30) Checked strainer at pond, purged to remove contamination and all is okay; (13:00) Adjusted flow to WTS; (14:00) Checked area 2 - Pump 2 is tripping breaker (Pump SPRW-205) would not reset; (1530) Shut down WTS because of cold temps tonight; (16:00) Drained spray bar and strainer
2/18/2015	8:00	WTS not running and checked area, purged spray bar. Manually ran P-51 and P-52 to check flow and remove contaminants; (9:30) Started WTS and reset alarms. All is okay; (10:40) Adjusted flow to WTS; (13:20) Checked area 2 - SPRW205 tripped. All others at area 2 are okay. Checked areas 3, 4, 5, and 7 and all is okay; (14:00) Area 5 - Reset alarm on the storm water runoff sump; (16:00) Shut down WTS, drained spray bar and strainer.

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2/19/2015	8:00	WTS down; (930) Backwashed lead carbon filter; (1030) Area 2 - checked SPRW205. Reset well pump. Cleared tree blocking road. All is okay in Area 2; (1140) Ran pond pumps P-51/P-52 manually purged out ice and checked flow; (1230) Started WTS. The Feed pump P-53 tripped and WTS shutdown. It won't reset, so had to call electrician; (1400) Started WTS manually. Effluent pumps are not running in auto; (1600) Shut down WTS and drained spray bar.
2/20/2015	8:00	WTS has alarms that disabled the air stripper. WTS will not run. (8:30) Called Rick Cassel and discussed the problems with the WTS; (900) Shut off three wells at Area 2, the area 5 sump pumps, Area 7 and 4, and also the stormwater runoff sump; (11:11) Checked the power panels at the WTS; (14:00) Shut off spray nozzles at the pond, Started the WTS (P-52) in manual; (14:30) Drained air stripper and removed inspection plate and checked for ice; (15:00) Checked strainer at the pond for ice; (15:30) Adjusted air flow on the blower intake.
2/21/2015	11:30	WTS is not operable; Continue to monitor pond level; (1230) Checked areas 2, 4, 5, and 7. In Area 2, the sump is running. In area 5, the sump is not running and all wells are off. Monitoring sump level and all is okay. Cut and removed fallen trees.
2/22/2015	14:30	WTS is not operable. Monitoring pond level. In Area 5, there is a high level alarm on the storm water runoff sump. Reset alarm and sump is off; Area 2, 3, 4, and 7 is all okay.
2/23/2015	7:00	WTS is not running. Waiting for maintenance; (830) Started WTS, reset alarms, monitor and adjust flow to WTS; (915) Running with normal operations. Check areas 2, 3, 4, 5, and 7 and all is okay; (930) At area 2, started the wells. SPRW-206 tripped the breaker; (10:00) Area 5 - started 701, 702, the sump, and also the Storm water runoff sump; (1530) At area 2, well pump 2 and 3 (205-206) are not running and tripped out. Reset both pumps and all is okay; (1645) WTS running at 125 gpm. Will continue at that flow rate and monitor system.
2/24/2015	8:00	WTS is running and all is okay; (9:00) The bag differential elevated while monitoring WTS; (1030) WTS running at 125 gpm to reduce pond level; (1300) Check site; (1530) Cleaned water treatment building.
2/25/2015	7:30	WTS is running. There is a high pressure alarm on bag filter and continue to monitor; (8:30) Check areas 2, 3, and 5; (9:30) TWT onsite to survey Area 2; (1238) Alarm on effluent pump P-55. Reset alarm. WTS switched to P-56; (1500) Assisted Joe Hambrick by collecting a sample from Area 3 sump.
2/26/2015	10:00	WTS is running. Reset alarm on carbon filter; (12:00) Check areas cleared by Morgan Coop; (16:00) Shutdown WTS and drained the spray bar to prevent freezing.
2/27/2015	7:30	WTS is down. Checked pond and system and all is okay; (08:00) Started pond pumps manually to check flow and purge out ice and contaminants and all is okay; (08:30) Started WTS and cleared startup alarms; (09:30) Cleaned Waste Treatment area; (10:00) Shut off effluent pumps and prepare for backwash; (10:30) Backwashed lead carbon filter; (11:00) Clyde Hall (electrician) is onsite for Area 3; (11:40) Backwashed lead carbon filter; (13:00) Backwashed lead carbon filter. Clyde Hall (electrician) is offsite. He completed the install of upgrade to mission system at Area 3 and all is okay; (Backwashed lag carbon filter. Checked areas 2, 5, 7, and 4 and all is okay. Area 3 shut down and clean strainer; (15:00) Started WTS and cleared alarms and all is okay; (15:15) Adjusted flow to WTS.
2/28/2015	16:00	WTS is running and pond level is low. Shut off WTS and drained spray bar to prevent freezing.
3/2/2015	7:30	WTS down. Started WTS on hand at the pond sumps. P-51 check valve is not checking. Closed gate valve on P-51 side of configuration. The valve was checked and all is okay. Replaced bag filters; (8:00) Started WTS and cleared alarms; (845) Check WTS and all is okay. Grab monthly quarterly semiannual and annual samples. Check areas 2, 3, 4, 5, and 7 and all is okay; (1300) In Area 2, SPRW-205) is not running. Reset system and all is okay; (1450) Monthly fire extinguishers inspection; (1500) Checked WTS and all is okay. Continue to run overnight at 100 gpm.
3/3/2015	7:30	WTS running and no alarms; (830) Flushed strainer at the pond to remove debris from the system; (10:00) Checked Area 2 and all wells (SPRW-204-205-206) are running normal; (1230) Cleaned water treatment building; (1345) Cleaned wood chips at Area D access road to Area 3 and landfill; (1600) Checked WTS pressures and all is okay and will continue running; (1858) Effluent pump (P-55) overload alarm, auto switched to P-56, reset/cleared alarm in system.
3/4/2015	7:30	WTS running and no alarms; (8:08) WTS shut off at low operating level in pond; (9:00) Removed strainer at pond and cleaned; (10:00) Removed strainer from Area 2 and cleaned; (11:00) Cleaned sampling materials from sampling event at Area 3; (12:30) Checked Area 5, 701, 702, pump 2 in the sump and the storm runoff sump all running normal; (1330) Checked Area 2 sump and wells running okay, well SPRW-206 indicator light is not working. Have to open vault and check flow meter; (14:00) Area 3 running normal; (14:30) Area 4 is running normal; (15:00) Terrasonic onsite delivering equipment for well drilling event; (1530) WTS not running and pond level is low
3/5/2015	7:30	WTS is down. Checked pond and system and all is okay. Terrasonic is onsite; (800) Replaced bag filters and started WTS. Monitoring flow and pressure; (8:30) Terrasonic delivered more equipment (900) Checked flow to WTS and adjusted flow to 100 gpm. Removed used filter bags from WTS building; (11:00) FedEx on site with delivery of sampling materials; (1200) Preparing system for backwash; (1300) Backwashed lead carbon filter; (1345) TWT is onsite; (1430) Backwashed lag carbon filter; (1630) Started WTS, reset alarms, purged carbon filter and all is OK; (1700) Adjusted flow to WTS to 100 gpm.
3/6/2015	7:30	WTS is running and checked system and pond and all is okay. TWT is onsite; (800) Flushed out strainer at the pond; (900) Cleaned water treatment building; (1000) Checked Areas 2, 3, 4, 5, and 7 and all is OK; (12:30) TWT is offsite; (13:30) Shut off WTS to replace bag filters. Drained spray bar to prepare for cold temperatures overnight; (1600) WTS is not running and pond level is low.
3/8/2015	10:33	Tried to start WTS from home. P-52 tripped. (11:00) Came to site to reset alarms. WTS is running and no alarms.
3/9/2015	7:30	WTS is running. Reset alarm last night, overload alarm on P-56 at 19:04 yesterday. Team is onsite for drilling event (8:00) Checked pond and purged out strainer; (830) Inspect WTS and Areas 2, 3, 4, 5, and 7 and all is okay. Normal operations; (13:00) Cleaned area inside water treatment building; (14:00 Cleaned Area 2 for strainer; (1530) Checked WTS, flow and pressure, and all is okay. Continue to operate.
3/10/2015	7:30	WTS is running. Effluent pump (P-55) with overload alarm. Switched to P-56. (8:46) Bag filter alarm; (9:46) Shut off effluent pumps to fill effluent tank for backwash; (11:06) Backwashed lead carbon . Continued filling tank for backwash; (13:45) Backwashed lag carbon; (14:30) Cleaned dissolved oxygen probe; (15:30) Replaced bag filters and purged out system. Cleared all alarms. Set WTS to on position. WTS will start later when pond gets to high operating level.
3/11/2015	7:30	WTS is running. Checked pond; (8:15) A&E onsite. Well rehab at Area D, 3, and 7; (1200) Checked WTS and pond area and all is okay; (1400) Checked areas 2, 3, 4, 5, and 7 and all is okay; (1530) Checked WTS and pond. All is running okay.
3/12/2015	7:30	WTS is shut down; (1020) Backwashed lead carbon filter; (1230) Backwashed lead carbon filter; (1345) Backwashed lag carbon filter; (1420) Started WTS manually to purge filters; (1530) WTS set to start based on pond level.
3/13/2015	7:30	WTS shut down overnight at 23:30. High DP in bag filter. Replaced bags; (840) Started WTS, purged air out. Reset and cleared alarms. All is okay; (930) Adjusted flow to WTS; (1000) Cleaned strainer at the pond; (1100) Checked Area 5 - 701, 702, #5 sump, and storm water sump and all is okay; (1400) Checked Area 2 and all is operating normal. Checked Area 3 pump #1 and it is running. Pressure is fluctuating between 60 psi and 100 psi at 22 gpm to 30 gpm. Will continue to monitor; (1530) Checked WTS and all is well. Running is normal.
3/14/2015	16:00	WTS shut down.

Table 3. Operations and Maintenance Chronology, OU1 Treatment Systems
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

Date	Time	Activity
3/16/2015	7:30	WTS is not running upon arrival. Checked area. Pond is at third float and all is okay; (800) Started WTS and monitor pressure; (845) Inspect WTS and Areas 2, 3, 4, 5, and 7. All is okay with normal operations; (1213) High DP alarm on bag filter; (1315) Shut off effluent pumps to prep for backwash; (1400) Backwash lead carbon filter; (1515) Backwash lag carbon filter; (1530) Replaced bag filter; (1545) Purged bag and carbon filters. Reset alarms and WTS is running.
3/17/2015	7:30	WTS is running and all is okay. Checked area; (930) Purged strainer from Area 2 and cleaned inside of waste treatment; (1030) Cleaned office; (1140) Flushed strainer and checked flow to WTS; (1245) Sprayed weeds and vegetation around pond and water treatment building; (1530) Checked WTS, pressure is good. Purged strainer at pond and all is okay. WTS is running.
3/18/2015	7:30	WTS is running. Flushed strainer at pond; (10:00) Area 5, Well 701-702 and 4 running; (1100) Area 2 wells 204, 205, and 206 running normal. Area 3 and all is ok; (1200) WTS shut down at low operating level. Clean strainer; (1300) Started WTS manually to backwash; (1330) Cleaned DO probe at pond; (1430) Backwashed lead carbon; (1530) Backwashed lead carbon. Pond level is low and WTS is down.
3/19/2015	7:30	WTS is not running. Checked pond and WT area; (830) Replaced bag filters; (930) Bled air out of the carbon and bag filters. Flushed Area 2 strainers and strainer at the pond; (945) WTS is running; (1100) Adjusted flow to WTS to 100 gpm; (1300) DP is high on lag carbon filter unit. Filling effluent tank to BW; (1400) Backwash lag carbon filter; (1500) Backwashed lead carbon filter; (1530) Started WTS, purged filter and cleared alarms and all is okay.
3/20/2015	5:41	High pressure alarm on bag filter; (730) WTS is running. Shut off effluent pumps to fill effluent tank to BW. Checked area; (800) WTS shut down. Effluent tank is full; (820) Backwash lead carbon filter; (930) Replaced bag filters; (1000) WTS in manual. Continue BW; (1100) Backwash lead carbon filter; (1340) Backwash lead carbon filter; (1500) Backwash lag carbon filter; (1530) Checked areas 2, 3, 4, 5, and 7 and all is okay; (1545) WTS set to start when level in pond reaches designated start level.
3/21/2015	-	WTS shut down at low level. Logged onto system and shut off stripper.
3/23/2015	7:30	WTS is not running. Checked area; (800) Started WTS and purged pond strainer. Monitoring system. Check WTS and all is okay; (900) Check areas 2, 3, 4, 5, and 7 and all is okay with normal operations; (1230) Area 3 - Shut down system and cleaned strainer; (1400) Backwashed lead carbon filter; (1430) Replaced bag filter; (1500) Started WTS, purged air out of system. Monitored flow and pressure; (1530) Adjusted flow to WTS; (1600) WTS is running.
3/24/2015	7:30	WTS running and checked Waste Treatment and pond; (900) Cleaned WT area and removed used bags; (1100) Sprayed vegetation; (1300) Continue spraying weeds on fence; (1400) Hauled used bags; (1530) Checked WTS and all is OK.
3/25/2015	7:30	Checked area. Pond at lowest operating level; (830) Started WTS in manual to backwash; (900) Site safety briefing with TSI; (930) backwash lead carbon; (1200) Checked areas 2, 3, 4, 5, and 7 and all is okay; (1345) Backwashed lead carbon; (1500) Backwashed lead carbon; (1545) Replaced bag filters. Manually started WTS to purge air out, set to start, and reset alarms; (2233) WTS started.
3/26/2015	7:30	WTS running and checked areas; (830) Flushed strainer at pond; (1000) Cleaned WTS area/building; (1030) Adjusted flow to WTS; (1300) Checked WTS flow and pressure, flushed area 2 strainer; (1400) Hauled used bags to storage; (1415) Morgan Corp. on site to deliver a dozer; (1530) WTS running.
3/27/2015	7:30	WTS not running and checked area; (830) Checked the strainer at the pond and removed and cleaned out debris; (900) Checked Area 5 and all is okay; (1000) Conference call for annual sampling; (1130) Cleaned Area 2 strainer; (1330) Started WTS manually to check pressures and DP; (1400) Backwashed lead carbon filter; (1445) Replaced bag filter and also washed baskets and bag housing; (1545) Checked areas 2, 3, 4, and 7 and all is okay; (1600) WTS not running
3/30/2015	7:30	WTS not running. Started pond pumps manually to purge system before startup; (800) Start of Annual Sampling Event; (845) Check WTS and Areas 2, 3, 4, 5, and 7 and all is okay. Normal operations; (1300) Assisted in well locations at Area 3: (1430) High pressure alarm on bag filters. Shut off effluent pumps to backwash while changing bags; (1500) Backwash lead carbon filter; (1600) Replaced bag filters and started WTS. Bled air off bag filter and reset alarms. Assisted in well sampling; (1730) Checked WTS and all is okay.

Table 4. Summary of System Performance Data
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

Sample ID	Location	Date	Concentration (µg/L)					
			DCE	TCE	PCE	PCBs	Iron	pH
C2.0	Area 2	2-Jun-14	111	219	98.5	--	--	--
		2-Sep-14	241	582	236	< 0.50	--	--
		1-Dec-14	212	578	251	--	--	--
		2-Mar-15	136	355	171	< 0.50	0.82	--
C3.0	Area 3	2-Jun-14	7.8	32.9	11	--	--	--
		2-Sep-14	13.1	34.4	9.3	< 0.50	--	--
		1-Dec-14	16.3	55	15.8	--	--	--
		2-Mar-15	8.8	42.6	16.9	< 0.50	1.3	--
C5.0	Area 5	2-Jun-14	11.8	45.1	541	--	--	--
		2-Sep-14	55.1	35.3	183	14.6	--	--
		1-Dec-14	56	37.2	172	--	--	--
		2-Mar-15	36.9	32.6	247	19.4	0.098	--
C7.1	Area 7 SPRW-701	2-Jun-14	< 10.0	11.3	190	--	--	--
		2-Sep-14	< 10.0	13.1	279	4.63	--	--
		1-Dec-14	< 10.0	18.7	423	--	--	--
		2-Mar-15	< 10.0	11.1	354	5.63	1.8	--
C7.2	Area 7 SPRW-702	2-Jun-14	13.3	41	424	--	--	--
		2-Sep-14	10.5	28.8	285	18.7	--	--
		1-Dec-14	14.6	40.7	370	--	--	--
		2-Mar-15	10.3	28.8	303	20.8	<0.05	--
Sump	Stormwater Sump	2-Jun-14	7.3	10.8	53.7	--	--	--
		2-Sep-14	8.8	9.2	33.8	49.8	--	--
		1-Dec-14	2.4	2.1	10	188	--	--
		2-Mar-15	5.7	6.6	25.8	179	--	--
SP1	Equalization Basin Influent	2-Jun-14	36.7	69.3	193	11.8	--	--
		9-Jun-14	--	--	--	11.1	--	--
		2-Sep-14	59.8	79.8	89.8	7.65	--	--
		1-Dec-14	66.4	131	82.2	5.23	--	--
		2-Mar-15	46.2	119	57.3	1.29	--	--
SP2	Equalization Basin Effluent	2-Jun-14	12.1	21.1	44.7	--	--	--
		2-Sep-14	9.7	14.2	8.1	1.27	--	--
		1-Dec-14	25.6	58.8	37.4	--	--	--
		2-Mar-15	18.7	38	45.2	--	--	--
SP5	Between Carbons	2-Jun-14	--	--	--	0.54	--	--
		2-Sep-14	--	--	--	< 0.50	--	--
		1-Dec-14	--	--	--	0.56	--	--
		2-Mar-15	--	--	--	< 0.50	--	--
SP6	WTP Effluent	7-Apr-14	< 1.0	< 1.0	< 1.0	--	--	7.5
		5-May-14	< 1.0	< 1.0	< 1.0	--	--	7.5
		2-Jun-14	< 1.0	< 1.0	< 1.0	<0.50	--	7.2
		7-Jul-14	< 1.0	< 1.0	< 1.0	--	--	7.0
		4-Aug-14	< 1.0	< 1.0	< 1.0	--	--	7.2
		2-Sep-14	< 1.0	< 1.0	< 1.0	<0.50	--	7.3
		6-Oct-14	< 1.0	< 1.0	< 1.0	--	--	7.3
		3-Nov-14	< 1.0	< 1.0	< 1.0	--	--	7.5
		1-Dec-14	< 1.0	< 1.0	< 1.0	<0.50	--	6.6
		5-Jan-15	< 1.0	< 1.0	< 1.0	--	--	6.8
		2-Feb-15	< 1.0	< 1.0	< 1.0	--	--	6.5
		2-Mar-15	< 1.0	< 1.0	< 1.0	<0.50	--	6.6

Notes:
DCE - dichloroethene (total of 1,1-DCE, cis-1,2-DCE, and trans-1,2-DCE)
TCE - trichloroethene
PCE - tetrachloroethene
PCB - polychlorinated biphenyl (total of Aroclor-1242, -1248, and -1254)
WTP - water treatment plant
< - less than
-- not analyzed for this parameter
µg/L - micrograms per liter

Table 5. Mass Removal Estimates

Annual Report, Period April 2014 to March 2015

Sangamo Weston Site, Pickens, South Carolina

			Concentration (µg/L)				Mass (lbs/period)			
Sample ID	**Location**	**Date**	**DCE**	**TCE**	**PCE**	**PCBs**	**DCE**	**TCE**	**PCE**	**PCBs**
C2.0	Area 2 Total Flow	2-Jun-2014	111	219	98.5	--	2.0	4.0	1.8	0.0
		2-Sep-2014	241	582	236	< 0.50	5.3	12.9	5.2	0.0
		1-Dec-2014	212	578	251.0	--	6.1	16.6	7.2	0.0
		2-Mar-2015	136	355	171	< 0.50	3.5	9.2	4.4	0.0
C3.0	Area 3 Seep Collection	2-Jun-2014	7.8	32.9	11	--	0.1	0.3	0.1	0.0
		2-Sep-2014	13.1	34.4	9.3	< 0.50	0.1	0.3	0.1	0.0
		1-Dec-2014	16.3	55	15.8	--	0.1	0.4	0.1	0.0
		2-Mar-2015	8.8	42.6	16.9	< 0.50	0.1	0.3	0.1	0.0
SP1	Equalization Basin Influent	2-Jun-2014	36.7	69.3	193	11.8	2.4	4.6	12.9	0.8
		9-Jun-2014	--	--	--	11.1	0.0	0.0	0.0	0.1
		2-Sep-2014	59.8	79.8	89.8	7.65	3.1	4.2	4.7	0.4
		1-Dec-2014	66.4	131	82.2	5.23	3.8	7.5	4.7	0.3
		2-Mar-2015	46.2	119	57.3	1.29	2.7	6.9	3.3	0.1
SP2	Equalization Basin Effluent	2-Jun-2014	12.1	21.1	44.7	--	0.8	1.4	3.0	0.0
		2-Sep-2014	9.7	14.2	8.1	1.27	0.6	0.8	0.5	0.1
		1-Dec-2014	25.6	58.8	37.4	--	1.5	3.4	2.1	0.0
		2-Mar-2015	18.7	38	45.2	--	1.1	2.2	2.6	0.0
						Annual Mass Removed by Equalization Basin:	**8.1**	**15.4**	**17.4**	**1.5**
SP7	Total Plant Effluent		< 1.0	< 1.0	< 1.0	< 0.50	0.0	0.0	0.0	0.0
						Annual Mass Removed by Plant:	**3.9**	**7.8**	**8.2**	**0.1**
						Total Mass Removed from Treatment System:	***12.1***	***23.2***	***25.6***	***1.6***

Notes:

DCE - dichloroethene (total of 1,1-DCE, cis-1,2-DCE, and trans-1,2-DCE)

TCE - trichloroethene

PCE - tetrachloroethene

PCB - polychlorinated biphenyl (total of Aroclor-1242, -1248, and -1254)

< - less than

-- - not analyzed for this parameter

µg/L - micrograms per liter

lbs - pounds

Table 6. Historical Mass Removal Estimates
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

Year		VOC Mass Removed (lbs/6 months) 1,2-DCE, total	TCE	PCE	Total VOCs	Cumulative VOC Mass Removed (lbs)	PCB Mass Removed (lbs/6 months) Aroclor-1242	Aroclor-1248	Total PCBs	Cumulative PCB Mass Removed (lbs)	Comment
1998-2000		NA	NA	NA	NA	**250.1**	NA	NA	NA	**0.8**	System started up in November 1998. Estimated mass removals were calculated from the reported cumulative mass removed in the 2001 annual report.
2001	1st half	46.8	15.3	18.8	80.9	**331.0**	0.0	0.6	0.6	**1.4**	
	2nd half	49.4	14.6	14.0	78.0	**409.0**	0.0	0.0	0.0	**1.4**	
2002	1st half	NA	NA	NA	160.0	**569.0**	NA	NA	0.9	**2.3**	Only total VOC and PCB removal masses could be found in the 2002 report.
	2nd half	NA	NA	NA	0.0	**569.0**	NA	NA	0.0	**2.3**	
2003	1st half	50.4	24.8	21.1	96.3	**665.3**	0.0	0.5	0.5	**2.8**	
	2nd half	27.6	22.7	34.1	84.4	**749.7**	0.0	1.9	1.9	**4.7**	
2004	1st half	21.2	19.1	28.7	69.0	**818.7**	0.0	1.4	1.4	**6.1**	
	2nd half	19.8	27.8	43.4	91.0	**909.7**	0.0	1.2	1.2	**7.3**	
2005	1st half	28.2	40.8	78.2	147.2	**1056.9**	0.0	3.2	3.2	**10.5**	
	2nd half	19.7	27.5	44.2	91.4	**1148.3**	0.0	2.0	2.0	**12.5**	
2006	1st half	16.2	22.2	27.3	65.7	**1214.0**	0.0	0.7	0.7	**13.2**	
	2nd half	11.1	18.4	24.6	54.1	**1268.1**	0.0	2.1	2.1	**15.3**	
2007	1st half	14.0	21.5	30.5	66.0	**1334.1**	0.0	1.0	1.0	**16.3**	
	2nd half	9.9	19.8	21.1	50.8	**1384.9**	0.0	1.1	1.1	**17.4**	
2008	1st half	17.3	18.7	9.3	45.3	**1430.2**	0.0	0.3	0.3	**17.6**	
	2nd half	13.6	28.4	12.4	54.4	**1484.6**	0.0	0.2	0.2	**17.8**	
2009	1st half	13.9	33.7	13.4	61.0	**1545.6**	0.0	0.1	0.1	**17.9**	
	2nd half	25.0	48.1	16.0	89.1	**1634.7**	0.0	0.2	0.2	**18.1**	
2010	1st half	11.8	28.0	72.4	112.2	**1746.9**	0.0	1.4	1.4	**19.5**	
	2nd half	5.5	7.0	4.1	16.6	**1763.5**	0.0	0.6	0.6	**20.1**	
2011	1st half	8.5	17.2	17.2	42.9	**1806.4**	0.0	1.0	1.0	**21.1**	
	2nd half	0.8	5.1	10.9	16.8	**1823.2**	0.0	0.0	0.0	**21.1**	
2012	1st half	7.0	10.9	11.6	29.5	**1852.7**	0.0	0.6	0.6	**21.7**	PCB-1248 quantities for 2012 are total PCBs. Six-month removal masses for 2012 were estimated by halving the total annual mass removed.
	2nd half	7.0	10.9	11.6	29.5	**1882.2**	0.0	0.6	0.6	**22.3**	
2013	1st half	3.1	7.7	45.5	56.3	**1938.6**	0.0	1.9	1.9	**24.2**	
	2nd half	3.1	6.8	39.3	49.3	**1987.9**	0.0	2.5	2.5	**26.7**	
2014	1st half	5.6	8.8	17.5	31.9	**2019.7**	0.0	1.2	1.2	**27.9**	
	2nd half	6.5	14.4	8.0	29.0	**2048.7**	0.0	0.4	0.4	**28.3**	

Notes:
NA - not available
DCE - dichloroethene
TCE - trichloroethene
PCE - tetrachloroethene
PCB - polychlorinated biphenyl
VOCs - volatile organic compounds
lbs - pounds

Table 7. Groundwater Levels, March 2015
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

			Well Specifics					Ground Surface Elevation	Top of Casing Elevation	Water Level Elevation	
Well ID	Date Gauged	Time	Diameter (inches)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Depth to Water (ft BTOC)	Total Depth (ft BTOC)	(ft amsl)	(ft amsl)	(ft amsl)	Comments
Plant Site											
SAMW-1	3/31/2015	1036	2.0	NA	NA	29.18	45.02	1043.13	1046.64	1017.46	
SAMW-2	3/31/2015	1050	2.0	23.5	33.5	25.39	36.88	990.28	993.58	968.19	
SAMW-3	3/31/2015	1042	2.0	42.1	52.1	33.68	49.19	991.68	994.59	960.91	
SBMW-1	--	--	--	--	--	--	--	--	--	--	Could not locate (presumed to be abandoned)
SBMW-2	--	--	--	--	--	--	--	--	--	--	Abandoned
SBMW-3	3/30/2015	1626	2.0	30.0	40.0	24.46	40.59	1015.69	1018.97	994.51	
SBMW-4	--	--	--	--	--	--	--	--	--	--	Abandoned
SBMW-5	3/30/2015	1628	2.0	26.0	36.0	27.91	39.29	1017.19	1020.43	992.52	
SBMW-6	3/30/2015	1632	2.0	26.0	36.0	19.65	38.71	1004.21	1007.26	987.61	
SBMW-7	3/31/2015	844	2.0	24.0	34.0	28.87	37.38	1054.61	1057.72	1028.85	
SCMW-5	3/30/2015	1604	2.0	54.4	64.4	60.27	67.59	1126.53	1130.40	1070.13	
SDMW-1	3/30/2015	1438	2.0	38.5	48.5	45.08	52.47	1111.52	1114.80	1069.72	
SDMW-2	3/30/2015	1418	2.0	58.7	68.7	63.31	71.82	1123.53	1127.01	1063.70	
SDMW-3	3/30/2015	1406	2.0	67.3	77.3	72.68	80.98	1129.29	1132.50	1059.82	
SDMW-4	3/30/2015	1410	2.0	67.5	77.5	68.07	77.84	1122.70	1125.67	1057.60	
SDMW-5	3/30/2015	1414	6.0	82.0	97.0	67.09	76.08	1124.11	1127.35	1060.26	
SDMW-6	--	--	--	--	--	--	--	--	--	--	Abandoned
SDMW-7	3/30/2015	1434	2.0	64.0	74.0	56.89	76.44	1122.57	1125.62	1068.73	
SDMW-8	3/30/2015	1430	2.0	56.0	66.0	61.46	69.21	1120.74	1123.75	1062.29	
SDPW-1A	3/30/2015	1400	6.0	NA	NA	69.12	> 100.00	1128.73	1130.73*	1064.97*	
RPMW-4	--	--	--	--	--	--	--	--	--	--	Could not locate (presumed to be abandoned)
SEMW-1	--	--	--	--	--	--	--	--	--	--	Could not locate (presumed to be abandoned)
SFMW-6	3/30/2015	1600	2.0	65.7	75.7	69.57	78.68	1138.35	1141.52	1071.95	
SGMW-7	3/30/2015	1510	2.0	51.9	61.9	56.21	66.35	1122.76	1126.39	1070.18	
SGMW-8	3/30/2015	1508	2.0	48.9	58.9	55.43	64.12	1127.23	1130.38	1074.95	
SGMW-9	3/30/2015	1514	2.0	59.4	69.4	62.86	73.29	1109.59	1112.85	1049.99	
SHMW-1	--	--	--	--	--	--	--	--	--	--	Abandoned
SHMW-2	3/30/2015	1520	2.0	69.0	79.0	63.19	81.96	1128.40	1131.30	1068.11	
SHMW-3	3/31/2015	1337	2.0	65.0	75.0	52.35	78.08	1110.84	1113.94	1061.59	
SHMW-10	3/31/2015	1125	2.0	48.7	58.7	52.24	61.59	1114.81	1118.21	1065.97	
SPMW-1	3/31/2015	1020	2.0	15	25	12.57	27.32	953.09	955.56	942.99	
SPMW-2	3/30/2015	1225	2.0	5.8	15.8	11.37	17.91	NA	983.53	972.16	
SPMW-3	--	--	2.0	30.0	40.0	NR	NR	963.37	967.72	--	Not recorded
SPMW-3A	--	--	2.0	NA	NA	NR	NR	962.62	966.27	--	Not recorded
SPMW-4	3/31/2015	821	2.0	2.5	12.5	6.50	14.63	992.30	994.56	988.06	
SPMW-4A	3/31/2015	822	2.0	72.4	82.4	7.99	85.38	NA	995.88	987.89	
SPMW-5	4/1/2015	1344	2.0	10.0	20.0	13.42	21.89	969.83	972.78	959.36	
SPMW-6	4/1/2015	1604	2.0	32.0	42.0	29.60	44.78	1000.30	1003.05	973.45	
SPMW-7	3/31/2015	900	2.0	15.0	25.0	26.04	27.35	NA	1056.23	1030.19	
SPMW-8	--	--	2.0	42.0	52.0	NR	NR	1108.75	1112.27	--	Not recorded
SPMW-9	4/1/2015	1550	2.0	55.0	75.0	33.55	77.43	1050.24	1052.88	1019.33	
SPMW-10	3/31/2015	830	2.0	48.0	58.0	58.88	60.04	1071.91	1074.73	1015.85	
SPMW-11	3/31/2015	834	2.0	45.9	55.9	51.66	57.08	1063.68	1065.10	1013.44	

Table 7. Groundwater Levels, March 2015
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

			Well Specifics					Ground	Top of		
Well ID	Date Gauged	Time	Diameter (inches)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Depth to Water (ft BTOC)	Total Depth (ft BTOC)	Surface Elevation (ft amsl)	Casing Elevation (ft amsl)	Water Level Elevation (ft amsl)	Comments
SPMW-12	3/31/2015	837	2.0	40.0	50.0	41.97	52.54	1090.70	1093.77	1051.80	
SPMW-13	--	--	2.0	NA	NA	NR	NR	1090.78	1095.21	--	Not recorded
SPMW-14	3/30/2015	1325	2.0	4.0	14.0	6.57	16.58	939.49	941.88	935.31	
SPMW-14A	3/30/2015	1330	2.0	NA	NA	9.68	44.14	NA	942.40	932.72	
SPMW-15	3/31/2015	910	NA	NA	NA	63.21	86.11	1099.00	1101.78	1038.57	
SPMW-16	--	--	--	--	--	--	--	--	--	--	Abandoned
SPMW-17	3/31/2015	911	6.0	126.0	142.0	67.10	> 100.00	1099.39	1102.37	1035.27	
SPMW-18	3/31/2015	1305	2.0	65.0	75.0	48.51	77.61	1074.01	1077.01	1028.50	
SPMW-19	3/31/2015	1315	2.0	43.0	53.0	51.69	55.81	1100.83	1103.71	1052.02	
SPMW-20	3/31/2015	1321	2.0	47.5	57.5	52.81	60.06	1099.13	1102.15	1049.34	
SPRW-201	3/30/2015	1616	6.0	NA	NA	14.73	> 100.00	NA	1005.91	991.18	
SPRW-202	3/30/2015	NR	6.0	NA	NA	48.84	> 100.00	NA	1008.78	959.94	
SPRW-204	3/30/2015	1613	6.0	22.8	52.8	46.73	NA	NA	1004.02	957.29	
SPRW-205	--	--	6.0	28.0	58.0	NR	NR	NA	1009.76	--	Not recorded
SPRW-206	3/30/2015	1626	6.0	39.5	69.5	56.54	NA	NA	1013.23	956.69	
SPRW-301	3/30/2015	1243	6.0	NA	NA	7.83	68.32	NA	975.82	967.99	
SPRW-302	3/30/2015	1240	6.0	NA	NA	3.59	47.55	NA	972.43	968.84	Total depth is depth to top of pump
SPRW-303A	3/30/2015	1245	6.0	NA	NA	3.99	56.28	NA	972.83	968.84	Total depth is depth to top of pump
SPRW-401	3/30/2015	NR	6.0	48.3	120.5	NA	51.12	1012.65	1014.76	--	Total depth is to top of pump; water was below pump
SPRW-602	3/30/2015	NR	6.0	NA	NA	NA	53.09	NA	1111.63	--	Total depth is to top of pump; water was below pump
SPRW-701	--	--	6.0	16.0	36.0	NR	NR	953.35	954.03	--	Cannot gauge due to pump in well
SPRW-702	--	--	6.0	30.7	45.7	NR	NR	NA	967.42	--	Cannot gauge due to pump in well
SWMW-1	3/31/2015	1115	2.0	45.0	55.0	48.27	55.08	1074.01	1077.54	1029.27	
SWMW-5	3/30/2015	1620	2.0	13.0	23.0	23.34	26.36	996.03	999.64	976.30	
SWMW-6	3/31/2015	1033	2.0	23.6	33.6	20.06	34.51	NA	1006.00	985.94	
SWMW-7	3/30/2015	1615	2.0	6.8	16.8	18.81	19.85	968.74	973.15	954.34	
SWMW-7A	3/30/2015	1616	2.0	28.5	33.5	21.61	36.92	967.73	973.42	951.81	
SWMW-8	3/30/2015	1620	2.0	15.5	25.5	21.01	28.52	990.93	995.72	974.71	
SWMW-9	--	--	--	--	--	--	--	--	--	--	Could not locate (presumed to be abandoned)
MW-5	3/30/2015	1208	2.0	NA	NA	49.01	55.22	1067.64	1070.64*	1024.79*	*Approximation: Well monument ~ 3 ft ags
MW-6	3/30/2015	1202	2.0	52.7	62.7	63.27	65.43	1033.48	1036.48*	978.02*	
MW-7	3/30/2015	1155	2.0	59.5	69.5	69.22	72.63	1038.92	1041.92*	980.43*	*Approximation: Well monument ~ 3 ft ags
MW-8	3/30/2015	1150	2.0	NA	NA	47.62	59.66	1039.90	1042.90*	995.99	*Approximation: Well monument ~ 3 ft ags
Cross Roads Site											
CRMW-1	3/30/2015	1406	2.0	40.1	50.1	43.19	52.72	1015.43	1018.14	974.95	
CRMW-2	3/30/2015	1446	2.0	3.5	8.5	7.70	8.66	972.62	976.07	968.37	
CRMW-3	3/30/2015	1424	2.0	3.9	13.9	8.87	13.75	970.46	974.10	965.23	
CRMW-3A	3/30/2015	1420	2.0	13.6	18.6	8.45	21.81	969.97	973.76	965.31	
CRMW-4	3/30/2015	1428	2.0	2.9	7.9	7.78	10.62	967.67	974.01	966.23	
CRMW-5	3/30/2015	1436	2.0	10.5	20.5	12.94	23.21	970.94	971.20	958.26	
Breazeale Site											
BRMW-01	3/30/2015	1315	2.0	15.0	25.0	17.80	26.70	NA	908.07	890.27	
BRMW-02	3/30/2015	1243	2.0	10.0	20.0	10.70	21.98	NA	892.06	881.36	
BRMW-02A	3/30/2015	1240	2.0	79.0	84.0	14.31	86.90	NA	893.22	878.91	
BRMW-03	3/30/2015	1214	2.0	9.0	19.0	11.17	19.99	NA	887.57	876.40	

Table 7. Groundwater Levels, March 2015

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Sangamo Weston Site, Pickens, South Carolina

			Well Specifics					Ground	Top of		
Well ID	Date Gauged	Time	Diameter (inches)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Depth to Water (ft BTOC)	Total Depth (ft BTOC)	Surface Elevation (ft amsl)	Casing Elevation (ft amsl)	Water Level Elevation (ft amsl)	Comments
BRMW-03A	3/30/2015	1212	2.0	36.5	41.5	12.51	39.51	NA	888.51	876.00	
BRMW-04	3/30/2015	1300	2.0	29.0	39.0	28.40	39.98	NA	906.27	877.87	
BRMW-04A	3/30/2015	1257	2.0	77.0	82.0	30.79	85.19	NA	909.10	878.31	
BRMW-05	3/30/2015	1230	2.0	11.0	21.0	17.28	24.01	NA	894.33	877.05	
BRMW-05A	3/30/2015	1231	2.0	28.0	33.0	17.04	34.87	NA	894.16	877.12	
BRMW-08	3/30/2015	1223	2.0	6.0	16.0	13.71	18.78	NA	888.37	874.66	
BRMW-09	3/30/2015	1200	2.0	8.0	18.0	10.71	20.06	NA	886.51	875.80	
BRMW-10	3/30/2015	1218	2.0	9.0	19.0	7.29	19.65	NA	894.20	886.91	
BRMW-11	3/30/2015	1236	2.0	11.5	21.5	16.54	23.45	NA	897.00	880.46	
BRMW-12A	3/30/2015	1220	2.0	25.3	30.3	14.56	33.26	NA	889.35	874.79	
BRMW-13	--	--	--	--	--	--	--	--	--	--	Could not locate (presumed to be abandoned)
BRMW-14	3/30/2015	1204	2.0	8.2	18.2	11.72	20.92	NA	887.75	876.03	
BRMW-14A	3/30/2015	1207	2.0	23.2	28.2	12.27	27.49	NA	887.58	875.31	

Note: No rain events occurred between gauging events of 3/30/15-3/31/15 and 4/01/2015

ft ags - feet above ground surface

ft amsl - feet above mean sea level

ft bgs - feet below ground surface

ft BTOC - feet below top of casing

NR - not recorded

NA - not available

> - greater than

Table 8. Cross Roads Site Well Inspection Checklist

Annual Report, Period April 2014 to March 2015

Sangamo Weston Site, Pickens, South Carolina

Well Name	As-Built Total Depth (TD) (ft BTOC)	Access Unobstructed? (Y/N)	Well Easily Visible? (Y/N)	Vault, Well, or Casing Clearly Labeled? (Y/N)	Well, Vault, Pad, or Casing Free of Visible Damage, Scour, or Settling? (Y/N)	Well Secured Properly with Water-Tight Well Cap and Lock? (Y/N)	Well Vault Dry and Free of Debris? (Y/N)	Measured TD
CRMW-1	52.70	Y	N	Y	Y	Y	Y	52.75
CRMW-2	8.66	Y	N	Y	Y	Y	Y	8.70
CRMW-3	13.85	Y	N	Y	Y	Y	Y	13.75
CRMW-3A	21.83	Y	N	Y	Y	Y	Y	21.86
CRMW-4	10.58	Y	N	Y	Y	Y	Y	10.60
CRMW-5	23.21	Y	N	Y	Y	Y	Y	23.23

Note: Poison ivy present on path to wells

Y - Yes

N - No

ft BTOC - feet below top of casing

TD - total depth

Table 9. Annual Monitoring Sampling Methods
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

		Sampling Requirements			
Sampling Location	**Date Sampled**	**VOCs**	**PCBs**	**Sampling Method**	**Comment**
SAMW-2	4/2/2015	x		HydraSleeve	
SBMW-3	4/2/2015	x		HydraSleeve	
SBMW-5[QC]	4/2/2015	x	x	SuperSleeve	
SBMW-6	4/2/2015	x	x	SuperSleeve	
SBMW-7	4/2/2015	x		HydraSleeve	
SCMW-5	4/1/2015	x	x	SuperSleeve	
SDMW-1	4/3/2015	x		HydraSleeve	
SDMW-2	4/1/2015	x		HydraSleeve	
SDMW-3	4/23/2015	x	x	Double Valve Pump	
SDMW-4[QC]	4/1/2015	x		HydraSleeve	
SDMW-5	NS	x		NS	Well is silted due to casing separation
SDMW-7	4/1/2015	x	x	SuperSleeve	
SDMW-8	4/1/2015	x	x	SuperSleeve	
SFMW-6	4/3/2015	x		HydraSleeve	
SGMW-7	4/1/2015	x		HydraSleeve	
SGMW-8	4/22/2015	x		HydraSleeve	
SGMW-9	4/1/2015	x		HydraSleeve	
SHMW-2	4/1/2015	x	x	SuperSleeve	
SHMW-3	4/1/2015	x		HydraSleeve	
SHMW-10	4/3/2015	x		HydraSleeve	
SPMW-2	4/3/2015	x		HydraSleeve	
SPMW-4	4/3/2015	x		HydraSleeve	
SPMW-4A	4/3/2015	x		HydraSleeve	
SPMW-5	4/2/2015	x		HydraSleeve	
SPMW-6	4/2/2015	x		HydraSleeve	
SPMW-7	5/7/2015	x		HydraSleeve	
SPMW-9	4/2/2015	x		HydraSleeve	
SPMW-10	NS	x		NS	Not enough water to collect sample
SPMW-11	4/3/2015	x		HydraSleeve	
SPMW-12	4/22/2015	x	x	SuperSleeve	
SPMW-14A	4/3/2015	x	x	SuperSleeve	
SPMW-15	4/1/2015	x		HydraSleeve	
SPMW-17[QC]	4/1/2015	x		HydraSleeve	
SPMW-18	4/2/2015	x	x	HydraSleeve	
SPMW-19	4/1/2015	x		HydraSleeve	
SPMW-20	4/1/2015	x		HydraSleeve	
SPRW-201	4/2/2015	x		HydraSleeve	
SPRW-204	4/2/2015	x		HydraSleeve	
SPRW-205	4/2/2015	x		HydraSleeve	
SPRW-206	4/2/2015	x		HydraSleeve	
SPRW-301	4/3/2015	x		HydraSleeve	
SPRW-302	4/3/2015	x		HydraSleeve	
SPRW-303A[QC]	4/3/2015	x		HydraSleeve	
SPRW-401	4/23/2015	x	x	Sample Port	
SPRW-701	4/3/2015	x	x	Sample Port	
SPRW-702[QC]	4/3/2015	x	x	Sample Port	
SWMW-1	4/1/2015	x		HydraSleeve	
SWMW-5	4/2/2015	x	x	SuperSleeve	
SWMW-6	4/2/2015	x	x	SuperSleeve	
SWMW-7	4/23/2015	x	x	Peristaltic Pump	
SWMW-7A	4/23/2015	x	x	Double Valve Pump	
SWMW-8	4/23/2015	x	x	Peristaltic Pump	
MW-6	4/22/2015	x		HydraSleeve	
MW-7	4/22/2015	x		HydraSleeve	
SW-2[QC]	4/1/2015	x		Grab	
SW-3	4/1/2015	x		Grab	

Table 9. Annual Monitoring Sampling Methods
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

		Sampling Requirements			
Sampling Location	**Date Sampled**	**VOCs**	**PCBs**	**Sampling Method**	**Comment**
BRMW-01	4/2/2015	x		HydraSleeve	
BRMW-02[QC]	5/7/2015	x		HydraSleeve	
BRMW-02A	4/2/2015	x		HydraSleeve	
BRMW-03	4/2/2015	x		HydraSleeve	
BRMW-03A	4/2/2015	x		HydraSleeve	
BRMW-04	5/7/2015	x		HydraSleeve	
BRMW-04A	4/2/2015	x		HydraSleeve	
BRMW-05	4/2/2015	x		HydraSleeve	
BRMW-05A	4/2/2015	x		HydraSleeve	
BRMW-08	4/2/2015	x		HydraSleeve	
BRMW-09	4/2/2015	x		HydraSleeve	
BRMW-10	4/2/2015	x		HydraSleeve	
BRMW-11[QC]	5/7/2015	x		HydraSleeve	
BRMW-12A	4/2/2015	x		HydraSleeve	
BRMW-13	NS	x		NS	Could not locate (presumed to be abandoned)
BRMW-14	4/2/2015	x		HydraSleeve	
BRMW-14A	4/2/2015	x		HydraSleeve	

Notes:

VOCs: volatile organic compounds (EPA Method 8260B)
1,1-Dichloroethene, cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2-Dichloroethene, Trichloroethene, and Vinyl chloride

PCBs: polychlorinated biphenyls (EPA Method 8082A)
PCB-1242, PCB-1248, PCB-1254

NS: Not sampled

QC:

a) One duplicate sample was collected for every 10 normal samples collected. Well IDs with the "QC" in superscript included a duplicate sample.
b) MS/MSD samples were be analyzed for the same parameters as the normal samples. One MS/MSD sample was collected for every 20 normal samples collected.

c) One trip blank was included in each cooler containing VOCs samples. Trip blanks were prepared by the laboratory and shipped with clean sample bottles.
d) One equipment blank was collected for each type of sampling equipment used for the sampling event.

Table 10. Summary of Plant Site Groundwater Analytical Results, April 2015
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

			Secure Landfill		Area A	Area B				Area C	Area D						Area F
Station ID			MW-6	MW-7	SAMW-2	SBMW-3	SBMW-5	SBMW-6	SBMW-7	SCMW-5	SDMW-1	SDMW-2	SDMW-3	SDMW-4	SDMW-7	SDMW-8	SFMW-6
Sample ID	**Units**	**Performance Standard MCL[a]**	MW-6-GW-HS-042215	MW-7-GW-HS-042215	SAMW-2-GW-HS-040215	SBMW-3-GW-HS-040215	SBMW-5-GW-HS-040215	SBMW-6-GW-HS-040215	SBMW-7-GW-HS-040215	SCMW-5-GW-HS-040115	SDMW-1-GW-HS-040315	SDMW-2-GW-HS-040115	SDMW-3-GW-042315	SDMW-4-GW-HS-040115	SDMW-7-GW-HS-040115	SDMW-8-GW-HS-040115	SFMW-6-GW-HS-040315
Sample Date			4/22/2015	4/22/2015	4/2/2015	4/2/2015	4/2/2015	4/2/2015	4/2/2015	4/1/2015	4/3/2015	4/1/2015	4/23/2015	4/1/2015	4/1/2015	4/1/2015	4/3/2015
Analyte																	
Polychlorinated Biphenyls (PCBs)																	
PCB-1242	µg/L	0.5	NS	NS	NS	NS	2.55 U	4.81 U	NS	**1.43**	NS	NS	0.49 U	NS	**10.7**	0.467 U	NS
PCB-1248	µg/L	0.5	NS	NS	NS	NS	**12.9**	**67**	NS	0.495 U	NS	NS	**0.75**	NS	0.485 U	**2.1 J**	NS
PCB-1254	µg/L	0.5	NS	NS	NS	NS	2.55 U	4.81 U	NS	0.495 U	NS	NS	0.49 U	NS	0.485 U	0.467 U	NS
Volatile Organic Compounds (VOCs)																	
1,1-Dichloroethene	µg/L	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2.4**	**5.96**	**2.23**	**6.8**	1 U
cis-1,2-Dichloroethene	µg/L	70	**0.822 J**	**0.687 J**	1 U	1 U	**485**	**23.2**	1 U	1 U	1 U	1 U	**2.83**	**13.4**	**7.16**	**23.4**	**2.53**
Tetrachloroethene	µg/L	5	1 U	1 U	**0.277 J**	**7.58**	**3270**	**582**	**1.85**	**0.906 J**	**5.95**	**61.5 J**	**531**	**449**	**133**	**340**	**2.29**
trans-1,2-Dichloroethene	µg/L	100	1 U	1 U	1 U	1 U	**2.6**	**0.233 J**	1 U	1 U	1 U	1 U	1 U	**0.658 J**	1 U	**0.523 J**	1 U
Trichloroethene	µg/L	5	**15.9**	**4.86**	1 U	**0.353 J**	**215**	**33.9**	1 U	**1.9**	**6.1**	**3.51**	**393**	**764**	**290**	**586**	**1.03**
Vinyl chloride	µg/L	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Notes:
Exceeds Performance Standard (MCL)
Bold indicates the analyte was detected
[a] Maximum Contaminant Level (MCL) (EPA, November 2012). Does not apply to surface water samples.
J - Concentration considered an estimate based on data validation.
U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
µg/L - micrograms per liter
NS - not sampled
PCBs - polychlorinated biphenyls
VOCs - volatile organic compounds

Table 10. Summary of Plant Site Groundwater Analytical Results, April 2015
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

			Area G			Area H			Area 2				Area 3			Area 4	Area 5	
Station ID			SGMW-7	SGMW-8	SGMW-9	SHMW-10	SHMW-2	SHMW-3	SPRW-201	SPRW-204	SPRW-205	SPRW-206	SPRW-301	SPRW-302	SPRW-303A	SPRW-401	SWMW-5	SWMW-6
Sample ID	**Units**	**Performance Standard MCL[a]**	SGMW-7-GW-HS-040115	SGMW-8-GW-HS-042215	SGMW-9-GW-HS-040115	SHMW-10-GW-HS-040315	SHMW-2-GW-HS-040115	SHMW-3-GW-HS-040115	SPRW-201-GW-HS-040215	SPRW-204-GW-HS-040215	SPRW-205-GW-HS-040215	SPRW-206-GW-HS-040215	SPRW-301-GW-HS-040315	SPRW-302-GW-HS-040315	SPRW-303A-GW-HS-040315	SPRW-401-GW-042315	SWMW-5-GW-HS-040215	SWMW-6-GW-HS-040215
Sample Date			4/1/2015	4/22/2015	4/1/2015	4/3/2015	4/1/2015	4/1/2015	4/2/2015	4/2/2015	4/2/2015	4/2/2015	4/3/2015	4/3/2015	4/3/2015	4/23/2015	4/2/2015	4/2/2015
Analyte																		
Polychlorinated Biphenyls (PCBs)																		
PCB-1242	µg/L	0.5	NS	NS	NS	NS	0.467 U	NS	NS	NS	NS	NS	NS	NS	NS	2.39 U	1.11 U	0.481 U
PCB-1248	µg/L	0.5	NS	NS	NS	NS	0.467 U	NS	NS	NS	NS	NS	NS	NS	NS	2.39 U	**5.36**	**3.58**
PCB-1254	µg/L	0.5	NS	NS	NS	NS	0.467 U	NS	NS	NS	NS	NS	NS	NS	NS	2.39 U	1.11 U	0.481 U
Volatile Organic Compounds (VOCs)																		
1,1-Dichloroethene	µg/L	7	1 U	1 U	1 U	1 U	1 U	**0.542 J**	**4.79**	**0.298 J**	1 U	1 U	**1.76**	**1.59**	**3.55**	1 U	**1.48**	1 U
cis-1,2-Dichloroethene	µg/L	70	1 U	1 U	**0.676 J**	**0.82 J**	**13.6**	**89.5**	**1670**	**107**	**41.1**	**40.8**	**66.9**	**142**	**96.3**	**65.7**	**12.9**	**1.73**
Tetrachloroethene	µg/L	5	**5.22**	**2.72**	**20.5**	**58.7**	**94.2**	**933**	**198**	**78.6**	**191**	**197**	**11.1**	**24.1**	**30.9**	**32.3**	**5.64**	**397**
trans-1,2-Dichloroethene	µg/L	100	1 U	1 U	1 U	1 U	1 U	**0.973 J**	**3.25**	**0.412 J**	1 U	1 U	**0.291 J**	**0.397 J**	**0.397 J**	1 U	**0.252 J**	1 U
Trichloroethene	µg/L	5	**3.73**	**2.13**	**17.6**	**34.4**	**185**	**2060**	**1030**	**181**	**139**	**287**	**158**	**199**	**431**	**17.6**	**11.7**	**11.9**
Vinyl chloride	µg/L	2	1 U	1 U	1 U	1 U	1 U	1 U	**9.06**	1 U	1 U	1 U	**18.9**	1 U	1 U	**0.723 J**	**2.57 J**	1 U

Notes:
Exceeds Performance Standard (MCL)
Bold indicates the analyte was detected
[a] Maximum Contaminant Level (MCL) (EPA, November 2012). Does not apply to surface water samples.
J - Concentration considered an estimate based on data validation.
U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
µg/L - micrograms per liter
NS - not sampled
PCBs - polychlorinated biphenyls
VOCs - volatile organic compounds

Table 10. Summary of Plant Site Groundwater Analytical Results, April 2015
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

			Area 7					Perimeter Monitoring Wells						
Station ID			SWMW-7A	SWMW-7	SWMW-8	SPRW-701	SPRW-702	SPMW-2	SPMW-4A	SPMW-4	SPMW-5	SPMW-6	SPMW-7	SPMW-9
Sample ID	**Units**	**Performance Standard MCL[a]**	SWMW-7A-GW-042315	SWMW-7-GW-042315	SWMW-8-GW-04231	SPRW-701-GW-040315	SPRW-702-GW-040315	SPMW-2-GW-HS-040315	SPMW-4A-GW-HS-040315	SPMW-4-GW-HS-040315	SPMW-5-GW-HS-040215	SPMW-6-GW-HS-040215	SPMW-7-GW-HS-050715	SPMW-9-GW-HS-040215
Sample Date			4/23/2015	4/23/2015	4/23/2015	4/3/2015	4/3/2015	4/3/2015	4/3/2015	4/3/2015	4/2/2015	4/2/2015	5/7/2015	4/2/2015
Analyte														
Polychlorinated Biphenyls (PCBs)														
PCB-1242	µg/L	0.5	4.9 U	0.488 U	0.481 U	0.467 U	2.39 U	NS	NS	NS	NS	NS	NS	NS
PCB-1248	µg/L	0.5	**9.77**	**0.888**	**3.52**	**3.04**	**11.5**	NS	NS	NS	NS	NS	NS	NS
PCB-1254	µg/L	0.5	4.9 U	0.488 U	0.481 U	0.467 U	2.39 U	NS	NS	NS	NS	NS	NS	NS
Volatile Organic Compounds (VOCs)														
1,1-Dichloroethene	µg/L	7	**0.396 J**	1 U	1 U	1 U	**0.351 J**	1 U	1 U	1 U	1 U	1 U	**0.819 J**	1 U
cis-1,2-Dichloroethene	µg/L	70	**17.6**	**0.26 J**	1 U	**1.88**	**11.3**	**0.652 J**	**39.2**	**0.32 J**	1 U	1 U	**4.72**	1 U
Tetrachloroethene	µg/L	5	**232**	**4.76**	**49.9**	**289**	**262 J**	**6.32**	**4.14**	1 U	1 U	**0.175 J**	**22.6**	1 U
trans-1,2-Dichloroethene	µg/L	100	1 U	1 U	1 U	1 U	1 U	1 U	**0.279 J**	1 U	1 U	1 U	1 U	1 U
Trichloroethene	µg/L	5	**83.2**	**0.647 J**	**0.852 J**	**10.1**	**29.2**	**10.2**	**32**	1 U	1 U	1 U	**71.7**	1 U
Vinyl chloride	µg/L	2	**0.895 J**	1 U	1 U	1 U	**0.308 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Notes:
Exceeds Performance Standard (MCL)
Bold indicates the analyte was detected
[a] Maximum Contaminant Level (MCL) (EPA, November 2012). Does not apply to surface water samples.
J - Concentration considered an estimate based on data validation.
U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
µg/L - micrograms per liter
NS - not sampled
PCBs - polychlorinated biphenyls
VOCs - volatile organic compounds

Table 10. Summary of Plant Site Groundwater Analytical Results, April 2015
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

Station ID			Perimeter Monitoring Wells								
			SPMW-11	SPMW-12	SPMW-14A	SPMW-15	SPMW-17	SPMW-18	SPMW-19	SPMW-20	SWMW-1
Sample ID	**Units**	**Performance Standard MCL[a]**	SPMW-11-GW-HS-040315	SPMW-12-GW-HS-042215	SPMW-14A-GW-HS-040315	SPMW-15-GW-HS-040115	SPMW-17-GW-HS-040115	SPMW-18-GW-HS-040215	SPMW-19-GW-HS-040115	SPMW-20-GW-HS-040115	SWMW-1-GW-HS-040115
Sample Date			4/3/2015	4/22/2015	4/3/2015	4/1/2015	4/1/2015	4/2/2015	4/1/2015	4/1/2015	4/1/2015
Analyte											
Polychlorinated Biphenyls (PCBs)											
PCB-1242	µg/L	0.5	NS	0.474 U	0.469 U	NS	NS	0.472 U	NS	NS	NS
PCB-1248	µg/L	0.5	NS	0.474 U	0.469 U	NS	NS	0.472 U	NS	NS	NS
PCB-1254	µg/L	0.5	NS	0.474 U	0.469 U	NS	NS	0.472 U	NS	NS	NS
Volatile Organic Compounds (VOCs)											
1,1-Dichloroethene	µg/L	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	µg/L	70	**1.1**	**17.9**	1 U	**41.5**	**2.27 J**	**0.468 J**	**9.78**	1 U	**2.44**
Tetrachloroethene	µg/L	5	**70.4**	**1370**	1 U	**200**	**21.9 J**	**17**	**79.6**	**3230**	**27.7**
trans-1,2-Dichloroethene	µg/L	100	1 U	**0.629 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	µg/L	5	**122**	**1400**	1 U	**226**	**34.1 J**	**7.4**	**33**	**14.5**	**9.99**
Vinyl chloride	µg/L	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Notes:
Exceeds Performance Standard (MCL)
Bold indicates the analyte was detected
[a] Maximum Contaminant Level (MCL) (EPA, November 2012). Does not apply to surface water samples.
J - Concentration considered an estimate based on data validation.
U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
µg/L - micrograms per liter
NS - not sampled
PCBs - polychlorinated biphenyls
VOCs - volatile organic compounds

Table 11. Summary of Plant Site Surface Water Analytical Results, April 2015
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

			Surface Water	
Station ID			SW-2	SW-3
Sample ID	**Units**	**Surface Water Quality Standard[a]**	SW-2-SW-040115	SW-3-SW-040115
Sample Date			4/1/2015	4/1/2015
Analyte				
Polychlorinated Biphenyls (PCBs)				
PCB-1242	µg/L	0.000064	NS	NS
PCB-1248	µg/L	0.000064	NS	NS
PCB-1254	µg/L	0.000064	NS	NS
Volatile Organic Compounds (VOCs)				
1,1-Dichloroethene	µg/L	7	1 U	1 U
cis-1,2-Dichloroethene	µg/L	70	1 U	1 U
Tetrachloroethene	µg/L	0.69	**0.951 J**	1 U
trans-1,2-Dichloroethene	µg/L	100	1 U	1 U
Trichloroethene	µg/L	2.5	**2.83**	1 U
Vinyl chloride	µg/L	0.025	1 U	1 U

Notes:
Exceeds Surface Water Quality Standard
Bold indicates the analyte was detected
-- Screening criteria does not exist for analyte
[a] South Carolina Department of Health and Environmental Control (SC DHEC) Water Quality Numeric Criteria for the Protection of Aquatic Life and Human Health (June 2012)
J - Concentration considered an estimate based on data validation.
U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
µg/L - micrograms per liter
NS - not sampled
PCBs - polychlorinated biphenyls
VOCs - volatile organic compounds

Table 12. Summary of Breazeale Site Groundwater Analytical Results, April-May 2015
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

Station ID				BRMW-01	BRMW-02A	BRMW-02	BRMW-03A	BRMW-03	BRMW-04A	BRMW-04	BRMW-05A	BRMW-05	BRMW-08	BRMW-09	BRMW-10	BRMW-11	BRMW-12A	BRMW-14A	BRMW-14
Sample ID				BRMW-01-GW-HS-040215	BRMW-02A-GW-HS-040215	BRMW-02-GW-HS-050715	BRMW-03A-GW-HS-040215	BRMW-03-GW-HS-040215	BRMW-04A-GW-HS-040215	BRMW-04-GW-HS-050715	BRMW-05A-GW-HS-040215	BRMW-05-GW-HS-040215	BRMW-08-GW-HS-040215	BRMW-09-GW-HS-040215	BRMW-10-GW-HS-040215	BRMW-11-GW-HS-050715	BRMW-12A-GW-HS-040215	BRMW-14A-GW-HS-040215	BRMW-14-GW-HS-040215
Sample Date		**Performance Standard MCL[a]**	**Interim Protection Level[b]**	4/2/2015	4/2/2015	5/7/2015	4/2/2015	4/2/2015	4/2/2015	5/7/2015	4/2/2015	4/2/2015	4/2/2015	4/2/2015	4/2/2015	5/7/2015	4/2/2015	4/2/2015	4/2/2015
Analyte	**Units**																		
Polychlorinated Biphenyls (PCBs)																			
PCB-1242	µg/L	0.5	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB-1248	µg/L	0.5	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB-1254	µg/L	0.5	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Volatile Organic Compounds (VOCs)																			
1,1-Dichloroethene	µg/L	7	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.514 J**	1 U	1 U	1 U
cis-1,2-Dichloroethene	µg/L	70	--	1 U	1 U	**1.17**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**40.7**	1 U	1 U	1 U
Tetrachloroethene	µg/L	5	40	1 U	**1.42**	**59.3**	1 U	**1.64**	**11**	**7.48**	1 U	**0.183 J**	1 U	1 U	**0.345 J**	**1420**	**1.03**	**0.335 J**	**0.34 J**
trans-1,2-Dichloroethene	µg/L	100	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	µg/L	5	150	1 U	**0.501 J**	**140**	1 U	**1.28**	**2.32**	1 U	1 U	1 U	1 U	1 U	1 U	**2150**	**0.357 J**	1 U	1 U
Vinyl chloride	µg/L	2	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Notes:
Exceeds Performance Standard (MCL)
Bold indicates the analyte was detected
-- Screening criteria does not exist for analyte
[a]Maximum Contaminant Level (MCL) (EPA, November 2012).
[b]Levels established for Breazeale Site in the 2009 Record of Decision Amendment (EPA 2009) for the protection of Wolf Creek.
J - Concentration considered an estimate based on data validation.
U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
µg/L - micrograms per liter
NS - not sampled
PCBs - polychlorinated biphenyls
VOCs - volatile organic compounds

Table 13. Proposed Monitoring Well Network Changes
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

Well ID	Recommendation			Well Status and Rationale for Recommendation
	Remove from Gauging Program	Remove from Sampling Program	Abandon	
Plant Site				
SBMW-1	X		NA	- Could not locate (presumed to be abandoned) - Sufficient monitoring well network to assess potentiometric surface
SBMW-2	X		NA	- Abandoned prior to 2013 Area B removal action - Sufficient monitoring well network to assess potentiometric surface
SBMW-4	X		NA	- Abandoned prior to 2013 Area B removal action - Sufficient monitoring well network to assess potentiometric surface
SDMW-5	X	X	X	- Well is silted due to casing separation - Sufficient monitoring well network to assess potentiometric surface and Area D upgradient and downgradient wells included in monitoring program
SDMW-6	X		NA	- Dry well, abandoned shortly after installation - Sufficient monitoring well network to assess potentiometric surface
SDMW-7	X			- Transducer in Well - Water level data will be collected from Transducer
RPMW-4	X		NA	- Could not locate (presumed to be abandoned) - Sufficient monitoring well network to assess potentiometric surface
SEMW-1	X		NA	- Could not locate (presumed to be abandoned) - Sufficient monitoring well network to assess potentiometric surface
SHMW-1	X		NA	- Abandoned prior to 2013 Area H removal action - Sufficient monitoring well network to assess potentiometric surface
SPMW-10	X	X	X	- Not enough water to collect sample - Sampled 17 times since 1994, no PCBs detected, VOCs below performance standards - Sufficient monitoring well network to assess potentiometric surface
SPMW-16	X		NA	- Abandoned prior to 2013 Area H removal action - Sufficient monitoring well network to assess potentiometric surface
SPRW-701	X			- Cannot gauge due to pump in well - Sufficient monitoring well network to assess potentiometric surface
SPRW-702	X			- Cannot gauge due to pump in well - Sufficient monitoring well network to assess potentiometric surface
SWMW-9	X		NA	- Could not locate (presumed to be abandoned) - Sufficient monitoring well network to assess potentiometric surface
Breazeale Site				
BRMW-13	X	X	NA	- Could not locate (presumed to be abandoned) - Sampled 15 times since installation, no VOCs detected - Sufficient monitoring well network to assess potentiometric surface

Notes:
NA = not applicable, well abandoned or presumed to be abandoned

Figures

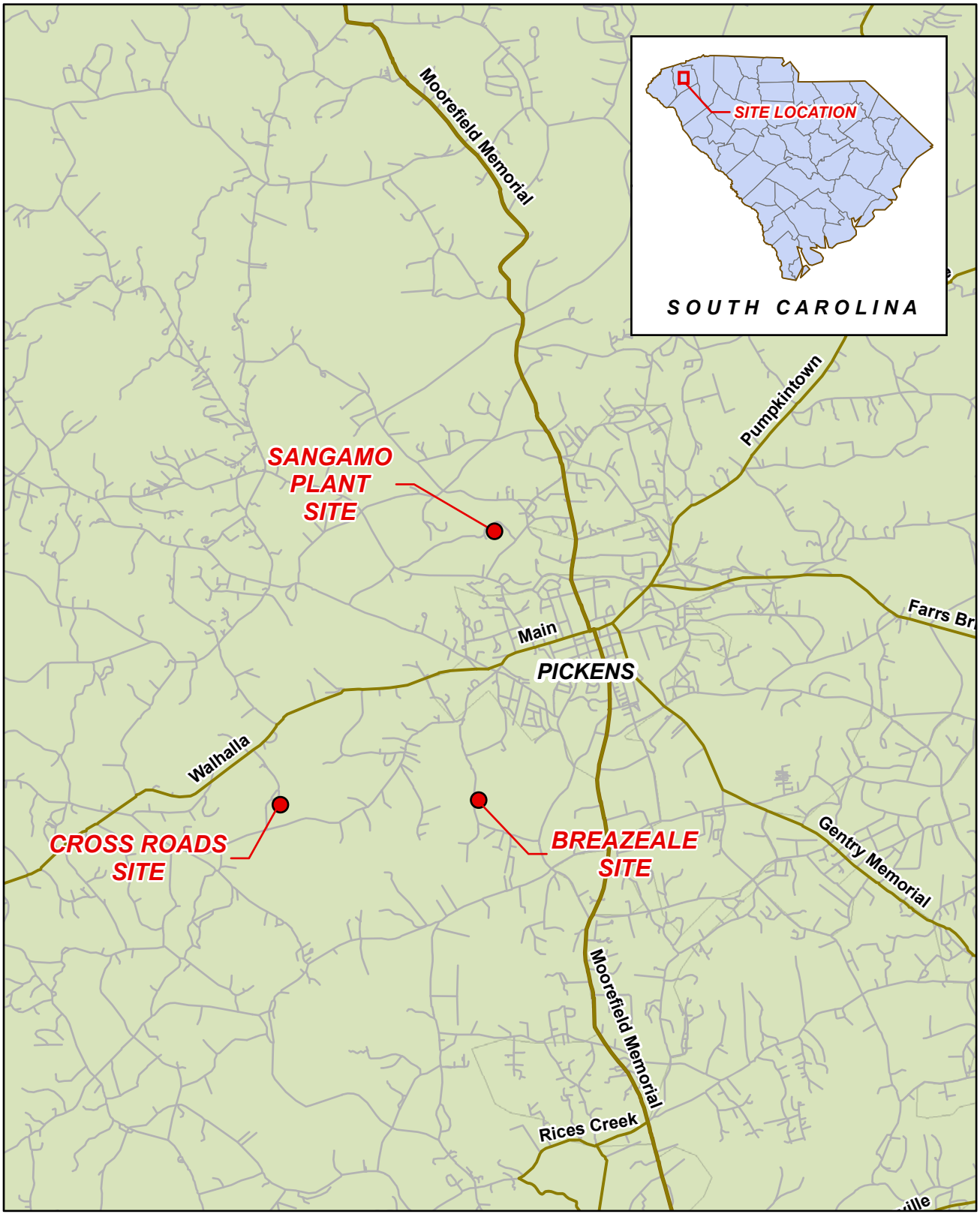
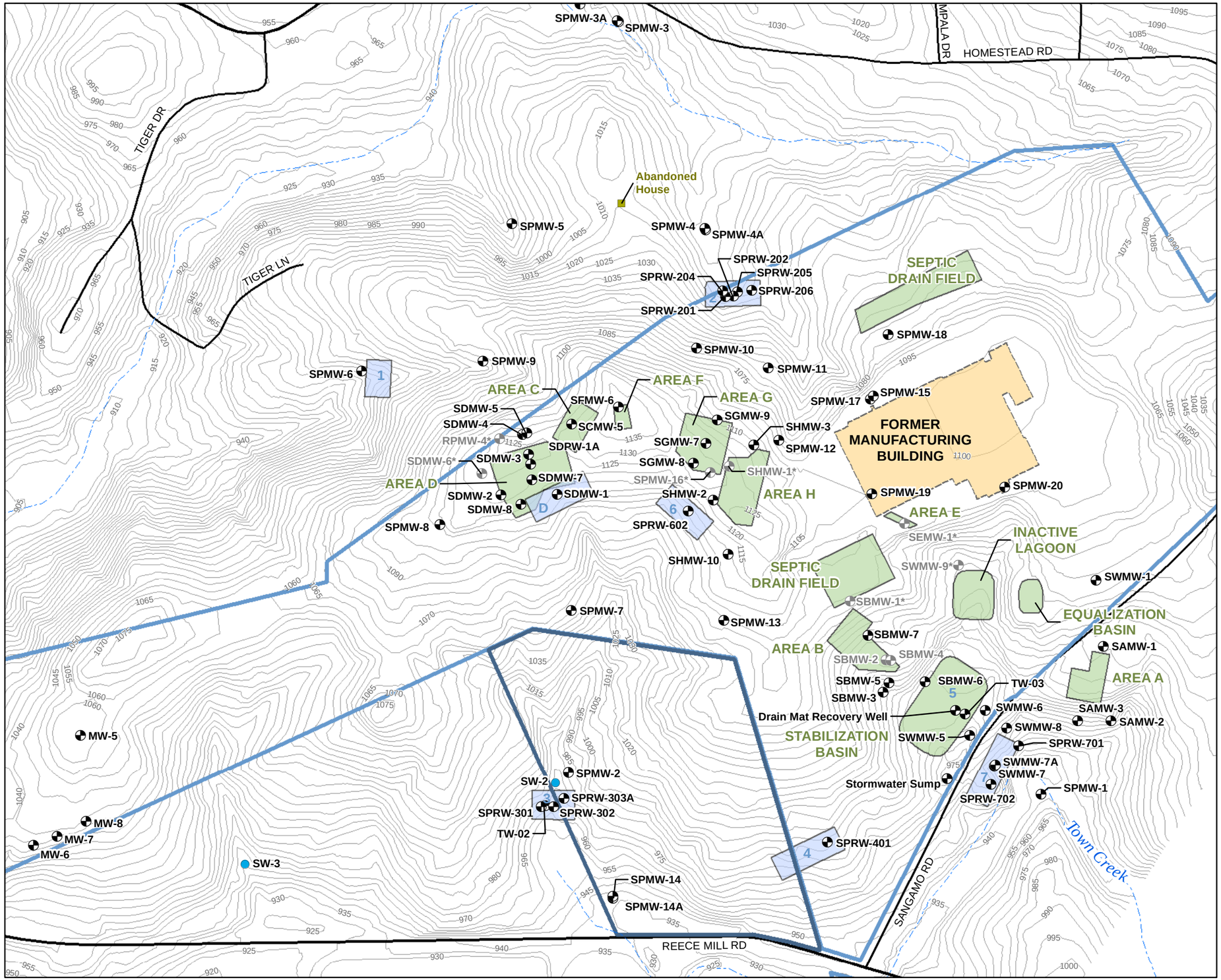
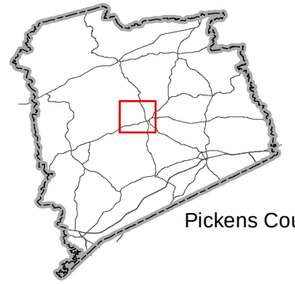


FIGURE 1
Location Map
Plant Site and Remote Sites
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina



VICINITY MAP



LEGEND

- Monitoring Well
- Abandoned Monitoring Well
- Surface Water Sample Location
- 5' Topographic Contour
- River or Creek
- Highway or Local Road
- Groundwater Recovery Area and Number
- RI Investigation Area
- Former Manufacturing Building Footprint
- Moore Property Boundary
- Schlumberger Property Boundary

Note:
* Could not locate well (presumed to be abandoned)

N

0 400 800
Feet

Source Data:
1. River and Creeks: National Hydrography Dataset (NHD), USGS. 1999
2. 10' Topographic Contour: Created using SangamoPlantTIN, Schulmberger

FIGURE 2
Plant Site Map
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

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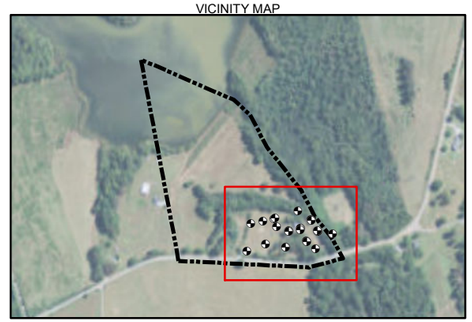
VICINITY MAP



LEGEND

- Performance Monitoring Well
- Plugged and Abandoned Well
- Injection Well
- Wolf Creek
- Highway or Local Road
- Legal Boundary
- Approximate Footprint of Former Soil Excavation Area

Note:
* Could not locate (presumed to be abandoned)

N

0 40 80 160
Feet

FIGURE 3
Breazeale Site Map
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

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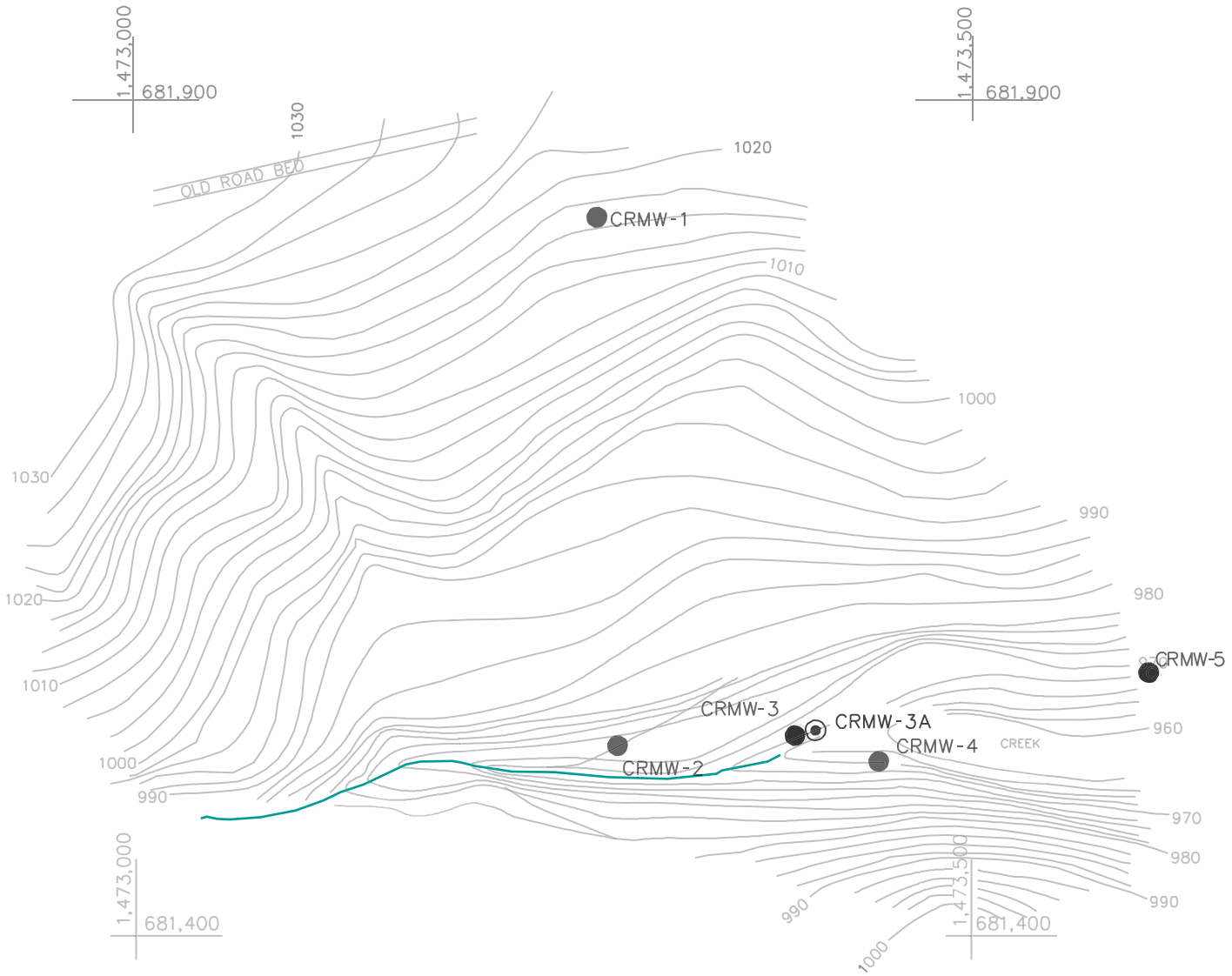
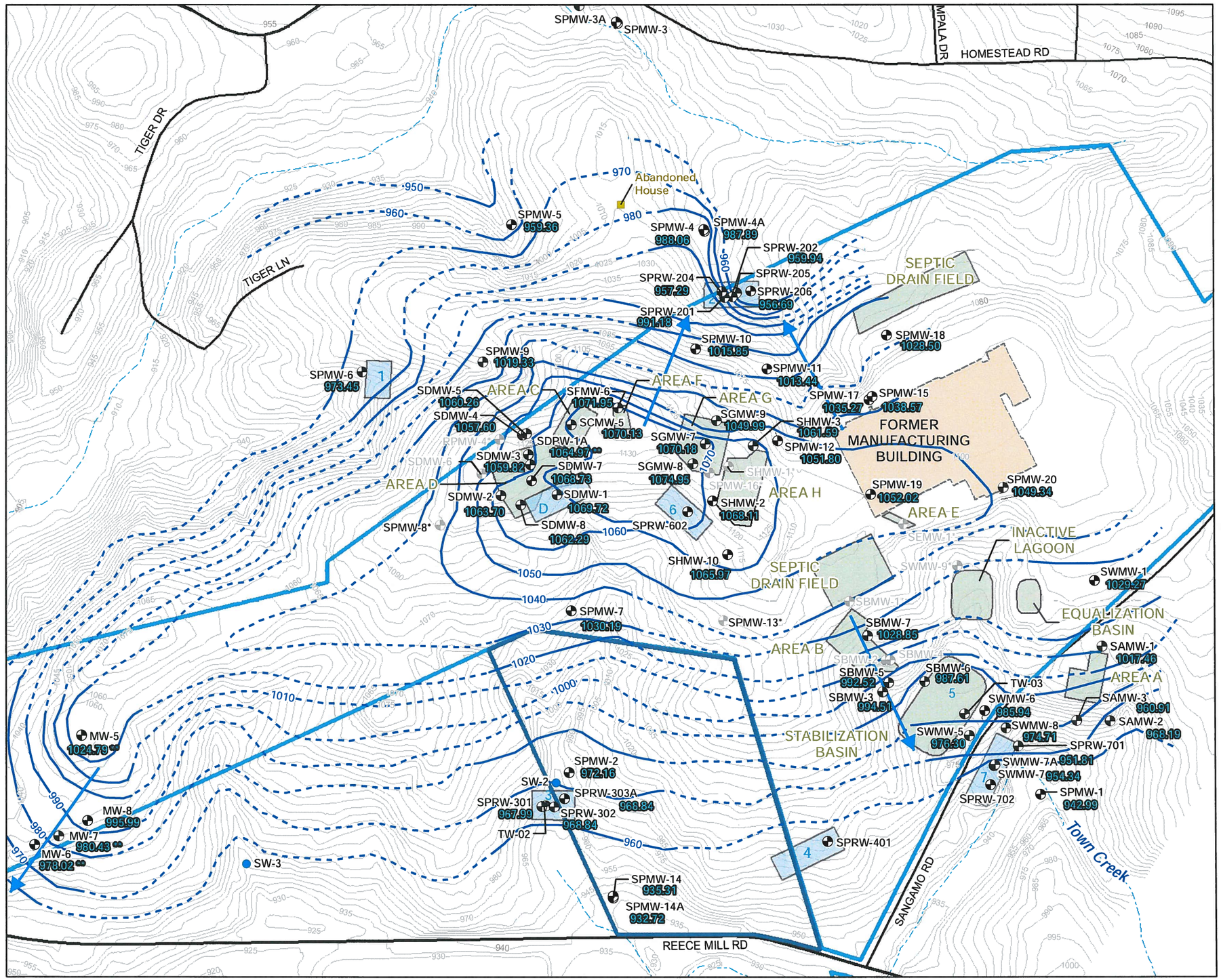
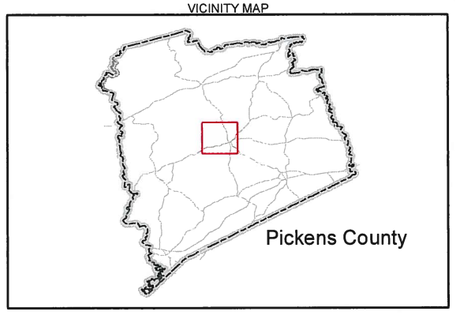


FIGURE 4
Cross Roads Site Map
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina



VICINITY MAP



LEGEND

- Monitoring Well
- Abandoned Monitoring Well
- Surface Water Sample Location
- Groundwater Flow Direction
- Groundwater Elevation Contour (Dashed where Inferred)
- 5' Topographic Contour
- River or Creek
- Highway or Local Road
- Groundwater Recovery Area and Number
- RI Investigation Area
- Former Manufacturing Building Footprint
- Moore Property Boundary
- Schlumberger Property Boundary
- 994.51 Water Level Elevation in feet above mean sea level

Notes:
* Could not locate well (presumed to be abandoned)
** Approximation: Well monument above ground surface

N

0 400 800
Feet

RICHARD L. POWELL REGISTERED No. 2540 PROFESSIONAL GEOLOGIST SOUTH CAROLINA

Source Data:
1. River and Creeks: National Hydrography Dataset (NHD), USGS. 1999
2. 10' Topographic Contour: Created using SangamoPlantTIN, Schulmberger

FIGURE 5
Plant Site Potentiometric Surface Map
March 2015
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

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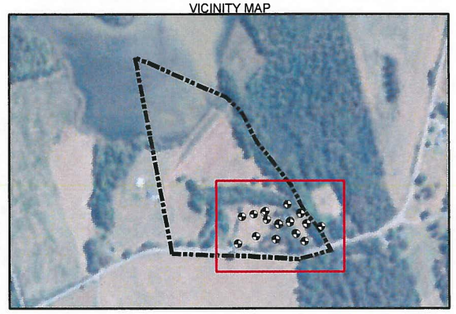
VICINITY MAP



LEGEND

- Performance Monitoring Well
- Plugged and Abandoned
- Injection Well
- Wolf Creek
- Groundwater Elevation contour (Dashed where Inferred)
- Groundwater Flow Direction
- Highway or Local Road
- Legal Boundary
- Approximate Footprint of Former Soil Excavation Area
- 875.8 Water Level Elevation in feet above mean sea level

Note:
* Could not locate (presumed to be abandoned)

N

0 35 70 140
Feet

RICHARD E. POWELL REGISTERED No. 2040 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

FIGURE 6
Breazeale Site Potentiometric Surface Map
March 2015
Annual Report Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

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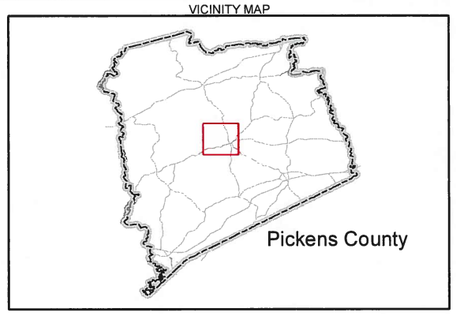
VICINITY MAP



LEGEND

- Monitoring Well
- Abandoned Monitoring Well
- Surface Water Sample Location
- 5' Topographic Contour
- River or Creek
- Highway or Local Road
- Groundwater Recovery Area and Number
- RI Investigation Area
- Former Manufacturing Building Footprint
- Moore Property Boundary
- Schlumberger Property Boundary
- Total VOCs in Groundwater (ug/L)
- Inferred Total VOCs in Groundwater
- UD VOCs Not Detected

Notes:
Total VOC concentrations rounded to nearest whole number value
* Could not locate well (presumed to be abandoned)

RICHARD E. POWELL REGISTERED No. 2540 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

N

0 400 800
Feet

Source Data:
1. River and Creeks: National Hydrography Dataset (NHD), USGS. 1999
2. 10' Topographic Contour: Created using SangamoPlantTIN, Schulmberger

FIGURE 7
Plant Site VOC Concentrations in Groundwater
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

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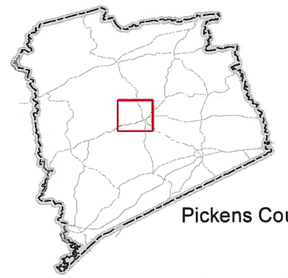
\\canopus\Groups\GIS\00_Proj\S\Schlumberger\Sangamo_Site\Maps\Annual_Report_2015\Fig7_Plant_Site_VOC_20150605.mxd

VICINITY MAP



LEGEND

- Monitoring Well
- Abandoned Monitoring Well
- Surface Water Sample Location
- 5' Topographic Contour
- River or Creek
- Highway or Local Road
- Groundwater Recovery Area and Number
- RI Investigation Area
- Former Manufacturing Building Footprint
- Moore Property Boundary
- Schlumberger Property Boundary
- PCB Concentrations in Groundwater (ug/L)
- Inferred PCB Concentrations in Groundwater
- UD PCBs Not Detected

Note:
* Could not locate (presumed to be abandoned)

Source Data:
1. River and Creeks: National Hydrography Dataset (NHD), USGS. 1999
2. 10' Topographic Contour: Created using SangamoPlantTIN, Schulmberger

FIGURE 8
Plant Site PCB Concentrations in Groundwater
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

CH2MHILL

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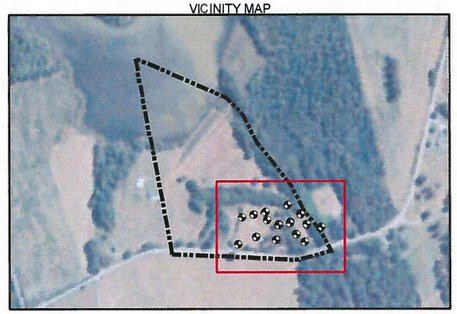
VICINITY MAP



Former Wastewater Treatment Plant

BRMW-07

EW-201

EW-101

BRMW-12

BRMW-12A 1.03 0.357 J

EW-102

BRMW-06

BRMW-10 0.345 J

BRMW-02A 40 3 1.42 0.501 J

BRMW-02 UD 140 59.3

EW-202

BRMW-11 1420 2150

INJ-01

BRMW-03 1.64 1.28

BRMW-03A UD UD

BRMW-03B

BRMW-08B

BRMW-08 UD UD

BRMW-08A

EW-103

BRMW-13*

BRMW-05A UD UD

BRMW-05 0.183 J UD

BRMW-05B

150

5

5

EW-203

EW-104

BRMW-14 0.34 J UD

BRMW-14A 0.335 J UD

BRMW-15

EW-105

BRMW-04A 11 2.32

BRMW-04 7.48 UD

EW-204

BRMW-09 UD UD

BRMW-01 UD UD

WOLF CREEK SCHOOL RD

LEGEND

- Performance Monitoring Well
- Plugged and Abandoned Well
- Injection Well
- Wolf Creek
- Highway or Local Road
- Legal Boundary
- Approximate Footprint of Former Soil Excavation Area
- PCE Isoconcentration Contour- Performance Standard MCL (5 ug/L) and Interim Protection Level (40 ug/L)
- Inferred PCE Concentration
- TCE Isoconcentration Contour- Performance Standard MCL (5 ug/L) and Interim Protection Level (150 ug/L)
- Inferred TCE Concentration
- 1.42 / 2.32 Numbers Indicate PCE/TCE Concentrations, ug/L
- UD / UD PCE/TCE Not Detected
- 1420 Concentration exceeds the Interim Protection Level

Note:
* Could not locate (presumed to be abandoned)

N

0 40 80 160
Feet

RICHARD E. POWELL REGISTERED No. 2540 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

FIGURE 9
Breazeale Site PCE and TCE Concentrations in Groundwater
Annual Report, Period April 2014 to March 2015
Sangamo Weston Site, Pickens, South Carolina

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Charts

Chart 1

WWTP Cumulative Mass Removal - VOCs

Annual Report, Period April 2014 to March 2015

Sangamo Weston Site, Pickens, South Carolina

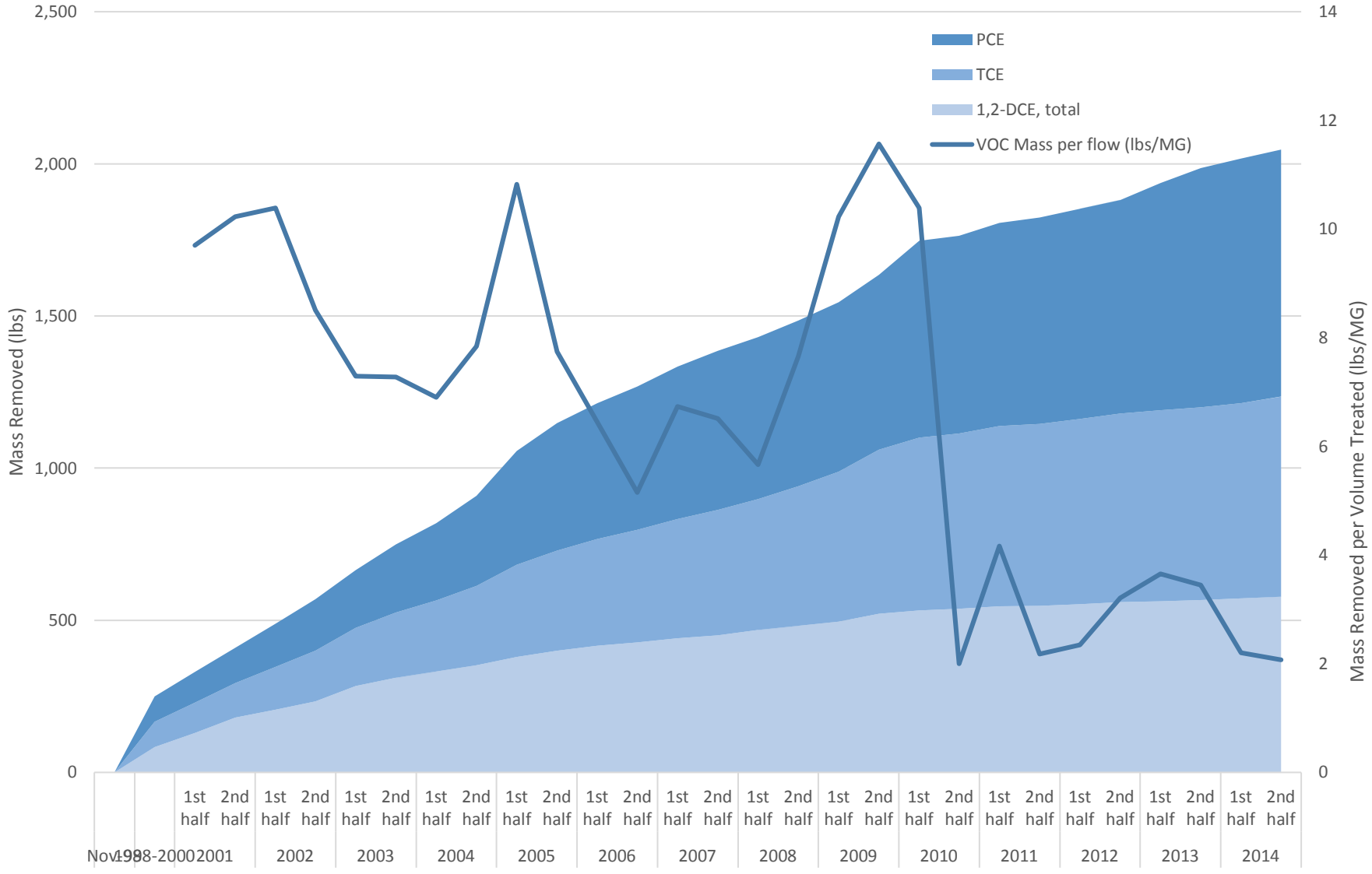
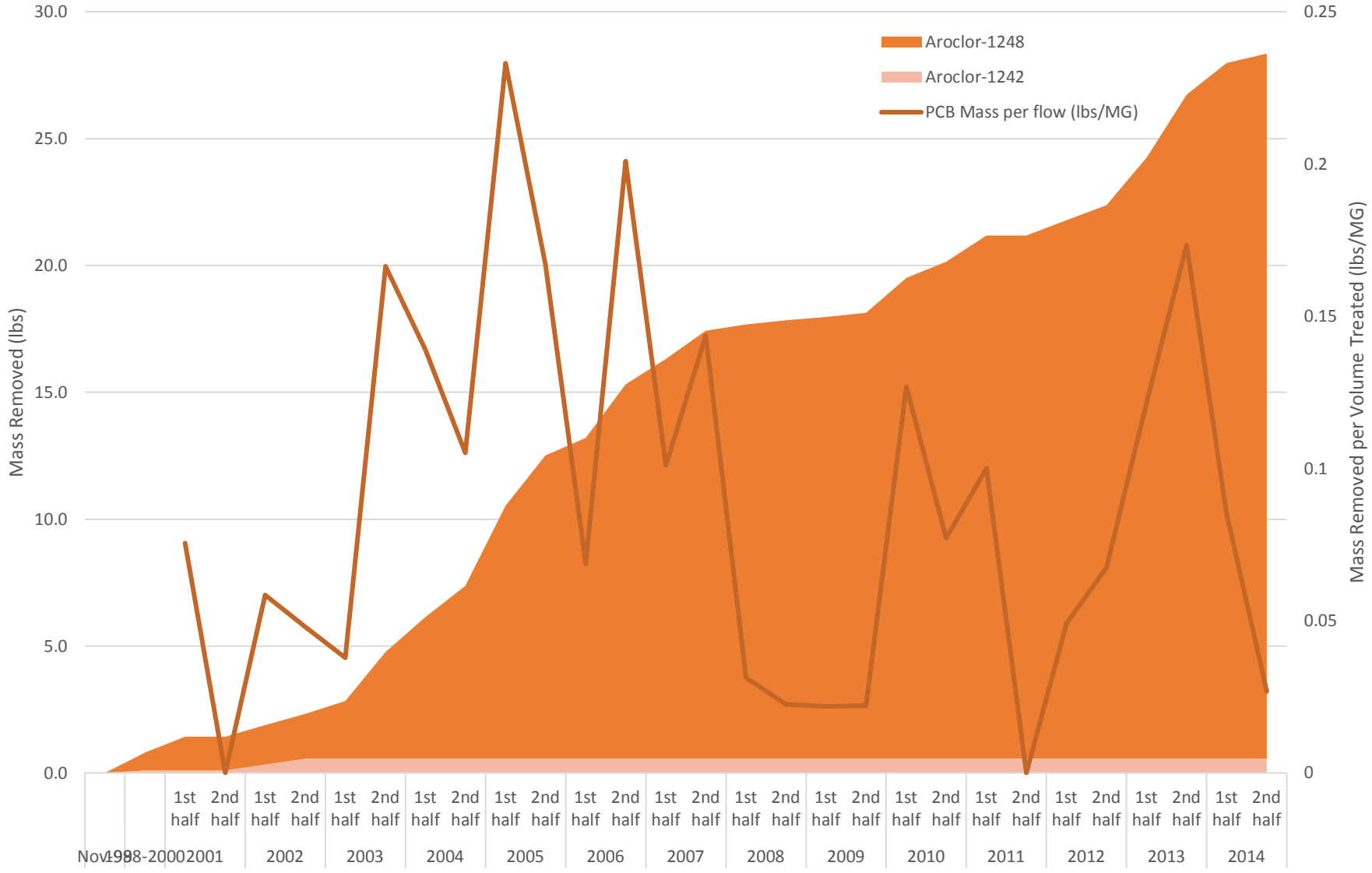


Chart 2

WWTP Cumulative Mass Removal - PCBs

Annual Report, Period April 2014 to March 2015

Sangamo Weston Site, Pickens, South Carolina



Appendix A
Laboratory Reports

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 490-75765-1

Job Description: Schlumberger Sangamo OU-1 GW 2015

For:
CH2M Hill, Inc.
Embassy Row
6600 Peachtree Dunwoody Road
Building 400 - Suite 600
Atlanta, GA 30328

Attention: Lillian Furlow

Approved for release.
Shali Brown
Project Manager II
4/23/2015 10:53 AM

Shali Brown, Project Manager II
2960 Foster Creighton Drive, Nashville, TN, 37204
(615)301-5031
shali.brown@testamericainc.com
04/23/2015

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CASE NARRATIVE

Client: CH2M Hill, Inc.

Project: Schlumberger Sangamo OU-1 GW 2015

Report Number: 490-75765-1

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

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

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

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 4/2/2015 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2º C and 2.1º C.

Except:

The COC records 2 unpreserved but we only received 1 unpreserved liter for 8082 sample SCMW-5-GW-HS-040115 (490-75765-2)

Insufficient sample volume was provided for the following sample for the 8082 analysis (only received 2 liters for the sample and for the MS/MSD requested): SDMW-7-GW-HS-040115 (490-75765-6), SDMW-7-GW-HS-040115 (490-75765-6[MS]) and SDMW-7-GW-HS-040115 (490-75765-6[MSD]). Three liters are required for the sample, MS, and MSD.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SGMW-9-GW-HS-040115 (490-75765-8). The container labels list SGMW-9-GW-HS-040115, while the COC lists SFMW-9-GW-HS-040115. Reference email in chain of custody section of this report for sample ID changes.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples SWMW-1-GW-HS-040115 (490-75765-1), SCMW-5-GW-HS-040115 (490-75765-2), SDMW-2-GW-HS-040115 (490-75765-3), SDMW-4-GW-HS-040115 (490-75765-4), SDMW-4-GW-HS-040115-FD (490-75765-5), SDMW-7-GW-HS-040115 (490-75765-6), SDMW-8-GW-HS-040115 (490-75765-7), SGMW-9-GW-HS-040115 (490-75765-8), SGMW-7-GW-HS-040115 (490-75765-9), SHMW-2-GW-HS-040115 (490-75765-10), SHMW-3-GW-HS-040115 (490-75765-11), SPMW-15-GW-HS-040115 (490-75765-12), SPMW-17-GW-HS-040115 (490-75765-13), SPMW-17-GW-HS-040115-FD (490-75765-14), SPMW-19-GW-HS-040115 (490-75765-15), SPMW-20-GW-HS-040115 (490-75765-16), SW-2-SW-040115 (490-75765-17), SW-2-SW-040115-FD (490-75765-18), SW-3-SW-040115 (490-75765-19) and TB-01-040115 (490-75765-20) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/09/2015 and 04/10/2015.

Tetrachloroethene failed the recovery criteria high for the MS of sample SDMW-2-GW-HS-040115MS (490-75765-3) in batch 490-240119. Refer to the QC report for details.

The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: SPMW-17-GW-HS-040115-FD

(490-75765-14). Based on sample date, the following volatile sample was analyzed out of hold.

Samples SDMW-4-GW-HS-040115 (490-75765-4)[10X], SDMW-4-GW-HS-040115-FD (490-75765-5)[10X], SDMW-8-GW-HS-040115 (490-75765-7)[10X], SHMW-3-GW-HS-040115 (490-75765-11)[50X] and SPMW-20-GW-HS-040115 (490-75765-16)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

POLYCHLORINATED BIPHENYLS (PCBS)

Samples SCMW-5-GW-HS-040115 (490-75765-2), SDMW-7-GW-HS-040115 (490-75765-6), SDMW-8-GW-HS-040115 (490-75765-7) and SHMW-2-GW-HS-040115 (490-75765-10) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 04/06/2015 and analyzed on 04/14/2015.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 239249.

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

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP48 Analysis Batch Number: 188769

Lab Sample ID: STD0005 490-188769/2 IC Client Sample ID:

Date Analyzed: 09/05/14 13:38 Lab File ID: 09051409.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.55	Baseline	grimmj	09/06/14 07:57
2-Butanone (MEK)	3.37	Baseline	grimmj	09/06/14 07:57

Lab Sample ID: STD001 490-188769/3 IC Client Sample ID:

Date Analyzed: 09/05/14 14:07 Lab File ID: 09051410.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.55	Baseline	grimmj	09/06/14 08:52
Ethanol	2.10	Shouldering	grimmj	09/06/14 08:52
Acrolein	2.24	Baseline	grimmj	09/06/14 08:52
2-Butanone (MEK)	3.38	Baseline	grimmj	09/06/14 08:52
1,4-Dichlorobenzene	8.66	Shouldering	grimmj	09/06/14 08:52

Lab Sample ID: STD002 490-188769/4 IC Client Sample ID:

Date Analyzed: 09/05/14 14:35 Lab File ID: 09051411.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.55	Baseline	grimmj	09/06/14 08:56
Cyclohexanone	7.53	Split Peak	grimmj	09/06/14 08:57

Lab Sample ID: STD005 490-188769/5 IC Client Sample ID:

Date Analyzed: 09/05/14 15:03 Lab File ID: 09051412.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.11	Shouldering	grimmj	09/06/14 09:01

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP48 Analysis Batch Number: 188769

Lab Sample ID: STD020 490-188769/7 IC Client Sample ID:

Date Analyzed: 09/05/14 16:00 Lab File ID: 09051414.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.11	Shouldering	grimmj	09/06/14 09:04

Lab Sample ID: ICIS 490-188769/8 Client Sample ID:

Date Analyzed: 09/05/14 16:29 Lab File ID: 09051415.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.11	Shouldering	grimmj	09/06/14 07:51

Lab Sample ID: ICV 490-188769/9 Client Sample ID:

Date Analyzed: 09/05/14 16:57 Lab File ID: 09051416.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.11	Shouldering	grimmj	09/06/14 09:50

Lab Sample ID: STD100 490-188769/10 IC Client Sample ID:

Date Analyzed: 09/05/14 17:25 Lab File ID: 09051417.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.11	Shouldering	grimmj	09/06/14 09:05
t-Amyl alcohol	3.93	Shouldering	grimmj	09/06/14 09:05

Lab Sample ID: STD200 490-188769/11 IC Client Sample ID:

Date Analyzed: 09/05/14 17:54 Lab File ID: 09051418.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.11	Shouldering	grimmj	09/06/14 09:06

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP48 Analysis Batch Number: 188769

Lab Sample ID: STD400 490-188769/12 IC Client Sample ID:

Date Analyzed: 09/05/14 18:22 Lab File ID: 09051419.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Amyl alcohol	3.94	Shouldering	grimmj	09/06/14 09:08
Tert-amyl methyl ether	3.98	Shouldering	grimmj	09/06/14 09:08

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/25 Client Sample ID:

Date Analyzed: 03/31/15 01:54 Lab File ID: 033015hp37.025dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:58
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:58
PCB-1221 Peak 3	3.05	Baseline Smoothing	thomash	03/31/15 11:58

Lab Sample ID: IC 490-237639/25 Client Sample ID:

Date Analyzed: 03/31/15 01:54 Lab File ID: 033015hp37.025dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 11:58
PCB-1221 Peak 1	2.25	Baseline Smoothing	thomash	03/31/15 11:58
PCB-1221 Peak 2	2.41	Baseline Smoothing	thomash	03/31/15 11:58
PCB-1221 Peak 3	3.18	Baseline Smoothing	thomash	03/31/15 11:58

Lab Sample ID: IC 490-237639/26 Client Sample ID:

Date Analyzed: 03/31/15 02:10 Lab File ID: 033015hp37.026dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 3	3.04	Baseline Smoothing	thomash	03/31/15 11:57

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/26 Client Sample ID:

Date Analyzed: 03/31/15 02:10 Lab File ID: 033015hp37.026dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 1	2.25	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 2	2.41	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 3	3.18	Baseline Smoothing	thomash	03/31/15 11:57

Lab Sample ID: IC 490-237639/27 Client Sample ID:

Date Analyzed: 03/31/15 02:25 Lab File ID: 033015hp37.027dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 3	3.04	Baseline Smoothing	thomash	03/31/15 11:57

Lab Sample ID: IC 490-237639/27 Client Sample ID:

Date Analyzed: 03/31/15 02:25 Lab File ID: 033015hp37.027dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 1	2.25	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 2	2.41	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 3	3.18	Baseline Smoothing	thomash	03/31/15 11:57

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/28 Client Sample ID:

Date Analyzed: 03/31/15 02:41 Lab File ID: 033015hp37.028dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 3	3.05	Baseline Smoothing	thomash	03/31/15 11:56

Lab Sample ID: ICIS 490-237639/29 Client Sample ID:

Date Analyzed: 03/31/15 02:56 Lab File ID: 033015hp37.029dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 3	3.05	Baseline Smoothing	thomash	03/31/15 11:56

Lab Sample ID: ICIS 490-237639/29 Client Sample ID:

Date Analyzed: 03/31/15 02:56 Lab File ID: 033015hp37.029dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 1	2.25	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 2	2.41	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 3	3.18	Baseline Smoothing	thomash	03/31/15 11:56

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/30 Client Sample ID:

Date Analyzed: 03/31/15 03:12 Lab File ID: 033015hp37.030dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 11:59
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:59
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:59
PCB-1221 Peak 3	3.05	Baseline Smoothing	thomash	03/31/15 11:59

Lab Sample ID: IC 490-237639/31 Client Sample ID:

Date Analyzed: 03/31/15 03:27 Lab File ID: 033015hp37.031dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 11:59
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:59
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:59
PCB-1221 Peak 3	3.05	Baseline Smoothing	thomash	03/31/15 11:59

Lab Sample ID: IC 490-237639/33 Client Sample ID:

Date Analyzed: 03/31/15 03:59 Lab File ID: 033015hp37.033dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:12

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/33 Client Sample ID:

Date Analyzed: 03/31/15 03:59 Lab File ID: 033015hp37.033dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1232 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 3	3.16	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 4	3.18	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 5	3.42	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1262 Peak 1	6.51	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1262 Peak 2	6.84	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1262 Peak 3	7.33	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1262 Peak 4	7.90	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1262 Peak 5	8.57	Baseline Smoothing	thomash	03/31/15 12:12

Lab Sample ID: IC 490-237639/34 Client Sample ID:

Date Analyzed: 03/31/15 04:14 Lab File ID: 033015hp37.034dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:13

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/34 Client Sample ID:

Date Analyzed: 03/31/15 04:14 Lab File ID: 033015hp37.034dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.50	Incomplete Integration	thomash	03/31/15 12:13
PCB-1232 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 3	3.16	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 4	3.18	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 5	3.42	Baseline Smoothing	thomash	03/31/15 12:13

Lab Sample ID: IC 490-237639/35 Client Sample ID:

Date Analyzed: 03/31/15 04:30 Lab File ID: 033015hp37.035dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:13

Lab Sample ID: IC 490-237639/36 Client Sample ID:

Date Analyzed: 03/31/15 04:45 Lab File ID: 033015hp37.036dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:14

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/36 Client Sample ID:

Date Analyzed: 03/31/15 04:45 Lab File ID: 033015hp37.036dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 1	6.51	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 2	6.84	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 3	7.33	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 4	7.90	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 5	8.57	Baseline Smoothing	thomash	03/31/15 12:14

Lab Sample ID: ICIS 490-237639/37 Client Sample ID:

Date Analyzed: 03/31/15 05:00 Lab File ID: 033015hp37.037dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 1	6.12	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 2	6.53	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 3	7.00	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 4	7.39	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 5	8.13	Baseline Smoothing	thomash	03/31/15 12:14

Lab Sample ID: ICIS 490-237639/37 Client Sample ID:

Date Analyzed: 03/31/15 05:00 Lab File ID: 033015hp37.037dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 12:14

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/38 Client Sample ID:

Date Analyzed: 03/31/15 05:16 Lab File ID: 033015hp37.038dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:15

Lab Sample ID: IC 490-237639/39 Client Sample ID:

Date Analyzed: 03/31/15 05:31 Lab File ID: 033015hp37.039dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:15

Lab Sample ID: IC 490-237639/39 Client Sample ID:

Date Analyzed: 03/31/15 05:31 Lab File ID: 033015hp37.039dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 3	3.16	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 4	3.18	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 5	3.42	Baseline Smoothing	thomash	03/31/15 12:15

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/41 Client Sample ID:

Date Analyzed: 03/31/15 06:02 Lab File ID: 033015hp37.041dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 13:16
PCB-1242 Peak 1	3.17	Baseline Smoothing	thomash	03/31/15 13:16
PCB-1242 Peak 2	3.23	Baseline Smoothing	thomash	03/31/15 13:16
PCB-1242 Peak 3	3.35	Baseline Smoothing	thomash	03/31/15 13:16
PCB-1242 Peak 4	3.38	Baseline Smoothing	thomash	03/31/15 13:16
PCB-1242 Peak 5	3.59	Baseline Smoothing	thomash	03/31/15 13:16

Lab Sample ID: IC 490-237639/41 Client Sample ID:

Date Analyzed: 03/31/15 06:02 Lab File ID: 033015hp37.041dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.31	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:04

Lab Sample ID: IC 490-237639/42 Client Sample ID:

Date Analyzed: 03/31/15 06:18 Lab File ID: 033015hp37.042dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 1	3.17	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 2	3.24	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 3	3.35	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 4	3.38	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 5	3.59	Baseline Smoothing	thomash	03/31/15 13:04

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/42 Client Sample ID:

Date Analyzed: 03/31/15 06:18 Lab File ID: 033015hp37.042dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.31	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:04

Lab Sample ID: IC 490-237639/43 Client Sample ID:

Date Analyzed: 03/31/15 06:33 Lab File ID: 033015hp37.043dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.17	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 2	3.24	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 3	3.35	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 4	3.38	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 5	3.59	Baseline Smoothing	thomash	03/31/15 13:05

Lab Sample ID: IC 490-237639/43 Client Sample ID:

Date Analyzed: 03/31/15 06:33 Lab File ID: 033015hp37.043dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.31	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:05

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/44 Client Sample ID:

Date Analyzed: 03/31/15 06:49 Lab File ID: 033015hp37.044dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 1	3.17	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 2	3.24	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 3	3.35	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 4	3.38	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 5	3.59	Split Peak	thomash	03/31/15 13:09

Lab Sample ID: IC 490-237639/44 Client Sample ID:

Date Analyzed: 03/31/15 06:49 Lab File ID: 033015hp37.044dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 1	3.31	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:05

Lab Sample ID: ICIS 490-237639/45 Client Sample ID:

Date Analyzed: 03/31/15 07:04 Lab File ID: 033015hp37.045dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.57	Baseline Smoothing	thomash	03/31/15 12:59
PCB-1242 Peak 1	3.17	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 2	3.24	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 3	3.35	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 4	3.38	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 5	3.59	Baseline Smoothing	thomash	03/31/15 13:06

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: ICIS 490-237639/45 Client Sample ID:

Date Analyzed: 03/31/15 07:04 Lab File ID: 033015hp37.045dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 1	3.31	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1268 Peak 2	7.39	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1268 Peak 3	7.73	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1268 Peak 4	8.12	Baseline Smoothing	thomash	03/31/15 13:06

Lab Sample ID: IC 490-237639/46 Client Sample ID:

Date Analyzed: 03/31/15 07:20 Lab File ID: 033015hp37.046dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.57	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 1	3.17	Split Peak	thomash	03/31/15 13:10
PCB-1242 Peak 2	3.24	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 3	3.35	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 4	3.38	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 5	3.59	Baseline Smoothing	thomash	03/31/15 13:06

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/46 Client Sample ID:

Date Analyzed: 03/31/15 07:20 Lab File ID: 033015hp37.046dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 1	3.32	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1268 Peak 2	7.40	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1268 Peak 3	7.74	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1268 Peak 4	8.12	Baseline Smoothing	thomash	03/31/15 13:06

Lab Sample ID: IC 490-237639/47 Client Sample ID:

Date Analyzed: 03/31/15 07:35 Lab File ID: 033015hp37.047dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 1	3.17	Split Peak	thomash	03/31/15 13:10
PCB-1242 Peak 2	3.24	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 3	3.35	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 4	3.38	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 5	3.59	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 1	6.95	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 2	7.00	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 3	7.26	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 4	7.74	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 5	8.13	Baseline Smoothing	thomash	03/31/15 13:07

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/47 Client Sample ID:

Date Analyzed: 03/31/15 07:35 Lab File ID: 033015hp37.047dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.31	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 1	6.51	Unspecified	thomash	03/31/15 13:24
PCB-1268 Peak 2	7.40	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 3	7.74	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 4	8.13	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 5	8.93	Baseline Smoothing	thomash	03/31/15 13:07

Lab Sample ID: ICIS 490-237639/53 Client Sample ID:

Date Analyzed: 03/31/15 09:09 Lab File ID: 033015hp37.053dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.50	Incomplete Integration	thomash	03/31/15 12:36

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: IC 490-237912/3 Client Sample ID:

Date Analyzed: 03/31/15 16:21 Lab File ID: 033115hp37.003dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 17:45
Tetrachloro-m-xylene	2.06	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1260 Peak 3	5.66	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1260 Peak 4	6.13	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 17:45

Lab Sample ID: IC 490-237912/3 Client Sample ID:

Date Analyzed: 03/31/15 16:21 Lab File ID: 033115hp37.003dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 17:45
Tetrachloro-m-xylene	2.04	Baseline Smoothing	thomash	03/31/15 18:02
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 2	2.75	Split Peak	thomash	03/31/15 18:20
PCB-1016 Peak 3	2.95	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 17:45

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: IC 490-237912/4 Client Sample ID:

Date Analyzed: 03/31/15 16:36 Lab File ID: 033115hp37.004dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.57	Baseline Smoothing	thomash	03/31/15 17:44
Tetrachloro-m-xylene	2.06	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 3	5.66	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 4	6.13	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 17:44

Lab Sample ID: IC 490-237912/4 Client Sample ID:

Date Analyzed: 03/31/15 16:36 Lab File ID: 033115hp37.004dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 17:44
Tetrachloro-m-xylene	2.04	Baseline Smoothing	thomash	03/31/15 18:02
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 3	2.95	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 1	5.55	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 2	6.01	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 3	6.51	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 4	6.60	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 5	6.84	Baseline Smoothing	thomash	03/31/15 17:44

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: IC 490-237912/5 Client Sample ID:

Date Analyzed: 03/31/15 16:52 Lab File ID: 033115hp37.005dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.57	Baseline Smoothing	thomash	03/31/15 17:42
Tetrachloro-m-xylene	2.06	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1260 Peak 3	5.66	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1260 Peak 4	6.13	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 17:42

Lab Sample ID: IC 490-237912/5 Client Sample ID:

Date Analyzed: 03/31/15 16:52 Lab File ID: 033115hp37.005dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 18:02
Tetrachloro-m-xylene	2.05	Baseline Smoothing	thomash	03/31/15 18:02
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 18:02
PCB-1016 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 3	2.95	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 17:42

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: IC 490-237912/6 Client Sample ID:

Date Analyzed: 03/31/15 17:08 Lab File ID: 033115hp37.006dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 17:40
Tetrachloro-m-xylene	2.06	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 3	5.66	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 4	6.12	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 17:40

Lab Sample ID: IC 490-237912/6 Client Sample ID:

Date Analyzed: 03/31/15 17:08 Lab File ID: 033115hp37.006dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 17:40
Tetrachloro-m-xylene	2.04	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 3	2.94	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 1	5.55	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 2	6.01	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 3	6.51	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 4	6.60	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 5	6.84	Baseline Smoothing	thomash	03/31/15 17:40

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: ICRT 490-237912/7 Client Sample ID:

Date Analyzed: 03/31/15 17:23 Lab File ID: 033115hp37.007dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.57	Baseline Smoothing	thomash	03/31/15 17:39
Tetrachloro-m-xylene	2.06	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 3	5.66	Split Peak	thomash	03/31/15 17:39
PCB-1260 Peak 4	6.13	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 17:39

Lab Sample ID: ICRT 490-237912/7 Client Sample ID:

Date Analyzed: 03/31/15 17:23 Lab File ID: 033115hp37.007dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 17:39
Tetrachloro-m-xylene	2.05	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 2	2.75	Split Peak	thomash	03/31/15 17:39
PCB-1016 Peak 3	2.95	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 1	5.55	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 2	6.01	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 3	6.51	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 4	6.61	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 5	6.85	Baseline Smoothing	thomash	03/31/15 17:39

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: IC 490-237912/8 Client Sample ID:

Date Analyzed: 03/31/15 17:39 Lab File ID: 033115hp37.008dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.57	Baseline Smoothing	thomash	03/31/15 17:55
Tetrachloro-m-xylene	2.06	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1260 Peak 3	5.66	Split Peak	thomash	03/31/15 17:55
PCB-1260 Peak 4	6.12	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 17:55

Lab Sample ID: IC 490-237912/8 Client Sample ID:

Date Analyzed: 03/31/15 17:39 Lab File ID: 033115hp37.008dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 18:18
Tetrachloro-m-xylene	2.05	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 2	2.75	Split Peak	thomash	03/31/15 17:55
PCB-1016 Peak 3	2.95	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1260 Peak 1	5.55	Baseline Smoothing	thomash	03/31/15 18:26
PCB-1260 Peak 2	6.01	Baseline Smoothing	thomash	03/31/15 18:26
PCB-1260 Peak 3	6.51	Baseline Smoothing	thomash	03/31/15 18:26
PCB-1260 Peak 4	6.61	Baseline Smoothing	thomash	03/31/15 18:26
PCB-1260 Peak 5	6.85	Baseline Smoothing	thomash	03/31/15 18:26

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: IC 490-237912/9 Client Sample ID:

Date Analyzed: 03/31/15 17:54 Lab File ID: 033115hp37.009dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	4.97	Split Peak	thomash	03/31/15 18:25
PCB-1260 Peak 2	5.31	Split Peak	thomash	03/31/15 18:25
PCB-1260 Peak 3	5.66	Split Peak	thomash	03/31/15 18:25
PCB-1260 Peak 4	6.13	Split Peak	thomash	03/31/15 18:25
PCB-1260 Peak 5	6.53	Split Peak	thomash	03/31/15 18:25

Lab Sample ID: IC 490-237912/9 Client Sample ID:

Date Analyzed: 03/31/15 17:54 Lab File ID: 033115hp37.009dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.41	Split Peak	thomash	03/31/15 18:19
PCB-1016 Peak 2	2.75	Split Peak	thomash	03/31/15 18:19
PCB-1016 Peak 3	2.95	Split Peak	thomash	03/31/15 18:19
PCB-1016 Peak 4	2.98	Split Peak	thomash	03/31/15 18:19
PCB-1016 Peak 5	3.18	Split Peak	thomash	03/31/15 18:19

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: ICV 490-237912/10 Client Sample ID:

Date Analyzed: 03/31/15 18:10 Lab File ID: 033115hp37.010dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 3	5.66	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 4	6.13	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 18:32

Lab Sample ID: ICV 490-237912/10 Client Sample ID:

Date Analyzed: 03/31/15 18:10 Lab File ID: 033115hp37.010dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 3	2.95	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 1	5.55	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 2	6.01	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 3	6.51	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 4	6.60	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 5	6.84	Baseline Smoothing	thomash	03/31/15 18:32

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241134

Lab Sample ID: CCVRT 490-241134/2 Client Sample ID:

Date Analyzed: 04/14/15 12:15 Lab File ID: 041415hp37.002dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	4.95	Split Peak	harrisma	04/14/15 13:01
PCB-1260 Peak 2	5.29	Split Peak	harrisma	04/14/15 13:01
PCB-1260 Peak 3	5.64	Split Peak	harrisma	04/14/15 13:01
PCB-1260 Peak 4	6.10	Split Peak	harrisma	04/14/15 13:01
PCB-1260 Peak 5	6.50	Split Peak	harrisma	04/14/15 13:01

Lab Sample ID: CCVRT 490-241134/2 Client Sample ID:

Date Analyzed: 04/14/15 12:15 Lab File ID: 041415hp37.002dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.40	Split Peak	harrisma	04/14/15 13:01
PCB-1016 Peak 2	2.74	Split Peak	harrisma	04/14/15 13:01
PCB-1016 Peak 3	2.94	Split Peak	harrisma	04/14/15 13:01
PCB-1016 Peak 4	2.97	Split Peak	harrisma	04/14/15 13:01
PCB-1016 Peak 5	3.17	Split Peak	harrisma	04/14/15 13:01

Lab Sample ID: CCV 490-241134/4 Client Sample ID:

Date Analyzed: 04/14/15 12:46 Lab File ID: 041415hp37.004dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1232 Peak 1	2.31	Baseline Smoothing	harrisma	04/14/15 13:05
PCB-1232 Peak 2	2.60	Baseline Smoothing	harrisma	04/14/15 13:05
PCB-1232 Peak 3	3.01	Baseline Smoothing	harrisma	04/14/15 13:05
PCB-1232 Peak 4	3.03	Baseline Smoothing	harrisma	04/14/15 13:05
PCB-1232 Peak 5	3.16	Baseline Smoothing	harrisma	04/14/15 13:05

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241134

Lab Sample ID: CCV 490-241134/5 Client Sample ID:

Date Analyzed: 04/14/15 13:02 Lab File ID: 041415hp37.005dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.16	Split Peak	harrisma	04/14/15 13:22
PCB-1242 Peak 2	3.22	Split Peak	harrisma	04/14/15 13:22
PCB-1242 Peak 3	3.34	Split Peak	harrisma	04/14/15 13:22
PCB-1242 Peak 4	3.36	Split Peak	harrisma	04/14/15 13:22
PCB-1242 Peak 5	3.57	Split Peak	harrisma	04/14/15 13:22

Lab Sample ID: LCS 490-239249/2-A Client Sample ID:

Date Analyzed: 04/14/15 22:55 Lab File ID: 041415hp37.043dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	4.95	Split Peak	thomash	04/15/15 09:17
PCB-1260 Peak 2	5.29	Split Peak	thomash	04/15/15 09:17
PCB-1260 Peak 3	5.64	Split Peak	thomash	04/15/15 09:17
PCB-1260 Peak 4	6.10	Split Peak	thomash	04/15/15 09:17
PCB-1260 Peak 5	6.50	Split Peak	thomash	04/15/15 09:17

Lab Sample ID: LCS 490-239249/2-A Client Sample ID:

Date Analyzed: 04/14/15 22:55 Lab File ID: 041415hp37.043dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.40	Split Peak	thomash	04/15/15 09:17
PCB-1016 Peak 2	2.74	Split Peak	thomash	04/15/15 09:17
PCB-1016 Peak 3	2.94	Split Peak	thomash	04/15/15 09:17
PCB-1016 Peak 4	2.97	Split Peak	thomash	04/15/15 09:17
PCB-1016 Peak 5	3.17	Split Peak	thomash	04/15/15 09:17

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241134

Lab Sample ID: CCV 490-241134/78 Client Sample ID:

Date Analyzed: 04/15/15 11:51 Lab File ID: 041415hp37.078dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.16	Split Peak	harrisma	04/15/15 12:07
PCB-1242 Peak 2	3.22	Split Peak	harrisma	04/15/15 12:07
PCB-1242 Peak 3	3.34	Split Peak	harrisma	04/15/15 12:07
PCB-1242 Peak 4	3.37	Split Peak	harrisma	04/15/15 12:07
PCB-1242 Peak 5	3.58	Split Peak	harrisma	04/15/15 12:07

SAMPLE SUMMARY

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
490-75765-1	SWMW-1-GW-HS-040115	Ground Water	04/01/2015 1000	04/02/2015 0830
490-75765-2	SCMW-5-GW-HS-040115	Ground Water	04/01/2015 1420	04/02/2015 0830
490-75765-3	SDMW-2-GW-HS-040115	Ground Water	04/01/2015 1500	04/02/2015 0830
490-75765-3MS	SDMW-2-GW-HS-040115	Ground Water	04/01/2015 1500	04/02/2015 0830
490-75765-3MSD	SDMW-2-GW-HS-040115	Ground Water	04/01/2015 1500	04/02/2015 0830
490-75765-4	SDMW-4-GW-HS-040115	Ground Water	04/01/2015 1445	04/02/2015 0830
490-75765-5	SDMW-4-GW-HS-040115-FD	Ground Water	04/01/2015 1450	04/02/2015 0830
490-75765-6	SDMW-7-GW-HS-040115	Ground Water	04/01/2015 1535	04/02/2015 0830
490-75765-6MS	SDMW-7-GW-HS-040115	Ground Water	04/01/2015 1535	04/02/2015 0830
490-75765-6MSD	SDMW-7-GW-HS-040115	Ground Water	04/01/2015 1535	04/02/2015 0830
490-75765-7	SDMW-8-GW-HS-040115	Ground Water	04/01/2015 1520	04/02/2015 0830
490-75765-8	SGMW-9-GW-HS-040115	Ground Water	04/01/2015 1140	04/02/2015 0830
490-75765-9	SGMW-7-GW-HS-040115	Ground Water	04/01/2015 1125	04/02/2015 0830
490-75765-10	SHMW-2-GW-HS-040115	Ground Water	04/01/2015 1105	04/02/2015 0830
490-75765-11	SHMW-3-GW-HS-040115	Ground Water	04/01/2015 1055	04/02/2015 0830
490-75765-12	SPMW-15-GW-HS-040115	Ground Water	04/01/2015 1705	04/02/2015 0830
490-75765-13	SPMW-17-GW-HS-040115	Ground Water	04/01/2015 1655	04/02/2015 0830
490-75765-14	SPMW-17-GW-HS-040115-FD	Ground Water	04/01/2015 1700	04/02/2015 0830
490-75765-15	SPMW-19-GW-HS-040115	Ground Water	04/01/2015 1640	04/02/2015 0830
490-75765-16	SPMW-20-GW-HS-040115	Ground Water	04/01/2015 1040	04/02/2015 0830
490-75765-17	SW-2-SW-040115	Ground Water	04/01/2015 1425	04/02/2015 0830
490-75765-18	SW-2-SW-040115-FD	Ground Water	04/01/2015 1425	04/02/2015 0830
490-75765-19	SW-3-SW-040115	Ground Water	04/01/2015 1452	04/02/2015 0830
490-75765-19MS	SW-3-SW-040115	Ground Water	04/01/2015 1452	04/02/2015 0830
490-75765-19MSD	SW-3-SW-040115	Ground Water	04/01/2015 1452	04/02/2015 0830
490-75765-20	TB-01-040115	Water	04/01/2015 0900	04/02/2015 0830

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-75765-1	**SWMW-1-GW-HS-040115**					
cis-1,2-Dichloroethene		2.44		1.00	ug/L	8260B
Tetrachloroethene		27.7		1.00	ug/L	8260B
Trichloroethene		9.99		1.00	ug/L	8260B
490-75765-2	**SCMW-5-GW-HS-040115**					
Tetrachloroethene		0.906	J	1.00	ug/L	8260B
Trichloroethene		1.90		1.00	ug/L	8260B
PCB-1242		1.43		0.495	ug/L	8082A
490-75765-3	**SDMW-2-GW-HS-040115**					
Tetrachloroethene		61.5		1.00	ug/L	8260B
Trichloroethene		3.51		1.00	ug/L	8260B
490-75765-4	**SDMW-4-GW-HS-040115**					
cis-1,2-Dichloroethene		13.4		1.00	ug/L	8260B
1,1-Dichloroethene		5.96		1.00	ug/L	8260B
Tetrachloroethene		449		10.0	ug/L	8260B
trans-1,2-Dichloroethene		0.658	J	1.00	ug/L	8260B
Trichloroethene		764		10.0	ug/L	8260B
490-75765-5	**SDMW-4-GW-HS-040115-FD**					
cis-1,2-Dichloroethene		13.1		1.00	ug/L	8260B
1,1-Dichloroethene		6.14		1.00	ug/L	8260B
Tetrachloroethene		409		10.0	ug/L	8260B
trans-1,2-Dichloroethene		0.698	J	1.00	ug/L	8260B
Trichloroethene		778		10.0	ug/L	8260B
490-75765-6	**SDMW-7-GW-HS-040115**					
cis-1,2-Dichloroethene		7.16		1.00	ug/L	8260B
1,1-Dichloroethene		2.23		1.00	ug/L	8260B
Tetrachloroethene		133		1.00	ug/L	8260B
Trichloroethene		290		1.00	ug/L	8260B
PCB-1242		10.7		0.485	ug/L	8082A

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-75765-7	**SDMW-8-GW-HS-040115**					
cis-1,2-Dichloroethene		23.4		1.00	ug/L	8260B
1,1-Dichloroethene		6.80		1.00	ug/L	8260B
Tetrachloroethene		340		10.0	ug/L	8260B
trans-1,2-Dichloroethene		0.523	J	1.00	ug/L	8260B
Trichloroethene		586		10.0	ug/L	8260B
PCB-1248		2.10	p	0.467	ug/L	8082A
490-75765-8	**SGMW-9-GW-HS-040115**					
cis-1,2-Dichloroethene		0.676	J	1.00	ug/L	8260B
Tetrachloroethene		20.5		1.00	ug/L	8260B
Trichloroethene		17.6		1.00	ug/L	8260B
490-75765-9	**SGMW-7-GW-HS-040115**					
Tetrachloroethene		5.22		1.00	ug/L	8260B
Trichloroethene		3.73		1.00	ug/L	8260B
490-75765-10	**SHMW-2-GW-HS-040115**					
cis-1,2-Dichloroethene		13.6		1.00	ug/L	8260B
Tetrachloroethene		94.2		1.00	ug/L	8260B
Trichloroethene		185		1.00	ug/L	8260B
490-75765-11	**SHMW-3-GW-HS-040115**					
cis-1,2-Dichloroethene		89.5		1.00	ug/L	8260B
1,1-Dichloroethene		0.542	J	1.00	ug/L	8260B
Tetrachloroethene		933		50.0	ug/L	8260B
trans-1,2-Dichloroethene		0.973	J	1.00	ug/L	8260B
Trichloroethene		2060		50.0	ug/L	8260B
490-75765-12	**SPMW-15-GW-HS-040115**					
cis-1,2-Dichloroethene		41.5		1.00	ug/L	8260B
Tetrachloroethene		200		1.00	ug/L	8260B
Trichloroethene		226		1.00	ug/L	8260B
490-75765-13	**SPMW-17-GW-HS-040115**					
cis-1,2-Dichloroethene		2.27		1.00	ug/L	8260B
Tetrachloroethene		21.9		1.00	ug/L	8260B
Trichloroethene		34.1		1.00	ug/L	8260B

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-75765-14	**SPMW-17-GW-HS-040115-FD**					
cis-1,2-Dichloroethene		16.7		1.00	ug/L	8260B
Tetrachloroethene		121		1.00	ug/L	8260B
Trichloroethene		186		1.00	ug/L	8260B
490-75765-15	**SPMW-19-GW-HS-040115**					
cis-1,2-Dichloroethene		9.78		1.00	ug/L	8260B
Tetrachloroethene		79.6		1.00	ug/L	8260B
Trichloroethene		33.0		1.00	ug/L	8260B
490-75765-16	**SPMW-20-GW-HS-040115**					
Tetrachloroethene		3230		100	ug/L	8260B
Trichloroethene		14.5		1.00	ug/L	8260B
490-75765-17	**SW-2-SW-040115**					
Tetrachloroethene		0.951	J	1.00	ug/L	8260B
Trichloroethene		2.83		1.00	ug/L	8260B
490-75765-18	**SW-2-SW-040115-FD**					
Tetrachloroethene		0.981	J	1.00	ug/L	8260B
Trichloroethene		2.84		1.00	ug/L	8260B

METHOD SUMMARY

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Description	Lab Location	Method	Preparation Method
Matrix: Ground Water			
Volatile Organic Compounds (GC/MS)	TAL NSH	SW846 8260B	
Purge and Trap	TAL NSH		SW846 5030B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL NSH	SW846 8082A	
Liquid-Liquid Extraction (Separatory Funnel)	TAL NSH		SW846 3510C
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL NSH	SW846 8260B	
Purge and Trap	TAL NSH		SW846 5030B

Lab References:

TAL NSH = TestAmerica Nashville

Method References:

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

METHOD / ANALYST SUMMARY

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Method	Analyst	Analyst ID
SW846 8260B	Grimm, Juliana M	JMG
SW846 8082A	Harris, Matt	MGH

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SWMW-1-GW-HS-040115**

Lab Sample ID: 490-75765-1 Date Sampled: 04/01/2015 1000
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240119	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04091513.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/09/2015 1738			Final Weight/Volume:	10 mL
Prep Date:	04/09/2015 1738				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	2.44		0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	27.7		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	9.99		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SCMW-5-GW-HS-040115**

Lab Sample ID: 490-75765-2 Date Sampled: 04/01/2015 1420
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240119	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04091514.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/09/2015 1807			Final Weight/Volume:	10 mL
Prep Date:	04/09/2015 1807				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	0.906	J	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.90		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SDMW-2-GW-HS-040115**

Lab Sample ID: 490-75765-3 Date Sampled: 04/01/2015 1500
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240119	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04091515.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/09/2015 1835			Final Weight/Volume:	10 mL
Prep Date:	04/09/2015 1835				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	61.5		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	3.51		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SDMW-4-GW-HS-040115**

Lab Sample ID: 490-75765-4 Date Sampled: 04/01/2015 1445
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240119	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04091516.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/09/2015 1903			Final Weight/Volume:	10 mL
Prep Date:	04/09/2015 1903				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	13.4		0.210	1.00
1,1-Dichloroethene	5.96		0.250	1.00
Tetrachloroethene	536	E	0.140	1.00
trans-1,2-Dichloroethene	0.658	J	0.230	1.00
Trichloroethene	860	E	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
Dibromofluoromethane (Surr)	108		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SDMW-4-GW-HS-040115**

Lab Sample ID: 490-75765-4 Date Sampled: 04/01/2015 1445
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240285	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04101512.D
Dilution:	10			Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 1543	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 1543				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	10.0	U	2.10	10.0
1,1-Dichloroethene	10.0	U	2.50	10.0
Tetrachloroethene	449		1.40	10.0
trans-1,2-Dichloroethene	10.0	U	2.30	10.0
Trichloroethene	764		2.00	10.0
Vinyl chloride	10.0	U	1.80	10.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
Dibromofluoromethane (Surr)	111		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SDMW-4-GW-HS-040115-FD**

Lab Sample ID: 490-75765-5 Date Sampled: 04/01/2015 1450
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240119	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04091517.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/09/2015 1932			Final Weight/Volume:	10 mL
Prep Date:	04/09/2015 1932				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	13.1		0.210	1.00
1,1-Dichloroethene	6.14		0.250	1.00
Tetrachloroethene	523	E	0.140	1.00
trans-1,2-Dichloroethene	0.698	J	0.230	1.00
Trichloroethene	875	E	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SDMW-4-GW-HS-040115-FD**

Lab Sample ID: 490-75765-5 Date Sampled: 04/01/2015 1450
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240285	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04101513.D
Dilution:	10			Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 1612	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 1612				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	10.0	U	2.10	10.0
1,1-Dichloroethene	10.0	U	2.50	10.0
Tetrachloroethene	409		1.40	10.0
trans-1,2-Dichloroethene	10.0	U	2.30	10.0
Trichloroethene	778		2.00	10.0
Vinyl chloride	10.0	U	1.80	10.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
Dibromofluoromethane (Surr)	109		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SDMW-7-GW-HS-040115**

Lab Sample ID: 490-75765-6 Date Sampled: 04/01/2015 1535
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240241	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04091536.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 0431			Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 0431				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	7.16		0.210	1.00
1,1-Dichloroethene	2.23		0.250	1.00
Tetrachloroethene	133		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	290		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SDMW-8-GW-HS-040115**

Lab Sample ID: 490-75765-7 Date Sampled: 04/01/2015 1520
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240119	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04091523.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/09/2015 2222			Final Weight/Volume:	10 mL
Prep Date:	04/09/2015 2222				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	23.4		0.210	1.00
1,1-Dichloroethene	6.80		0.250	1.00
Tetrachloroethene	459	E	0.140	1.00
trans-1,2-Dichloroethene	0.523	J	0.230	1.00
Trichloroethene	827	E	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SDMW-8-GW-HS-040115**

Lab Sample ID: 490-75765-7 Date Sampled: 04/01/2015 1520
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240285	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04101514.D
Dilution:	10			Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 1640	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 1640				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	10.0	U	2.10	10.0
1,1-Dichloroethene	10.0	U	2.50	10.0
Tetrachloroethene	340		1.40	10.0
trans-1,2-Dichloroethene	10.0	U	2.30	10.0
Trichloroethene	586		2.00	10.0
Vinyl chloride	10.0	U	1.80	10.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SGMW-9-GW-HS-040115**

Lab Sample ID: 490-75765-8 Date Sampled: 04/01/2015 1140
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240119	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04091524.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/09/2015 2250			Final Weight/Volume:	10 mL
Prep Date:	04/09/2015 2250				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	0.676	J	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	20.5		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	17.6		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SGMW-7-GW-HS-040115**

Lab Sample ID: 490-75765-9 Date Sampled: 04/01/2015 1125
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240119	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04091525.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/09/2015 2319			Final Weight/Volume:	10 mL
Prep Date:	04/09/2015 2319				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	5.22		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	3.73		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SHMW-2-GW-HS-040115**

Lab Sample ID: 490-75765-10 Date Sampled: 04/01/2015 1105
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240241	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04091540.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 0624			Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 0624				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	13.6		0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	94.2		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	185		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SHMW-3-GW-HS-040115**

Lab Sample ID: 490-75765-11 Date Sampled: 04/01/2015 1055
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240241	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04091541.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 0653			Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 0653				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	89.5		0.210	1.00
1,1-Dichloroethene	0.542	J	0.250	1.00
Tetrachloroethene	1130	E	0.140	1.00
trans-1,2-Dichloroethene	0.973	J	0.230	1.00
Trichloroethene	2200	E	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Toluene-d8 (Surr)	93		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SHMW-3-GW-HS-040115**

Lab Sample ID: 490-75765-11 Date Sampled: 04/01/2015 1055
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240285	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04101515.D
Dilution:	50			Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 1708	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 1708				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	50.0	U	10.5	50.0
1,1-Dichloroethene	50.0	U	12.5	50.0
Tetrachloroethene	933		7.00	50.0
trans-1,2-Dichloroethene	50.0	U	11.5	50.0
Trichloroethene	2060		10.0	50.0
Vinyl chloride	50.0	U	9.00	50.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SPMW-15-GW-HS-040115**

Lab Sample ID: 490-75765-12 Date Sampled: 04/01/2015 1705
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240241	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04091542.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 0721			Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 0721				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	41.5		0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	200		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	226		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SPMW-17-GW-HS-040115**

Lab Sample ID: 490-75765-13 Date Sampled: 04/01/2015 1655
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240241	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04091543.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 0750			Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 0750				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	2.27		0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	21.9		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	34.1		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SPMW-17-GW-HS-040115-FD**

Lab Sample ID: 490-75765-14 Date Sampled: 04/01/2015 1700
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240241	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04091544.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 0818			Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 0818				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	16.7		0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	121		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	186		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SPMW-19-GW-HS-040115**

Lab Sample ID: 490-75765-15 Date Sampled: 04/01/2015 1640
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240241	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04091545.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 0846			Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 0846				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	9.78		0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	79.6		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	33.0		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SPMW-20-GW-HS-040115**

Lab Sample ID: 490-75765-16 Date Sampled: 04/01/2015 1040
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240285	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04101511.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 1515			Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 1515				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	3090	E	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	14.5		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SPMW-20-GW-HS-040115**

Lab Sample ID: 490-75765-16 Date Sampled: 04/01/2015 1040
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240285	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04101522.D
Dilution:	100			Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 2027	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 2027				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	100	U	21.0	100
1,1-Dichloroethene	100	U	25.0	100
Tetrachloroethene	3230		14.0	100
trans-1,2-Dichloroethene	100	U	23.0	100
Trichloroethene	100	U	20.0	100
Vinyl chloride	100	U	18.0	100

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SW-2-SW-040115**

Lab Sample ID: 490-75765-17 Date Sampled: 04/01/2015 1425
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240285	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04101510.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 1447			Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 1447				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	0.951	J	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	2.83		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
Dibromofluoromethane (Surr)	108		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SW-2-SW-040115-FD**

Lab Sample ID: 490-75765-18 Date Sampled: 04/01/2015 1425
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240285	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04101509.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 1418			Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 1418				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	0.981	J	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	2.84		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SW-3-SW-040115**

Lab Sample ID: 490-75765-19 Date Sampled: 04/01/2015 1452
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240285	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04101508.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 1350			Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 1350				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **TB-01-040115**

Lab Sample ID: 490-75765-20 Date Sampled: 04/01/2015 0900
Client Matrix: Water Date Received: 04/02/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240285	Instrument ID:	HP48
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	04101507.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 1321			Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 1321				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SCMW-5-GW-HS-040115**

Lab Sample ID: 490-75765-2 Date Sampled: 04/01/2015 1420
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-241134	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-239249	Initial Weight/Volume:	1010 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	04/14/2015 2310			Injection Volume:	1 uL
Prep Date:	04/06/2015 1334			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	1.43		0.0634	0.495
PCB-1248	0.495	U	0.0683	0.495
PCB-1254	0.495	U	0.00693	0.495

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	50		10 - 150
Tetrachloro-m-xylene	83		10 - 150

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SDMW-7-GW-HS-040115**

Lab Sample ID: 490-75765-6 Date Sampled: 04/01/2015 1535
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-241134	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-239249	Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	04/14/2015 2326			Injection Volume:	1 uL
Prep Date:	04/06/2015 1334			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	10.7		0.0621	0.485
PCB-1248	0.485	U	0.0670	0.485
PCB-1254	0.485	U	0.00680	0.485

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	58		10 - 150
Tetrachloro-m-xylene	75		10 - 150

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SDMW-8-GW-HS-040115**

Lab Sample ID: 490-75765-7 Date Sampled: 04/01/2015 1520
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-241134	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-239249	Initial Weight/Volume:	1070 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	04/14/2015 2342			Injection Volume:	1 uL
Prep Date:	04/06/2015 1334			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	0.467	U	0.0598	0.467
PCB-1248	2.10	p	0.0645	0.467
PCB-1254	0.467	U	0.00654	0.467

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	65	p	10 - 150
Tetrachloro-m-xylene	84	p	10 - 150

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Client Sample ID: **SHMW-2-GW-HS-040115**

Lab Sample ID: 490-75765-10 Date Sampled: 04/01/2015 1105
Client Matrix: Ground Water Date Received: 04/02/2015 0830

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-241134	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-239249	Initial Weight/Volume:	1070 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	04/14/2015 2357			Injection Volume:	1 uL
Prep Date:	04/06/2015 1334			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	0.467	U	0.0598	0.467
PCB-1248	0.467	U	0.0645	0.467
PCB-1254	0.467	U	0.00654	0.467

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	47		10 - 150
Tetrachloro-m-xylene	73		10 - 150

Client: CH2M Hill, Inc.

Job Number: 490-75765-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
490-75765-1	SWMW-1-GW-HS-040115	107	105	98	87
490-75765-2	SCMW-5-GW-HS-040115	106	106	99	87
490-75765-3	SDMW-2-GW-HS-040115	107	107	96	87
490-75765-4	SDMW-4-GW-HS-040115	108	108	96	88
490-75765-4 DL	SDMW-4-GW-HS-040115 DL	111	105	98	86
490-75765-5	SDMW-4-GW-HS-040115-FD	106	105	99	88
490-75765-5 DL	SDMW-4-GW-HS-040115-FD DL	109	104	98	87
490-75765-6	SDMW-7-GW-HS-040115	107	106	97	87
490-75765-7	SDMW-8-GW-HS-040115	105	103	101	87
490-75765-7 DL	SDMW-8-GW-HS-040115 DL	104	102	98	85
490-75765-8	SGMW-9-GW-HS-040115	107	106	97	85
490-75765-9	SGMW-7-GW-HS-040115	107	105	98	86
490-75765-10	SHMW-2-GW-HS-040115	103	104	94	89
490-75765-11	SHMW-3-GW-HS-040115	104	105	93	87
490-75765-11 DL	SHMW-3-GW-HS-040115 DL	106	104	99	86
490-75765-12	SPMW-15-GW-HS-040115	104	104	95	86
490-75765-13	SPMW-17-GW-HS-040115	105	103	96	88
490-75765-14	SPMW-17-GW-HS-040115-FD	96	106	95	86

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Client: CH2M Hill, Inc.

Job Number: 490-75765-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
490-75765-15	SPMW-19-GW-HS-040115	107	105	96	87
490-75765-16	SPMW-20-GW-HS-040115	105	103	98	87
490-75765-16 DL	SPMW-20-GW-HS-040115 DL	105	105	101	88
490-75765-17	SW-2-SW-040115	108	106	97	86
490-75765-18	SW-2-SW-040115-FD	105	106	97	85
490-75765-19	SW-3-SW-040115	107	104	96	87
490-75765-20	TB-01-040115	105	104	96	87
MB 490-240119/6		105	107	96	86
MB 490-240241/6		106	105	98	87
MB 490-240285/6		106	106	96	88
LCS 490-240119/3		104	102	92	89
LCS 490-240241/4		105	100	93	88
LCS 490-240285/4		103	100	92	88
LCSD 490-240119/4		105	102	93	89
490-75765-3 MS	SDMW-2-GW-HS-040115 MS	105	103	92	86
490-75765-6 MS	SDMW-7-GW-HS-040115 MS	105	100	93	87
490-75765-19 MS	SW-3-SW-040115 MS	104	100	96	86
490-75765-3 MSD	SDMW-2-GW-HS-040115 MSD	104	98	96	88
490-75765-6 MSD	SDMW-7-GW-HS-040115 MSD	105	99	93	87
490-75765-19 MSD	SW-3-SW-040115 MSD	104	96	97	90

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Client: CH2M Hill, Inc.

Job Number: 490-75765-1

Surrogate Recovery Report

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
490-75765-2	SCMW-5-GW-HS-040115		83		50
490-75765-6	SDMW-7-GW-HS-040115	75			58
490-75765-7	SDMW-8-GW-HS-040115	84p		65p	
490-75765-10	SHMW-2-GW-HS-040115		73		47
MB 490-239249/1-A		80			66
LCS 490-239249/2-A		78			64

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	10-150
DCB = DCB Decachlorobiphenyl (Surr)	10-150

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Method Blank - Batch: 490-240119

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-240119/6	Analysis Batch:	490-240119	Instrument ID:	HP48
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	04091506.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/09/2015 1402	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/09/2015 1402				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	86	70 - 130
Dibromofluoromethane (Surr)	105	70 - 130
1,2-Dichloroethane-d4 (Surr)	107	70 - 130
Toluene-d8 (Surr)	96	70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-240119

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-240119/3	Analysis Batch:	490-240119	Instrument ID:	HP48
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	04091503.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/09/2015 1237	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/09/2015 1237				10 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-240119/4	Analysis Batch:	490-240119	Instrument ID:	HP48
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	04091504.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/09/2015 1305	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/09/2015 1305				10 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
cis-1,2-Dichloroethene	109	107	76 - 125	2	17		
1,1-Dichloroethene	105	103	79 - 124	2	17		
Tetrachloroethene	112	111	80 - 126	0	16		
trans-1,2-Dichloroethene	100	97	79 - 126	2	16		
Trichloroethene	107	106	80 - 123	1	17		
Vinyl chloride	104	102	68 - 120	2	17		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	89	89	70 - 130
Dibromofluoromethane (Surr)	104	105	70 - 130
1,2-Dichloroethane-d4 (Surr)	102	102	70 - 130
Toluene-d8 (Surr)	92	93	70 - 130

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-240119

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-240119/3	Units:	ug/L	LCSD Lab Sample ID:	LCSD 490-240119/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/09/2015 1237			Analysis Date:	04/09/2015 1305
Prep Date:	04/09/2015 1237			Prep Date:	04/09/2015 1305
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
cis-1,2-Dichloroethene	50.0	50.0	54.29	53.47
1,1-Dichloroethene	50.0	50.0	52.67	51.62
Tetrachloroethene	50.0	50.0	55.85	55.60
trans-1,2-Dichloroethene	50.0	50.0	49.75	48.64
Trichloroethene	50.0	50.0	53.54	52.83
Vinyl chloride	50.0	50.0	52.20	50.95

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-240119

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-75765-3	Analysis Batch:	490-240119	Instrument ID:	HP48
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	04091526.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/09/2015 2347			Final Weight/Volume:	10 mL
Prep Date:	04/09/2015 2347				10 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-75765-3	Analysis Batch:	490-240119	Instrument ID:	HP48
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	04091527.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 0016			Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 0016				10 mL
Leach Date:	N/A				

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
cis-1,2-Dichloroethene	107	111	68 - 138	3	17		
1,1-Dichloroethene	110	115	70 - 142	4	17		
Tetrachloroethene	146	137	72 - 145	4	16	*	
trans-1,2-Dichloroethene	101	105	66 - 143	4	16		
Trichloroethene	110	115	73 - 144	4	17		
Vinyl chloride	111	116	56 - 129	4	17		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	86	88	70 - 130
Dibromofluoromethane (Surr)	105	104	70 - 130
1,2-Dichloroethane-d4 (Surr)	103	98	70 - 130
Toluene-d8 (Surr)	92	96	70 - 130

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-240119

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-75765-3	Units:	ug/L	MSD Lab Sample ID:	490-75765-3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/09/2015 2347			Analysis Date:	04/10/2015 0016
Prep Date:	04/09/2015 2347			Prep Date:	04/10/2015 0016
Leach Date:	N/A			Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS		MSD
Analyte	Result/Qual		Amount	Amount	Result/Qual		Result/Qual
cis-1,2-Dichloroethene	1.00	U	50.0	50.0	53.73		55.58
1,1-Dichloroethene	1.00	U	50.0	50.0	55.04		57.40
Tetrachloroethene	61.5		50.0	50.0	134.6	*	130.0
trans-1,2-Dichloroethene	1.00	U	50.0	50.0	50.31		52.30
Trichloroethene	3.51		50.0	50.0	58.28		60.80
Vinyl chloride	1.00	U	62.5	62.5	69.57		72.67

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Method Blank - Batch: 490-240241

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-240241/6	Analysis Batch:	490-240241	Instrument ID:	HP48
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	04091534.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 0334	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 0334				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	87	70 - 130
Dibromofluoromethane (Surr)	106	70 - 130
1,2-Dichloroethane-d4 (Surr)	105	70 - 130
Toluene-d8 (Surr)	98	70 - 130

Lab Control Sample - Batch: 490-240241

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 490-240241/4	Analysis Batch:	490-240241	Instrument ID:	HP48
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	04091532.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 0237	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 0237				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
cis-1,2-Dichloroethene	50.0	53.11	106	76 - 125	
1,1-Dichloroethene	50.0	51.65	103	79 - 124	
Tetrachloroethene	50.0	55.52	111	80 - 126	
trans-1,2-Dichloroethene	50.0	52.77	106	79 - 126	
Trichloroethene	50.0	53.84	108	80 - 123	
Vinyl chloride	62.5	63.58	102	68 - 120	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	88	70 - 130
Dibromofluoromethane (Surr)	105	70 - 130
1,2-Dichloroethane-d4 (Surr)	100	70 - 130
Toluene-d8 (Surr)	93	70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-240241

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-75765-6	Analysis Batch:	490-240241	Instrument ID:	HP48
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	04091549.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 0915			Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 0915				10 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-75765-6	Analysis Batch:	490-240241	Instrument ID:	HP48
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	04091550.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 0943			Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 0943				10 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
cis-1,2-Dichloroethene	110	115	68 - 138	4	17		
1,1-Dichloroethene	116	118	70 - 142	1	17		
Tetrachloroethene	113	115	72 - 145	0	16		
trans-1,2-Dichloroethene	107	109	66 - 143	2	16		
Trichloroethene	130	106	73 - 144	3	17		
Vinyl chloride	118	119	56 - 129	0	17		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	87	87	70 - 130
Dibromofluoromethane (Surr)	105	105	70 - 130
1,2-Dichloroethane-d4 (Surr)	100	99	70 - 130
Toluene-d8 (Surr)	93	93	70 - 130

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-240241

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-75765-6	Units:	ug/L	MSD Lab Sample ID:	490-75765-6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/10/2015 0915			Analysis Date:	04/10/2015 0943
Prep Date:	04/10/2015 0915			Prep Date:	04/10/2015 0943
Leach Date:	N/A			Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS	MSD
Analyte	Result/Qual		Amount	Amount	Result/Qual	Result/Qual
cis-1,2-Dichloroethene	7.16		50.0	50.0	62.06	64.62
1,1-Dichloroethene	2.23		50.0	50.0	60.34	61.12
Tetrachloroethene	133		50.0	50.0	190.0	190.9
trans-1,2-Dichloroethene	1.00	U	50.0	50.0	53.42	54.73
Trichloroethene	290		50.0	50.0	354.6	342.8
Vinyl chloride	1.00	U	62.5	62.5	74.02	74.18

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Method Blank - Batch: 490-240285

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-240285/6	Analysis Batch:	490-240285	Instrument ID:	HP48
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	04101506.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 1253	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 1253				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	88	70 - 130
Dibromofluoromethane (Surr)	106	70 - 130
1,2-Dichloroethane-d4 (Surr)	106	70 - 130
Toluene-d8 (Surr)	96	70 - 130

Lab Control Sample - Batch: 490-240285

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 490-240285/4	Analysis Batch:	490-240285	Instrument ID:	HP48
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	04101504.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 1156	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 1156				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
cis-1,2-Dichloroethene	50.0	53.77	108	76 - 125	
1,1-Dichloroethene	50.0	51.79	104	79 - 124	
Tetrachloroethene	50.0	56.92	114	80 - 126	
trans-1,2-Dichloroethene	50.0	54.00	108	79 - 126	
Trichloroethene	50.0	53.92	108	80 - 123	
Vinyl chloride	62.5	64.79	104	68 - 120	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	88	70 - 130
Dibromofluoromethane (Surr)	103	70 - 130
1,2-Dichloroethane-d4 (Surr)	100	70 - 130
Toluene-d8 (Surr)	92	70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-240285

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-75765-19	Analysis Batch:	490-240285	Instrument ID:	HP48
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	04101523.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 2055			Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 2055				10 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-75765-19	Analysis Batch:	490-240285	Instrument ID:	HP48
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	04101524.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/10/2015 2124			Final Weight/Volume:	10 mL
Prep Date:	04/10/2015 2124				10 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
cis-1,2-Dichloroethene	108	113	68 - 138	5	17		
1,1-Dichloroethene	109	118	70 - 142	7	17		
Tetrachloroethene	116	126	72 - 145	8	16		
trans-1,2-Dichloroethene	102	118	66 - 143	14	16		
Trichloroethene	110	118	73 - 144	6	17		
Vinyl chloride	106	114	56 - 129	7	17		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	86	90	70 - 130
Dibromofluoromethane (Surr)	104	104	70 - 130
1,2-Dichloroethane-d4 (Surr)	100	96	70 - 130
Toluene-d8 (Surr)	96	97	70 - 130

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-240285

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-75765-19	Units:	ug/L	MSD Lab Sample ID:	490-75765-19
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/10/2015 2055			Analysis Date:	04/10/2015 2124
Prep Date:	04/10/2015 2055			Prep Date:	04/10/2015 2124
Leach Date:	N/A			Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS	MSD
Analyte	Result/Qual		Amount	Amount	Result/Qual	Result/Qual
cis-1,2-Dichloroethene	1.00	U	50.0	50.0	54.06	56.71
1,1-Dichloroethene	1.00	U	50.0	50.0	54.71	58.95
Tetrachloroethene	1.00	U	50.0	50.0	57.94	63.02
trans-1,2-Dichloroethene	1.00	U	50.0	50.0	51.16	58.88
Trichloroethene	1.00	U	50.0	50.0	55.15	58.84
Vinyl chloride	1.00	U	62.5	62.5	66.22	71.05

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Method Blank - Batch: 490-239249

Method: 8082A
Preparation: 3510C

Lab Sample ID:	MB 490-239249/1-A	Analysis Batch:	490-241134	Instrument ID:	HP37
Client Matrix:	Water	Prep Batch:	490-239249	Lab File ID:	041415hp37.042dat.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	04/14/2015 2239	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/06/2015 1334			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
PCB-1242	0.500	U	0.0640	0.500
PCB-1248	0.500	U	0.0690	0.500
PCB-1254	0.500	U	0.00700	0.500

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	66	10 - 150
Tetrachloro-m-xylene	80	10 - 150

Lab Control Sample - Batch: 490-239249

Method: 8082A
Preparation: 3510C

Lab Sample ID:	LCS 490-239249/2-A	Analysis Batch:	490-241134	Instrument ID:	HP37
Client Matrix:	Water	Prep Batch:	490-239249	Lab File ID:	041415hp37.043dat.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	04/14/2015 2255	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/06/2015 1334			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	5.00	4.367	87	23 - 139	
PCB-1260	5.00	3.699	74	36 - 144	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	64	10 - 150
Tetrachloro-m-xylene	78	10 - 150

DATA REPORTING QUALIFIERS

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
	J	Indicates an estimated value.
	*	MS or MSD is outside acceptance limits.
GC Semi VOA		
	U	Analyzed for but not detected.
	p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Client: CH2M Hill, Inc. Job Number: 490-75765-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-240119					
LCS 490-240119/3	Lab Control Sample	T	Water	8260B	
LCSD 490-240119/4	Lab Control Sample Duplicate	T	Water	8260B	
MB 490-240119/6	Method Blank	T	Water	8260B	
490-75765-1	SWMW-1-GW-HS-040115	T	Water	8260B	
490-75765-2	SCMW-5-GW-HS-040115	T	Water	8260B	
490-75765-3	SDMW-2-GW-HS-040115	T	Water	8260B	
490-75765-3MS	Matrix Spike	T	Water	8260B	
490-75765-3MSD	Matrix Spike Duplicate	T	Water	8260B	
490-75765-4	SDMW-4-GW-HS-040115	T	Water	8260B	
490-75765-5	SDMW-4-GW-HS-040115-FD	T	Water	8260B	
490-75765-7	SDMW-8-GW-HS-040115	T	Water	8260B	
490-75765-8	SGMW-9-GW-HS-040115	T	Water	8260B	
490-75765-9	SGMW-7-GW-HS-040115	T	Water	8260B	
Analysis Batch:490-240241					
LCS 490-240241/4	Lab Control Sample	T	Water	8260B	
MB 490-240241/6	Method Blank	T	Water	8260B	
490-75765-6	SDMW-7-GW-HS-040115	T	Water	8260B	
490-75765-6MS	Matrix Spike	T	Water	8260B	
490-75765-6MSD	Matrix Spike Duplicate	T	Water	8260B	
490-75765-10	SHMW-2-GW-HS-040115	T	Water	8260B	
490-75765-11	SHMW-3-GW-HS-040115	T	Water	8260B	
490-75765-12	SPMW-15-GW-HS-040115	T	Water	8260B	
490-75765-13	SPMW-17-GW-HS-040115	T	Water	8260B	
490-75765-14	SPMW-17-GW-HS-040115-FD	T	Water	8260B	
490-75765-15	SPMW-19-GW-HS-040115	T	Water	8260B	
Analysis Batch:490-240285					
LCS 490-240285/4	Lab Control Sample	T	Water	8260B	
MB 490-240285/6	Method Blank	T	Water	8260B	
490-75765-4DL	SDMW-4-GW-HS-040115	T	Water	8260B	
490-75765-5DL	SDMW-4-GW-HS-040115-FD	T	Water	8260B	
490-75765-7DL	SDMW-8-GW-HS-040115	T	Water	8260B	
490-75765-11DL	SHMW-3-GW-HS-040115	T	Water	8260B	
490-75765-16	SPMW-20-GW-HS-040115	T	Water	8260B	
490-75765-16DL	SPMW-20-GW-HS-040115	T	Water	8260B	
490-75765-17	SW-2-SW-040115	T	Water	8260B	
490-75765-18	SW-2-SW-040115-FD	T	Water	8260B	
490-75765-19	SW-3-SW-040115	T	Water	8260B	
490-75765-19MS	Matrix Spike	T	Water	8260B	
490-75765-19MSD	Matrix Spike Duplicate	T	Water	8260B	
490-75765-20	TB-01-040115	T	Water	8260B	

Client: CH2M Hill, Inc. Job Number: 490-75765-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Report Basis					
T = Total					
GC Semi VOA					
Prep Batch: 490-239249					
LCS 490-239249/2-A	Lab Control Sample	T	Water	3510C	
MB 490-239249/1-A	Method Blank	T	Water	3510C	
490-75765-2	SCMW-5-GW-HS-040115	T	Water	3510C	
490-75765-6	SDMW-7-GW-HS-040115	T	Water	3510C	
490-75765-7	SDMW-8-GW-HS-040115	T	Water	3510C	
490-75765-10	SHMW-2-GW-HS-040115	T	Water	3510C	
Analysis Batch:490-241134					
LCS 490-239249/2-A	Lab Control Sample	T	Water	8082A	490-239249
MB 490-239249/1-A	Method Blank	T	Water	8082A	490-239249
490-75765-2	SCMW-5-GW-HS-040115	T	Water	8082A	490-239249
490-75765-6	SDMW-7-GW-HS-040115	T	Water	8082A	490-239249
490-75765-7	SDMW-8-GW-HS-040115	T	Water	8082A	490-239249
490-75765-10	SHMW-2-GW-HS-040115	T	Water	8082A	490-239249

Report Basis
T = Total

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Laboratory Chronicle

Lab ID: 490-75765-1 **Client ID: SWMW-1-GW-HS-040115**

Sample Date/Time: 04/01/2015 10:00 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-1		490-240119		04/09/2015 17:38	1	TAL NSH	JMG
A:8260B	490-75765-A-1		490-240119		04/09/2015 17:38	1	TAL NSH	JMG

Lab ID: 490-75765-2 **Client ID: SCMW-5-GW-HS-040115**

Sample Date/Time: 04/01/2015 14:20 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-2		490-240119		04/09/2015 18:07	1	TAL NSH	JMG
A:8260B	490-75765-A-2		490-240119		04/09/2015 18:07	1	TAL NSH	JMG
P:3510C	490-75765-D-2-A		490-241134	490-239249	04/06/2015 13:34	1	TAL NSH	ET
A:8082A	490-75765-D-2-A		490-241134	490-239249	04/14/2015 23:10	1	TAL NSH	MGH

Lab ID: 490-75765-3 **Client ID: SDMW-2-GW-HS-040115**

Sample Date/Time: 04/01/2015 15:00 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-3		490-240119		04/09/2015 18:35	1	TAL NSH	JMG
A:8260B	490-75765-A-3		490-240119		04/09/2015 18:35	1	TAL NSH	JMG

Lab ID: 490-75765-3 **Client ID: SDMW-2-GW-HS-040115**

Sample Date/Time: 04/01/2015 15:00 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-3 MS		490-240119		04/09/2015 23:47	1	TAL NSH	JMG
A:8260B	490-75765-A-3 MS		490-240119		04/09/2015 23:47	1	TAL NSH	JMG

Lab ID: 490-75765-3 **Client ID: SDMW-2-GW-HS-040115**

Sample Date/Time: 04/01/2015 15:00 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-3 MSD		490-240119		04/10/2015 00:16	1	TAL NSH	JMG
A:8260B	490-75765-A-3 MSD		490-240119		04/10/2015 00:16	1	TAL NSH	JMG

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Laboratory Chronicle

Lab ID: 490-75765-4 **Client ID: SDMW-4-GW-HS-040115**

Sample Date/Time: 04/01/2015 14:45 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-4		490-240119		04/09/2015 19:03	1	TAL NSH	JMG
A:8260B	490-75765-A-4		490-240119		04/09/2015 19:03	1	TAL NSH	JMG
P:5030B	490-75765-B-4	DL	490-240285		04/10/2015 15:43	10	TAL NSH	JMG
A:8260B	490-75765-B-4	DL	490-240285		04/10/2015 15:43	10	TAL NSH	JMG

Lab ID: 490-75765-5 **Client ID: SDMW-4-GW-HS-040115-FD**

Sample Date/Time: 04/01/2015 14:50 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-5		490-240119		04/09/2015 19:32	1	TAL NSH	JMG
A:8260B	490-75765-A-5		490-240119		04/09/2015 19:32	1	TAL NSH	JMG
P:5030B	490-75765-B-5	DL	490-240285		04/10/2015 16:12	10	TAL NSH	JMG
A:8260B	490-75765-B-5	DL	490-240285		04/10/2015 16:12	10	TAL NSH	JMG

Lab ID: 490-75765-6 **Client ID: SDMW-7-GW-HS-040115**

Sample Date/Time: 04/01/2015 15:35 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-6		490-240241		04/10/2015 04:31	1	TAL NSH	JMG
A:8260B	490-75765-A-6		490-240241		04/10/2015 04:31	1	TAL NSH	JMG
P:3510C	490-75765-E-6-A		490-241134	490-239249	04/06/2015 13:34	1	TAL NSH	ET
A:8082A	490-75765-E-6-A		490-241134	490-239249	04/14/2015 23:26	1	TAL NSH	MGH

Lab ID: 490-75765-6 **Client ID: SDMW-7-GW-HS-040115**

Sample Date/Time: 04/01/2015 15:35 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-B-6 MS		490-240241		04/10/2015 09:15	1	TAL NSH	JMG
A:8260B	490-75765-B-6 MS		490-240241		04/10/2015 09:15	1	TAL NSH	JMG

Lab ID: 490-75765-6 **Client ID: SDMW-7-GW-HS-040115**

Sample Date/Time: 04/01/2015 15:35 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-6 MSD		490-240241		04/10/2015 09:43	1	TAL NSH	JMG
A:8260B	490-75765-A-6 MSD		490-240241		04/10/2015 09:43	1	TAL NSH	JMG

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Laboratory Chronicle

Lab ID: 490-75765-7 **Client ID: SDMW-8-GW-HS-040115**

Sample Date/Time: 04/01/2015 15:20 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-7		490-240119		04/09/2015 22:22	1	TAL NSH	JMG
A:8260B	490-75765-A-7		490-240119		04/09/2015 22:22	1	TAL NSH	JMG
P:5030B	490-75765-B-7	DL	490-240285		04/10/2015 16:40	10	TAL NSH	JMG
A:8260B	490-75765-B-7	DL	490-240285		04/10/2015 16:40	10	TAL NSH	JMG
P:3510C	490-75765-D-7-A		490-241134	490-239249	04/06/2015 13:34	1	TAL NSH	ET
A:8082A	490-75765-D-7-A		490-241134	490-239249	04/14/2015 23:42	1	TAL NSH	MGH

Lab ID: 490-75765-8 **Client ID: SGMW-9-GW-HS-040115**

Sample Date/Time: 04/01/2015 11:40 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-8		490-240119		04/09/2015 22:50	1	TAL NSH	JMG
A:8260B	490-75765-A-8		490-240119		04/09/2015 22:50	1	TAL NSH	JMG

Lab ID: 490-75765-9 **Client ID: SGMW-7-GW-HS-040115**

Sample Date/Time: 04/01/2015 11:25 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-9		490-240119		04/09/2015 23:19	1	TAL NSH	JMG
A:8260B	490-75765-A-9		490-240119		04/09/2015 23:19	1	TAL NSH	JMG

Lab ID: 490-75765-10 **Client ID: SHMW-2-GW-HS-040115**

Sample Date/Time: 04/01/2015 11:05 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-10		490-240241		04/10/2015 06:24	1	TAL NSH	JMG
A:8260B	490-75765-A-10		490-240241		04/10/2015 06:24	1	TAL NSH	JMG
P:3510C	490-75765-D-10-A		490-241134	490-239249	04/06/2015 13:34	1	TAL NSH	ET
A:8082A	490-75765-D-10-A		490-241134	490-239249	04/14/2015 23:57	1	TAL NSH	MGH

Lab ID: 490-75765-11 **Client ID: SHMW-3-GW-HS-040115**

Sample Date/Time: 04/01/2015 10:55 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-11		490-240241		04/10/2015 06:53	1	TAL NSH	JMG
A:8260B	490-75765-A-11		490-240241		04/10/2015 06:53	1	TAL NSH	JMG
P:5030B	490-75765-B-11	DL	490-240285		04/10/2015 17:08	50	TAL NSH	JMG
A:8260B	490-75765-B-11	DL	490-240285		04/10/2015 17:08	50	TAL NSH	JMG

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Laboratory Chronicle

Lab ID: 490-75765-12 **Client ID: SPMW-15-GW-HS-040115**

Sample Date/Time: 04/01/2015 17:05 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-12		490-240241		04/10/2015 07:21	1	TAL NSH	JMG
A:8260B	490-75765-A-12		490-240241		04/10/2015 07:21	1	TAL NSH	JMG

Lab ID: 490-75765-13 **Client ID: SPMW-17-GW-HS-040115**

Sample Date/Time: 04/01/2015 16:55 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-13		490-240241		04/10/2015 07:50	1	TAL NSH	JMG
A:8260B	490-75765-A-13		490-240241		04/10/2015 07:50	1	TAL NSH	JMG

Lab ID: 490-75765-14 **Client ID: SPMW-17-GW-HS-040115-FD**

Sample Date/Time: 04/01/2015 17:00 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-14		490-240241		04/10/2015 08:18	1	TAL NSH	JMG
A:8260B	490-75765-A-14		490-240241		04/10/2015 08:18	1	TAL NSH	JMG

Lab ID: 490-75765-15 **Client ID: SPMW-19-GW-HS-040115**

Sample Date/Time: 04/01/2015 16:40 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-15		490-240241		04/10/2015 08:46	1	TAL NSH	JMG
A:8260B	490-75765-A-15		490-240241		04/10/2015 08:46	1	TAL NSH	JMG

Lab ID: 490-75765-16 **Client ID: SPMW-20-GW-HS-040115**

Sample Date/Time: 04/01/2015 10:40 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-16		490-240285		04/10/2015 15:15	1	TAL NSH	JMG
A:8260B	490-75765-A-16		490-240285		04/10/2015 15:15	1	TAL NSH	JMG
P:5030B	490-75765-A-16	DL	490-240285		04/10/2015 20:27	100	TAL NSH	JMG
A:8260B	490-75765-A-16	DL	490-240285		04/10/2015 20:27	100	TAL NSH	JMG

Lab ID: 490-75765-17 **Client ID: SW-2-SW-040115**

Sample Date/Time: 04/01/2015 14:25 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-17		490-240285		04/10/2015 14:47	1	TAL NSH	JMG
A:8260B	490-75765-A-17		490-240285		04/10/2015 14:47	1	TAL NSH	JMG

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Laboratory Chronicle

Lab ID: 490-75765-18 **Client ID:** SW-2-SW-040115-FD

Sample Date/Time: 04/01/2015 14:25 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-18		490-240285		04/10/2015 14:18	1	TAL NSH	JMG
A:8260B	490-75765-A-18		490-240285		04/10/2015 14:18	1	TAL NSH	JMG

Lab ID: 490-75765-19 **Client ID:** SW-3-SW-040115

Sample Date/Time: 04/01/2015 14:52 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-19		490-240285		04/10/2015 13:50	1	TAL NSH	JMG
A:8260B	490-75765-A-19		490-240285		04/10/2015 13:50	1	TAL NSH	JMG

Lab ID: 490-75765-19 **Client ID:** SW-3-SW-040115

Sample Date/Time: 04/01/2015 14:52 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-19 MS		490-240285		04/10/2015 20:55	1	TAL NSH	JMG
A:8260B	490-75765-A-19 MS		490-240285		04/10/2015 20:55	1	TAL NSH	JMG

Lab ID: 490-75765-19 **Client ID:** SW-3-SW-040115

Sample Date/Time: 04/01/2015 14:52 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-19 MSD		490-240285		04/10/2015 21:24	1	TAL NSH	JMG
A:8260B	490-75765-A-19 MSD		490-240285		04/10/2015 21:24	1	TAL NSH	JMG

Lab ID: 490-75765-20 **Client ID:** TB-01-040115

Sample Date/Time: 04/01/2015 09:00 Received Date/Time: 04/02/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75765-A-20		490-240285		04/10/2015 13:21	1	TAL NSH	JMG
A:8260B	490-75765-A-20		490-240285		04/10/2015 13:21	1	TAL NSH	JMG

Client: CH2M Hill, Inc. Job Number: 490-75765-1

Laboratory Chronicle

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 490-240119/6		490-240119		04/09/2015 14:02	1	TAL NSH	JMG
A:8260B	MB 490-240119/6		490-240119		04/09/2015 14:02	1	TAL NSH	JMG
P:5030B	MB 490-240241/6		490-240241		04/10/2015 03:34	1	TAL NSH	JMG
A:8260B	MB 490-240241/6		490-240241		04/10/2015 03:34	1	TAL NSH	JMG
P:5030B	MB 490-240285/6		490-240285		04/10/2015 12:53	1	TAL NSH	JMG
A:8260B	MB 490-240285/6		490-240285		04/10/2015 12:53	1	TAL NSH	JMG
P:3510C	MB 490-239249/1-A		490-241134	490-239249	04/06/2015 13:34	1	TAL NSH	ET
A:8082A	MB 490-239249/1-A		490-241134	490-239249	04/14/2015 22:39	1	TAL NSH	MGH

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 490-240119/3		490-240119		04/09/2015 12:37	1	TAL NSH	JMG
A:8260B	LCS 490-240119/3		490-240119		04/09/2015 12:37	1	TAL NSH	JMG
P:5030B	LCS 490-240241/4		490-240241		04/10/2015 02:37	1	TAL NSH	JMG
A:8260B	LCS 490-240241/4		490-240241		04/10/2015 02:37	1	TAL NSH	JMG
P:5030B	LCS 490-240285/4		490-240285		04/10/2015 11:56	1	TAL NSH	JMG
A:8260B	LCS 490-240285/4		490-240285		04/10/2015 11:56	1	TAL NSH	JMG
P:3510C	LCS 490-239249/2-A		490-241134	490-239249	04/06/2015 13:34	1	TAL NSH	ET
A:8082A	LCS 490-239249/2-A		490-241134	490-239249	04/14/2015 22:55	1	TAL NSH	MGH

Lab ID: LCSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 490-240119/4		490-240119		04/09/2015 13:05	1	TAL NSH	JMG
A:8260B	LCSD 490-240119/4		490-240119		04/09/2015 13:05	1	TAL NSH	JMG

Lab References:
TAL NSH = TestAmerica Nashville

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
OP_H2SO4_00013	07/11/18		Macron, Lot 0000053267		(Purchased Reagent)		Sulfuric acid	51 % by Wt
OP_Hexane_00057	08/13/18		Macron, Lot 0000078259		(Purchased Reagent)		Hexane	0 mg/mL
OP_MeCl2_00044	03/22/16		J.T. Baker, Lot 0000100523		(Purchased Reagent)		Methylene Chloride	0 %
OP_NaSO4_00035	10/03/18		J.T. Baker, Lot 0000088217		(Purchased Reagent)		Stock Chemical	0 %
OP_PCB_SPK_00027	09/14/15	03/14/15	ACETONE, Lot OP_ACETONE_CY_00016	200 mL	PCB_1660 _VER_00009	1 mL	PCB-1016	5 ug/mL
							PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
.PCB_1660 _VER_00009	06/30/19		restek, Lot A094336		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
OP_PPCB_SUR_00032	09/30/15	03/30/15	ACETONE, Lot OP_acetone_CY_00010	1000 mL	PEST_SUR_00024	2.5 mL	DCB Decachlorobiphenyl (Surr)	0.5 ug/mL
							Tetrachloro-m-xylene	0.5 ug/mL
.PEST_SUR_00024	11/30/20		Restek, Lot A0105135		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
PCB_1248_IMD_00013	09/23/15	03/23/15	Hexane, Lot OP_HEXANE_00061	10 mL	PCB_1248_00008	100 uL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
.PCB_1248_00008	04/30/19		restek, Lot A092864		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
PCB_1248_IMD_00013	09/23/15	03/23/15	Hexane, Lot OP_HEXANE_00061	10 mL	PCB_1248_00008	100 uL	PCB-1248	10 ug/mL
.PCB_1248_00008	04/30/19		restek, Lot A092864		(Purchased Reagent)		PCB-1248	1000 ug/mL
PCB_1660_IMD_00035	09/23/15	03/23/15	Hexane, Lot OP_HEXANE_00061	10 mL	PCB_1660_00003	100 uL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
					PEST_SUR_00022	50 uL	DCB Decachlorobiphenyl (Surr)	1 ug/mL
							Tetrachloro-m-xylene	1 ug/mL
.PCB_1660_00003	06/30/19		restek, Lot A094177		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.PEST_SUR_00022	11/30/20		Restek, Lot A0105135		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
PCB_1660_IMD_00036	09/23/15	03/23/15	Hexane, Lot OP_HEXANE_00061	10 mL	PCB_1660_00006	100 uL	PCB-1016	10 ug/mL
							PCB-1260	10 ug/mL
					PEST_SUR_00022	50 uL	DCB Decachlorobiphenyl (Surr)	1 ug/mL
							Tetrachloro-m-xylene	1 ug/mL
.PCB_1660_00006	06/30/19		restek, Lot A094177		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
.PEST_SUR_00022	11/30/20		Restek, Lot A0105135		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
PCB_1660V_IMD_00011	07/09/15	01/09/15	Hexane, Lot OP_HEXANE_00059	10 mL	PCB_1660 _VER_00009	100 uL	PCB-1016	10 ug/mL
							PCB-1260	10 ug/mL
.PCB_1660 _VER_00009	06/30/19		restek, Lot A094336		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
PCB_2154_IMD_00002	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1221_00004	100 uL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					PCB_1254_00007	100 uL	PCB-1254 Peak 1	10 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
.PCB_1221_00004	12/31/18		restek, Lot A090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
.PCB_1254_00007	02/28/19		restek, Lot A092005		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
PCB_2154_IMD_00002	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1221_00004	100 uL	PCB-1221	10 ug/mL
					PCB_1254_00007	100 uL	PCB-1254	10 ug/mL
.PCB_1221_00004	12/31/18		restek, Lot A090667		(Purchased Reagent)		PCB-1221	1000 ug/mL
.PCB_1254_00007	02/28/19		restek, Lot A092005		(Purchased Reagent)		PCB-1254	1000 ug/mL
PCB_3262_IMD_00004	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1232_00004	100 uL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
					PCB_1262_00005	100 uL	PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
.PCB_1232_00004	11/30/18		restek, Lot A090290		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
.PCB_1262_00005	06/30/19		restek, Lot A094073		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
PCB_3262_IMD_00004	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1232_00004	100 uL	PCB-1232	10 ug/mL
.PCB_1232_00004	11/30/18		restek, Lot A090290		(Purchased Reagent)		PCB-1232	1000 ug/mL
PCB_4268_IMD_00002	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1242_00009	100 uL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
					PCB_1268_00007	100 uL	PCB-1268 Peak 1	10 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1268 Peak 2	10 ug/mL
							PCB-1268 Peak 3	10 ug/mL
							PCB-1268 Peak 4	10 ug/mL
							PCB-1268 Peak 5	10 ug/mL
.PCB_1242_00009	11/30/18		restek, Lot A090182		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
.PCB_1268_00007	01/31/19		restek, Lot A091582		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
PCB_4268_IMD_00002	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1242_00009	100 uL	PCB-1242	10 ug/mL
.PCB_1242_00009	11/30/18		restek, Lot A090182		(Purchased Reagent)		PCB-1242	1000 ug/mL
PCB_Cu_GRAN_00004	06/10/19		Resprep, Lot 212201-AW		(Purchased Reagent)		Cu	1000000 ug/mL
PCB_IS_Int_00006	09/24/15	03/24/15	Hexane, Lot OP_Hexane_00061	5 mL	PCB_1-Bromo_00001	0.5 mL	1-Bromo-2-nitrobenzene	100 ug/mL
.PCB_1-Bromo_00001	03/31/18		Restek, Lot A0107658		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
V1_gases_I_00068	09/12/14	09/05/14	Methanol, Lot 0000062345	25 mL	V1_Gases_00005	1.25 mL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V1_Gases_00005	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000000 ug/L
							Butadiene	2000000 ug/L
							Chloroethane	2000000 ug/L
							Chloromethane	2000000 ug/L
							Dichlorodifluoromethane	2000000 ug/L
							Dichlorofluoromethane	2000000 ug/L
							Trichlorofluoromethane	2000000 ug/L
							Vinyl chloride	2000000 ug/L
V1_gases_I_00097	04/16/15	04/09/15	Methanol, Lot 0000085233	25 mL	V1_Gases_00009	1 mL	Vinyl chloride	100 ug/mL
.V1_Gases_00009	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Vinyl chloride	2500000 ug/L
V1_gases_I_00098	04/16/15	04/09/15	Methanol, Lot 0000085233	25 mL	V1_Gases_00009	1.25 mL	Vinyl chloride	125 ug/mL
.V1_Gases_00009	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Vinyl chloride	2500000 ug/L
V1_Mega_I_00025	09/28/14	08/28/14	Methanol, Lot 0000062345	50 mL	V1_2-CEVE_00004	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					V1_AcroleinHi_00003	0.625 mL	Acrolein	250 ug/mL
					V1_Additions_00009	2.5 mL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1-Chlorohexane	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Benzyl chloride	100 ug/mL
							Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Methacrylonitrile	1000 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butanol	2500 ug/mL
							n-Butyl acetate	100 ug/mL
					V1_cyclohxnon_00007	2.5 mL	Cyclohexanone	1000 ug/mL
					V1_Keytones_00006	2.5 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					V1_Megamix_00011	2.5 mL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	1000 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					V1_Polar addi_00003	2.5 mL	Acetonitrile	1000 ug/mL
							Ethanol	5000 ug/mL
							Isopropyl ether	100 ug/mL
							Propionitrile	1000 ug/mL
							t-Amyl alcohol	1000 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
					V1_vnl acetat_00007	2.5 mL	Vinyl acetate	200 ug/mL
.V1_2-CEVE_00004	02/28/16		Restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000000 ug/L
.V1_AcroleinHi_00003	10/31/14		Restek, Lot A0104246		(Purchased Reagent)		Acrolein	20000000 ug/L
.V1_Additions_00009	06/30/15		Restek, Lot A0100262		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000000 ug/L
							1,3,5-Trichlorobenzene	2000000 ug/L
							1-Chlorohexane	2000000 ug/L
							2-Chloro-1,3-butadiene	2000000 ug/L
							2-Nitropropane	4000000 ug/L
							Benzyl chloride	2000000 ug/L
							Ethyl acetate	4000000 ug/L
							Ethyl acrylate	2000000 ug/L
							Isopropyl alcohol	20000000 ug/L
							Methacrylonitrile	20000000 ug/L
							Methyl methacrylate	4000000 ug/L
							n-Butanol	50000000 ug/L
							n-Butyl acetate	2000000 ug/L
.V1_cyclohxnon_00007	02/28/16		Restek, Lot A093361		(Purchased Reagent)		Cyclohexanone	20000000 ug/L
.V1_Keytones_00006	02/28/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000000 ug/L
							2-Hexanone	10000000 ug/L
							4-Methyl-2-pentanone (MIBK)	10000000 ug/L
							Acetone	10000000 ug/L
.V1_Megamix_00011	02/28/16		Restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000000 ug/L
							1,1,1-Trichloroethane	2000000 ug/L
							1,1,2,2-Tetrachloroethane	2000000 ug/L
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000000 ug/L
							1,1,2-Trichloroethane	2000000 ug/L
							1,1-Dichloroethane	2000000 ug/L
							1,1-Dichloroethene	2000000 ug/L
							1,1-Dichloropropene	2000000 ug/L
							1,2,3-Trichlorobenzene	2000000 ug/L
							1,2,3-Trichloropropane	2000000 ug/L
							1,2,4-Trichlorobenzene	2000000 ug/L
							1,2,4-Trimethylbenzene	2000000 ug/L
							1,2-Dibromo-3-Chloropropane	2000000 ug/L
							1,2-Dichlorobenzene	2000000 ug/L
							1,2-Dichloroethane	2000000 ug/L
							1,2-Dichloropropane	2000000 ug/L
							1,3,5-Trimethylbenzene	2000000 ug/L
							1,3-Dichlorobenzene	2000000 ug/L
							1,3-Dichloropropane	2000000 ug/L
							1,4-Dichlorobenzene	2000000 ug/L
							1,4-Dioxane	40000000 ug/L
							2,2-Dichloropropane	2000000 ug/L
							2-Chlorotoluene	2000000 ug/L
							2-Methyl-2-propanol	20000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	2000000 ug/L
							4-Chlorotoluene	2000000 ug/L
							4-Isopropyltoluene	2000000 ug/L
							Acrylonitrile	20000000 ug/L
							Benzene	2000000 ug/L
							Bromobenzene	2000000 ug/L
							Bromoform	2000000 ug/L
							Carbon disulfide	2000000 ug/L
							Carbon tetrachloride	2000000 ug/L
							Chlorobenzene	2000000 ug/L
							Chlorobromomethane	2000000 ug/L
							Chlorodibromomethane	2000000 ug/L
							Chloroform	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							cis-1,3-Dichloropropene	2000000 ug/L
							Cyclohexane	2000000 ug/L
							Dibromomethane	2000000 ug/L
							Dichlorobromomethane	2000000 ug/L
							Ethyl ether	2000000 ug/L
							Ethyl methacrylate	2000000 ug/L
							Ethylbenzene	2000000 ug/L
							Ethylene Dibromide	2000000 ug/L
							Hexachlorobutadiene	2000000 ug/L
							Hexane	2000000 ug/L
							Iodomethane	2000000 ug/L
							Isobutyl alcohol	20000000 ug/L
							Isopropylbenzene	2000000 ug/L
							m-Xylene & p-Xylene	2000000 ug/L
							Methyl acetate	10000000 ug/L
							Methyl tert-butyl ether	2000000 ug/L
							Methylcyclohexane	2000000 ug/L
							Methylene Chloride	2000000 ug/L
							n-Butylbenzene	2000000 ug/L
							n-Heptane	2000000 ug/L
							N-Propylbenzene	2000000 ug/L
							Naphthalene	2000000 ug/L
							o-Xylene	2000000 ug/L
							sec-Butylbenzene	2000000 ug/L
							Styrene	2000000 ug/L
							tert-Butylbenzene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							Tetrahydrofuran	4000000 ug/L
							Toluene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							trans-1,3-Dichloropropene	2000000 ug/L
							trans-1,4-Dichloro-2-butene	2000000 ug/L
							Trichloroethene	2000000 ug/L
.V1_Polar addi_00003	12/31/15		Restek, Lot A099930		(Purchased Reagent)		Acetonitrile	20000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethanol	100000000 ug/L
							Isopropyl ether	2000000 ug/L
							Propionitrile	20000000 ug/L
							t-Amyl alcohol	20000000 ug/L
							Tert-amyl methyl ether	2000000 ug/L
							Tert-butyl ethyl ether	2000000 ug/L
.V1_vnl acetat_00007	10/31/14		Restek, Lot A0102473		(Purchased Reagent)		Vinyl acetate	4000000 ug/L
V1_Mega_I_00034	04/20/15	03/20/15	Methanol, Lot 0000049909	50 mL	V1_Megamix_00013	2 mL	1,1-Dichloroethene	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							Trichloroethene	100 ug/mL
.V1_Megamix_00013	01/31/17		Restek, Lot A0108166		(Purchased Reagent)		1,1-Dichloroethene	2500000 ug/L
							cis-1,2-Dichloroethene	2500000 ug/L
							Tetrachloroethene	2500000 ug/L
							trans-1,2-Dichloroethene	2500000 ug/L
							Trichloroethene	2500000 ug/L
V2_gases_I_00052	09/10/14	09/03/14	Methanol, Lot UST_Methanol_00027	25 mL	V2_Gases_00007	1.25 mL	Vinyl chloride	100 ug/mL
.V2_Gases_00007	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Vinyl chloride	2000000 ug/L
V2_Mega_I_00021	10/03/14	09/03/14	Methanol, Lot UST_Methanol_00027	10 mL	V2_Megamix_00007	0.5 mL	1,1-Dichloroethene	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							Trichloroethene	100 ug/mL
.V2_Megamix_00007	02/28/16		Restek, Lot A093733		(Purchased Reagent)		1,1-Dichloroethene	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							Trichloroethene	2000000 ug/L
VOA_ISSS_50_W_00019	11/02/14	08/18/14	Methanol, Lot 0000049909	50 mL	VOA_ISSS250_W_00014	10 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
							1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
.VOA_ISSS250_W_00014	11/02/14	05/02/14	Methanol, Lot 0000049909	50 mL	V1_Surrogates_00002	5 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
					VOA_IS Mix_S_00005	5 mL	1,4-Dichlorobenzene-d4	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
..V1_Surrogates_00002	02/28/18		Restek, Lot A093505		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500000 ug/L
							4-Bromofluorobenzene (Surr)	2500000 ug/L
							Dibromofluoromethane (Surr)	2500000 ug/L
							Toluene-d8 (Surr)	2500000 ug/L
..VOA_IS Mix_S_00005	12/31/15		Ultra Scientific, Lot CK-3734		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500000 ug/L
							Chlorobenzene-d5	2500000 ug/L
							Fluorobenzene (IS)	2500000 ug/L
VOA_ISSS_50_W_00024	04/18/15	03/07/15	Methanol, Lot id_00037	50 mL	VOA_ISSS250_W_00019	10 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOA_ISSS250_W_00019	09/06/15	03/07/15	Methanol, Lot UST_Methanol_00037	50 mL	V1_Surrogates_00002	5 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
..V1_Surrogates_00002	02/28/18		Restek, Lot A093505		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500000 ug/L
							4-Bromofluorobenzene (Surr)	2500000 ug/L
							Dibromofluoromethane (Surr)	2500000 ug/L
							Toluene-d8 (Surr)	2500000 ug/L

Certification Summary

Client: CH2M Hill, Inc. TestAmerica Job ID: 490-75765-1
Project/Site: Schlumberger Sangamo OU-1 GW 2015

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	A2LA		NA: NELAP & A2LA
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	Alaska (UST)	State Program	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	California	State Program	9	2938
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAP	4	E87358
TestAmerica Nashville	Illinois	NELAP	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAP	7	E-10229
TestAmerica Nashville	Kentucky (UST)	State Program	4	19
TestAmerica Nashville	Kentucky (WW)	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAP	6	30613
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAP	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana (UST)	State Program	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAP	1	2963
TestAmerica Nashville	New Jersey	NELAP	2	TN965
TestAmerica Nashville	New York	NELAP	2	11342
TestAmerica Nashville	North Carolina (WW/SW)	State Program	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio VAP	State Program	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAP	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAP	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009 (001)
TestAmerica Nashville	South Carolina (DW)	State Program	4	84009 (002)
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAP	6	T104704077
TestAmerica Nashville	USDA	Federal		S-48469
TestAmerica Nashville	Utah	NELAP	8	TN00032
TestAmerica Nashville	Virginia	NELAP	3	460152
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia DEP	State Program	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430
TestAmerica Nashville	Wyoming (UST)	A2LA	8	453.07

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
SWMW-1-GW-HS-040115	490-75765-1	107	105	98	87
SCMW-5-GW-HS-040115	490-75765-2	106	106	99	87
SDMW-2-GW-HS-040115	490-75765-3	107	107	96	87
SDMW-4-GW-HS-040115	490-75765-4	108	108	96	88
SDMW-4-GW-HS-040115 DL	490-75765-4 DL	111	105	98	86
SDMW-4-GW-HS-040115-FD	490-75765-5	106	105	99	88
SDMW-4-GW-HS-040115-FD DL	490-75765-5 DL	109	104	98	87
SDMW-7-GW-HS-040115	490-75765-6	107	106	97	87
SDMW-8-GW-HS-040115	490-75765-7	105	103	101	87
SDMW-8-GW-HS-040115 DL	490-75765-7 DL	104	102	98	85
SGMW-9-GW-HS-040115	490-75765-8	107	106	97	85
SGMW-7-GW-HS-040115	490-75765-9	107	105	98	86
SHMW-2-GW-HS-040115	490-75765-10	103	104	94	89
SHMW-3-GW-HS-040115	490-75765-11	104	105	93	87
SHMW-3-GW-HS-040115 DL	490-75765-11 DL	106	104	99	86
SPMW-15-GW-HS-040115	490-75765-12	104	104	95	86
SPMW-17-GW-HS-040115	490-75765-13	105	103	96	88
SPMW-17-GW-HS-040115-FD	490-75765-14	96	106	95	86
SPMW-19-GW-HS-040115	490-75765-15	107	105	96	87
SPMW-20-GW-HS-040115	490-75765-16	105	103	98	87
SPMW-20-GW-HS-040115 DL	490-75765-16 DL	105	105	101	88
SW-2-SW-040115	490-75765-17	108	106	97	86
SW-2-SW-040115-FD	490-75765-18	105	106	97	85
SW-3-SW-040115	490-75765-19	107	104	96	87
TB-01-040115	490-75765-20	105	104	96	87
	MB 490-240119/6	105	107	96	86

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
	MB 490-240241/6	106	105	98	87
	MB 490-240285/6	106	106	96	88
	LCS 490-240119/3	104	102	92	89
	LCS 490-240241/4	105	100	93	88
	LCS 490-240285/4	103	100	92	88
	LCSD 490-240119/4	105	102	93	89
SDMW-2-GW-HS-040115 MS	490-75765-3 MS	105	103	92	86
SDMW-7-GW-HS-040115 MS	490-75765-6 MS	105	100	93	87
SW-3-SW-040115 MS	490-75765-19 MS	104	100	96	86
SDMW-2-GW-HS-040115 MSD	490-75765-3 MSD	104	98	96	88
SDMW-7-GW-HS-040115 MSD	490-75765-6 MSD	105	99	93	87
SW-3-SW-040115 MSD	490-75765-19 MSD	104	96	97	90

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 04091503.D

Lab ID: LCS 490-240119/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	54.29	109	76-125	
1,1-Dichloroethene	50.0	52.67	105	79-124	
Tetrachloroethene	50.0	55.85	112	80-126	
trans-1,2-Dichloroethene	50.0	49.75	100	79-126	
Trichloroethene	50.0	53.54	107	80-123	
Vinyl chloride	50.0	52.20	104	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 04091532.D

Lab ID: LCS 490-240241/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	53.11	106	76-125	
1,1-Dichloroethene	50.0	51.65	103	79-124	
Tetrachloroethene	50.0	55.52	111	80-126	
trans-1,2-Dichloroethene	50.0	52.77	106	79-126	
Trichloroethene	50.0	53.84	108	80-123	
Vinyl chloride	62.5	63.58	102	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 04101504.D

Lab ID: LCS 490-240285/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	53.77	108	76-125	
1,1-Dichloroethene	50.0	51.79	104	79-124	
Tetrachloroethene	50.0	56.92	114	80-126	
trans-1,2-Dichloroethene	50.0	54.00	108	79-126	
Trichloroethene	50.0	53.92	108	80-123	
Vinyl chloride	62.5	64.79	104	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 04091504.D

Lab ID: LCSD 490-240119/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	53.47	107	2	17	76-125	
1,1-Dichloroethene	50.0	51.62	103	2	17	79-124	
Tetrachloroethene	50.0	55.60	111	0	16	80-126	
trans-1,2-Dichloroethene	50.0	48.64	97	2	16	79-126	
Trichloroethene	50.0	52.83	106	1	17	80-123	
Vinyl chloride	50.0	50.95	102	2	17	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 04091526.D

Lab ID: 490-75765-3 MS Client ID: SDMW-2-GW-HS-040115 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	1.00 U	53.73	107	68-138	
1,1-Dichloroethene	50.0	1.00 U	55.04	110	70-142	
Tetrachloroethene	50.0	61.5	134.6	146	72-145	*
trans-1,2-Dichloroethene	50.0	1.00 U	50.31	101	66-143	
Trichloroethene	50.0	3.51	58.28	110	73-144	
Vinyl chloride	62.5	1.00 U	69.57	111	56-129	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 04091549.D

Lab ID: 490-75765-6 MS Client ID: SDMW-7-GW-HS-040115 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	7.16	62.06	110	68-138	
1,1-Dichloroethene	50.0	2.23	60.34	116	70-142	
Tetrachloroethene	50.0	133	190.0	113	72-145	
trans-1,2-Dichloroethene	50.0	1.00 U	53.42	107	66-143	
Trichloroethene	50.0	290	354.6	130	73-144	
Vinyl chloride	62.5	1.00 U	74.02	118	56-129	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 04101523.D

Lab ID: 490-75765-19 MS Client ID: SW-3-SW-040115 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	1.00 U	54.06	108	68-138	
1,1-Dichloroethene	50.0	1.00 U	54.71	109	70-142	
Tetrachloroethene	50.0	1.00 U	57.94	116	72-145	
trans-1,2-Dichloroethene	50.0	1.00 U	51.16	102	66-143	
Trichloroethene	50.0	1.00 U	55.15	110	73-144	
Vinyl chloride	62.5	1.00 U	66.22	106	56-129	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 04091527.D

Lab ID: 490-75765-3 MSD Client ID: SDMW-2-GW-HS-040115 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	55.58	111	3	17	68-138	
1,1-Dichloroethene	50.0	57.40	115	4	17	70-142	
Tetrachloroethene	50.0	130.0	137	4	16	72-145	
trans-1,2-Dichloroethene	50.0	52.30	105	4	16	66-143	
Trichloroethene	50.0	60.80	115	4	17	73-144	
Vinyl chloride	62.5	72.67	116	4	17	56-129	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 04091550.D

Lab ID: 490-75765-6 MSD Client ID: SDMW-7-GW-HS-040115 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	64.62	115	4	17	68-138	
1,1-Dichloroethene	50.0	61.12	118	1	17	70-142	
Tetrachloroethene	50.0	190.9	115	0	16	72-145	
trans-1,2-Dichloroethene	50.0	54.73	109	2	16	66-143	
Trichloroethene	50.0	342.8	106	3	17	73-144	
Vinyl chloride	62.5	74.18	119	0	17	56-129	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 04101524.D

Lab ID: 490-75765-19 MSD Client ID: SW-3-SW-040115 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	56.71	113	5	17	68-138	
1,1-Dichloroethene	50.0	58.95	118	7	17	70-142	
Tetrachloroethene	50.0	63.02	126	8	16	72-145	
trans-1,2-Dichloroethene	50.0	58.88	118	14	16	66-143	
Trichloroethene	50.0	58.84	118	6	17	73-144	
Vinyl chloride	62.5	71.05	114	7	17	56-129	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab File ID: 04091506.D Lab Sample ID: MB 490-240119/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP48 Date Analyzed: 04/09/2015 14:02

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-240119/3	04091503.D	04/09/2015 12:37
	LCSD 490-240119/4	04091504.D	04/09/2015 13:05
SWMW-1-GW-HS-040115	490-75765-1	04091513.D	04/09/2015 17:38
SCMW-5-GW-HS-040115	490-75765-2	04091514.D	04/09/2015 18:07
SDMW-2-GW-HS-040115	490-75765-3	04091515.D	04/09/2015 18:35
SDMW-4-GW-HS-040115	490-75765-4	04091516.D	04/09/2015 19:03
SDMW-4-GW-HS-040115-FD	490-75765-5	04091517.D	04/09/2015 19:32
SDMW-8-GW-HS-040115	490-75765-7	04091523.D	04/09/2015 22:22
SGMW-9-GW-HS-040115	490-75765-8	04091524.D	04/09/2015 22:50
SGMW-7-GW-HS-040115	490-75765-9	04091525.D	04/09/2015 23:19
SDMW-2-GW-HS-040115 MS	490-75765-3 MS	04091526.D	04/09/2015 23:47
SDMW-2-GW-HS-040115 MSD	490-75765-3 MSD	04091527.D	04/10/2015 00:16

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab File ID: 04091534.D Lab Sample ID: MB 490-240241/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP48 Date Analyzed: 04/10/2015 03:34

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-240241/4	04091532.D	04/10/2015 02:37
SDMW-7-GW-HS-040115	490-75765-6	04091536.D	04/10/2015 04:31
SHMW-2-GW-HS-040115	490-75765-10	04091540.D	04/10/2015 06:24
SHMW-3-GW-HS-040115	490-75765-11	04091541.D	04/10/2015 06:53
SPMW-15-GW-HS-040115	490-75765-12	04091542.D	04/10/2015 07:21
SPMW-17-GW-HS-040115	490-75765-13	04091543.D	04/10/2015 07:50
SPMW-17-GW-HS-040115-FD	490-75765-14	04091544.D	04/10/2015 08:18
SPMW-19-GW-HS-040115	490-75765-15	04091545.D	04/10/2015 08:46
SDMW-7-GW-HS-040115 MS	490-75765-6 MS	04091549.D	04/10/2015 09:15
SDMW-7-GW-HS-040115 MSD	490-75765-6 MSD	04091550.D	04/10/2015 09:43

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab File ID: 04101506.D Lab Sample ID: MB 490-240285/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP48 Date Analyzed: 04/10/2015 12:53

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-240285/4	04101504.D	04/10/2015 11:56
TB-01-040115	490-75765-20	04101507.D	04/10/2015 13:21
SW-3-SW-040115	490-75765-19	04101508.D	04/10/2015 13:50
SW-2-SW-040115-FD	490-75765-18	04101509.D	04/10/2015 14:18
SW-2-SW-040115	490-75765-17	04101510.D	04/10/2015 14:47
SPMW-20-GW-HS-040115	490-75765-16	04101511.D	04/10/2015 15:15
SDMW-4-GW-HS-040115 DL	490-75765-4 DL	04101512.D	04/10/2015 15:43
SDMW-4-GW-HS-040115-FD DL	490-75765-5 DL	04101513.D	04/10/2015 16:12
SDMW-8-GW-HS-040115 DL	490-75765-7 DL	04101514.D	04/10/2015 16:40
SHMW-3-GW-HS-040115 DL	490-75765-11 DL	04101515.D	04/10/2015 17:08
SPMW-20-GW-HS-040115 DL	490-75765-16 DL	04101522.D	04/10/2015 20:27
SW-3-SW-040115 MS	490-75765-19 MS	04101523.D	04/10/2015 20:55
SW-3-SW-040115 MSD	490-75765-19 MSD	04101524.D	04/10/2015 21:24

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab File ID: 09051407.D BFB Injection Date: 09/05/2014

Instrument ID: HP48 BFB Injection Time: 12:42

Analysis Batch No.: 188769

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.9	
75	30.0 - 60.0 % of mass 95	45.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	105.3	
175	5.0 - 9.0 % of mass 174	7.7	(7.3)1
176	95.0 - 101.0 % of mass 174	102.1	(97.0)1
177	5.0 - 9.0 % of mass 176	6.6	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD0005 490-188769/2	09051409.D	09/05/2014	13:38
	STD001 490-188769/3	09051410.D	09/05/2014	14:07
	STD002 490-188769/4	09051411.D	09/05/2014	14:35
	STD005 490-188769/5	09051412.D	09/05/2014	15:03
	STD010 490-188769/6	09051413.D	09/05/2014	15:32
	STD020 490-188769/7	09051414.D	09/05/2014	16:00
	ICIS 490-188769/8	09051415.D	09/05/2014	16:29
	ICV 490-188769/9	09051416.D	09/05/2014	16:57
	STD100 490-188769/10	09051417.D	09/05/2014	17:25
	STD200 490-188769/11	09051418.D	09/05/2014	17:54
	STD400 490-188769/12	09051419.D	09/05/2014	18:22

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab File ID: 04091501.D BFB Injection Date: 04/09/2015

Instrument ID: HP48 BFB Injection Time: 11:40

Analysis Batch No.: 240119

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.3	
75	30.0 - 60.0 % of mass 95	46.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.4	(0.3)1
174	50.0 - 120.00 % of mass 95	106.7	
175	5.0 - 9.0 % of mass 174	8.0	(7.5)1
176	95.0 - 101.0 % of mass 174	104.2	(97.7)1
177	5.0 - 9.0 % of mass 176	6.9	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-240119/2	04091502.D	04/09/2015	12:09
	LCS 490-240119/3	04091503.D	04/09/2015	12:37
	LCSD 490-240119/4	04091504.D	04/09/2015	13:05
	MB 490-240119/6	04091506.D	04/09/2015	14:02
SWMW-1-GW-HS-040115	490-75765-1	04091513.D	04/09/2015	17:38
SCMW-5-GW-HS-040115	490-75765-2	04091514.D	04/09/2015	18:07
SDMW-2-GW-HS-040115	490-75765-3	04091515.D	04/09/2015	18:35
SDMW-4-GW-HS-040115	490-75765-4	04091516.D	04/09/2015	19:03
SDMW-4-GW-HS-040115-FD	490-75765-5	04091517.D	04/09/2015	19:32
SDMW-8-GW-HS-040115	490-75765-7	04091523.D	04/09/2015	22:22
SGMW-9-GW-HS-040115	490-75765-8	04091524.D	04/09/2015	22:50
SGMW-7-GW-HS-040115	490-75765-9	04091525.D	04/09/2015	23:19
SDMW-2-GW-HS-040115 MS	490-75765-3 MS	04091526.D	04/09/2015	23:47
SDMW-2-GW-HS-040115 MSD	490-75765-3 MSD	04091527.D	04/10/2015	00:16

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab File ID: 04091529.D BFB Injection Date: 04/10/2015

Instrument ID: HP48 BFB Injection Time: 01:12

Analysis Batch No.: 240241

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.2	
75	30.0 - 60.0 % of mass 95	45.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	107.8	
175	5.0 - 9.0 % of mass 174	7.8	(7.3)1
176	95.0 - 101.0 % of mass 174	104.4	(96.8)1
177	5.0 - 9.0 % of mass 176	7.0	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-240241/3	04091531.D	04/10/2015	02:09
	LCS 490-240241/4	04091532.D	04/10/2015	02:37
	MB 490-240241/6	04091534.D	04/10/2015	03:34
SDMW-7-GW-HS-040115	490-75765-6	04091536.D	04/10/2015	04:31
SHMW-2-GW-HS-040115	490-75765-10	04091540.D	04/10/2015	06:24
SHMW-3-GW-HS-040115	490-75765-11	04091541.D	04/10/2015	06:53
SPMW-15-GW-HS-040115	490-75765-12	04091542.D	04/10/2015	07:21
SPMW-17-GW-HS-040115	490-75765-13	04091543.D	04/10/2015	07:50
SPMW-17-GW-HS-040115-FD	490-75765-14	04091544.D	04/10/2015	08:18
SPMW-19-GW-HS-040115	490-75765-15	04091545.D	04/10/2015	08:46
SDMW-7-GW-HS-040115 MS	490-75765-6 MS	04091549.D	04/10/2015	09:15
SDMW-7-GW-HS-040115 MSD	490-75765-6 MSD	04091550.D	04/10/2015	09:43

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab File ID: 04101501.D BFB Injection Date: 04/10/2015

Instrument ID: HP48 BFB Injection Time: 10:31

Analysis Batch No.: 240285

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.4	
75	30.0 - 60.0 % of mass 95	46.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.6	(0.6)1
174	50.0 - 120.00 % of mass 95	107.6	
175	5.0 - 9.0 % of mass 174	7.6	(7.1)1
176	95.0 - 101.0 % of mass 174	103.8	(96.5)1
177	5.0 - 9.0 % of mass 176	7.1	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-240285/3	04101503.D	04/10/2015	11:28
	LCS 490-240285/4	04101504.D	04/10/2015	11:56
	MB 490-240285/6	04101506.D	04/10/2015	12:53
TB-01-040115	490-75765-20	04101507.D	04/10/2015	13:21
SW-3-SW-040115	490-75765-19	04101508.D	04/10/2015	13:50
SW-2-SW-040115-FD	490-75765-18	04101509.D	04/10/2015	14:18
SW-2-SW-040115	490-75765-17	04101510.D	04/10/2015	14:47
SPMW-20-GW-HS-040115	490-75765-16	04101511.D	04/10/2015	15:15
SDMW-4-GW-HS-040115 DL	490-75765-4 DL	04101512.D	04/10/2015	15:43
SDMW-4-GW-HS-040115-FD DL	490-75765-5 DL	04101513.D	04/10/2015	16:12
SDMW-8-GW-HS-040115 DL	490-75765-7 DL	04101514.D	04/10/2015	16:40
SHMW-3-GW-HS-040115 DL	490-75765-11 DL	04101515.D	04/10/2015	17:08
SPMW-20-GW-HS-040115 DL	490-75765-16 DL	04101522.D	04/10/2015	20:27
SW-3-SW-040115 MS	490-75765-19 MS	04101523.D	04/10/2015	20:55
SW-3-SW-040115 MSD	490-75765-19 MSD	04101524.D	04/10/2015	21:24

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Sample No.: ICIS 490-188769/8 Date Analyzed: 09/05/2014 16:29

Instrument ID: HP48 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 09051415.D Heated Purge: (Y/N) N

Calibration ID: 32670

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		545455	4.12	459813	6.49	306100	8.64
UPPER LIMIT		1090910	4.62	919626	6.99	612200	9.14
LOWER LIMIT		272728	3.62	229907	5.99	153050	8.14
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-188769/9		559048	4.12	472326	6.49	318615	8.64
CCVIS 490-240119/2		552304	4.12	500685	6.49	304945	8.63
CCVIS 490-240241/3		539321	4.12	488119	6.49	304739	8.63
CCVIS 490-240285/3		543295	4.12	487413	6.49	299238	8.63

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Sample No.: CCVIS 490-240119/2 Date Analyzed: 04/09/2015 12:09

Instrument ID: HP48 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 04091502.D Heated Purge: (Y/N) N

Calibration ID: 33100

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		552304	4.12	500685	6.49	304945	8.63
UPPER LIMIT		1104608	4.62	1001370	6.99	609890	9.13
LOWER LIMIT		276152	3.62	250343	5.99	152473	8.13
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-240119/3		553035	4.12	496686	6.49	307941	8.63
LCSD 490-240119/4		559548	4.12	502685	6.49	310702	8.63
MB 490-240119/6		547099	4.12	466783	6.49	280599	8.63
490-75765-1	SWMW-1-GW-HS-040115	544144	4.12	469968	6.49	278458	8.63
490-75765-2	SCMW-5-GW-HS-040115	540241	4.12	464318	6.49	275711	8.63
490-75765-3	SDMW-2-GW-HS-040115	539089	4.12	463055	6.49	278607	8.63
490-75765-4	SDMW-4-GW-HS-040115	536596	4.12	465307	6.49	278488	8.63
490-75765-5	SDMW-4-GW-HS-040115-FD	546820	4.12	468015	6.49	277816	8.63
490-75765-7	SDMW-8-GW-HS-040115	537285	4.12	455373	6.49	272073	8.63
490-75765-8	SGMW-9-GW-HS-040115	529372	4.12	450825	6.49	269685	8.63
490-75765-9	SGMW-7-GW-HS-040115	530990	4.12	451391	6.49	269063	8.63
490-75765-3 MS	SDMW-2-GW-HS-040115 MS	540342	4.12	484901	6.49	301830	8.63
490-75765-3 MSD	SDMW-2-GW-HS-040115 MSD	547976	4.12	491710	6.49	299829	8.63

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Sample No.: CCVIS 490-240241/3 Date Analyzed: 04/10/2015 02:09

Instrument ID: HP48 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 04091531.D Heated Purge: (Y/N) N

Calibration ID: 33100

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		539321	4.12	488119	6.49	304739	8.63
UPPER LIMIT		1078642	4.62	976238	6.99	609478	9.13
LOWER LIMIT		269661	3.62	244060	5.99	152370	8.13
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-240241/4		548416	4.12	491072	6.49	304869	8.63
MB 490-240241/6		539894	4.12	457654	6.49	273288	8.63
490-75765-6	SDMW-7-GW-HS-040115	528376	4.12	451557	6.49	269204	8.63
490-75765-10	SHMW-2-GW-HS-040115	587951	4.12	522091	6.49	314841	8.63
490-75765-11	SHMW-3-GW-HS-040115	574234	4.12	521155	6.49	312382	8.63
490-75765-12	SPMW-15-GW-HS-040115	575770	4.12	499925	6.49	303447	8.63
490-75765-13	SPMW-17-GW-HS-040115	569872	4.12	490103	6.49	302870	8.63
490-75765-14	SPMW-17-GW-HS-040115-FD	549131	4.12	483287	6.49	302266	8.63
490-75765-15	SPMW-19-GW-HS-040115	548416	4.12	472683	6.49	285231	8.63
490-75765-6 MS	SDMW-7-GW-HS-040115 MS	554384	4.12	495297	6.49	308794	8.63
490-75765-6 MSD	SDMW-7-GW-HS-040115 MSD	558726	4.12	498816	6.49	308610	8.63

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Sample No.: CCVIS 490-240285/3 Date Analyzed: 04/10/2015 11:28

Instrument ID: HP48 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 04101503.D Heated Purge: (Y/N) N

Calibration ID: 33100

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		543295	4.12	487413	6.49	299238	8.63
UPPER LIMIT		1086590	4.62	974826	6.99	598476	9.13
LOWER LIMIT		271648	3.62	243707	5.99	149619	8.13
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-240285/4		555040	4.12	499403	6.49	308284	8.63
MB 490-240285/6		534142	4.12	459996	6.49	276201	8.63
490-75765-20	TB-01-040115	530084	4.12	461089	6.49	271328	8.63
490-75765-19	SW-3-SW-040115	529686	4.12	450975	6.49	269807	8.63
490-75765-18	SW-2-SW-040115-FD	524106	4.11	446281	6.49	267761	8.63
490-75765-17	SW-2-SW-040115	523798	4.11	445610	6.49	265973	8.63
490-75765-16	SPMW-20-GW-HS-040115	527067	4.12	459944	6.49	266688	8.63
490-75765-4 DL	SDMW-4-GW-HS-040115 DL	515327	4.11	438198	6.49	258436	8.63
490-75765-5 DL	SDMW-4-GW-HS-040115-FD DL	523166	4.11	444829	6.49	261217	8.63
490-75765-7 DL	SDMW-8-GW-HS-040115 DL	524745	4.12	439702	6.49	260871	8.63
490-75765-11 DL	SHMW-3-GW-HS-040115 DL	517757	4.12	437646	6.49	257870	8.63
490-75765-16 DL	SPMW-20-GW-HS-040115 DL	526616	4.12	445730	6.49	261060	8.63
490-75765-19 MS	SW-3-SW-040115 MS	533347	4.12	480061	6.49	296060	8.63
490-75765-19 MSD	SW-3-SW-040115 MSD	546520	4.12	484536	6.49	293053	8.63

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SWMW-1-GW-HS-040115 | Lab Sample ID: 490-75765-1

Matrix: Ground Water | Lab File ID: 04091513.D

Analysis Method: 8260B | Date Collected: 04/01/2015 10:00

Sample wt/vol: 10(mL) | Date Analyzed: 04/09/2015 17:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240119 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	2.44		1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	27.7		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	9.99		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		70-130
1868-53-7	Dibromofluoromethane (Surr)	107		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SCMW-5-GW-HS-040115 | Lab Sample ID: 490-75765-2

Matrix: Ground Water | Lab File ID: 04091514.D

Analysis Method: 8260B | Date Collected: 04/01/2015 14:20

Sample wt/vol: 10(mL) | Date Analyzed: 04/09/2015 18:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240119 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	0.906	J	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.90		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SDMW-2-GW-HS-040115 | Lab Sample ID: 490-75765-3

Matrix: Ground Water | Lab File ID: 04091515.D

Analysis Method: 8260B | Date Collected: 04/01/2015 15:00

Sample wt/vol: 10(mL) | Date Analyzed: 04/09/2015 18:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240119 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	61.5		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	3.51		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		70-130
1868-53-7	Dibromofluoromethane (Surr)	107		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SDMW-4-GW-HS-040115 | Lab Sample ID: 490-75765-4

Matrix: Ground Water | Lab File ID: 04091516.D

Analysis Method: 8260B | Date Collected: 04/01/2015 14:45

Sample wt/vol: 10(mL) | Date Analyzed: 04/09/2015 19:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240119 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	13.4		1.00	0.210
75-35-4	1,1-Dichloroethene	5.96		1.00	0.250
127-18-4	*Tetrachloroethene*	*536*	*E*	*1.00*	*0.140*
156-60-5	trans-1,2-Dichloroethene	0.658	J	1.00	0.230
79-01-6	*Trichloroethene*	*860*	*E*	*1.00*	*0.200*
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		70-130
1868-53-7	Dibromofluoromethane (Surr)	108		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SDMW-4-GW-HS-040115 DL | Lab Sample ID: 490-75765-4 DL

Matrix: Ground Water | Lab File ID: 04101512.D

Analysis Method: 8260B | Date Collected: 04/01/2015 14:45

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 15:43

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240285 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	*cis-1,2-Dichloroethene*	*10.0*	*U*	*10.0*	*2.10*
75-35-4	*1,1-Dichloroethene*	*10.0*	*U*	*10.0*	*2.50*
127-18-4	Tetrachloroethene	449		10.0	1.40
156-60-5	*trans-1,2-Dichloroethene*	*10.0*	*U*	*10.0*	*2.30*
79-01-6	Trichloroethene	764		10.0	2.00
75-01-4	*Vinyl chloride*	*10.0*	*U*	*10.0*	*1.80*

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		70-130
1868-53-7	Dibromofluoromethane (Surr)	111		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SDMW-4-GW-HS-040115-FD | Lab Sample ID: 490-75765-5

Matrix: Ground Water | Lab File ID: 04091517.D

Analysis Method: 8260B | Date Collected: 04/01/2015 14:50

Sample wt/vol: 10(mL) | Date Analyzed: 04/09/2015 19:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240119 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	13.1		1.00	0.210
75-35-4	1,1-Dichloroethene	6.14		1.00	0.250
127-18-4	*Tetrachloroethene*	*523*	*E*	*1.00*	*0.140*
156-60-5	trans-1,2-Dichloroethene	0.698	J	1.00	0.230
79-01-6	*Trichloroethene*	*875*	*E*	*1.00*	*0.200*
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SDMW-4-GW-HS-040115-FD DL | Lab Sample ID: 490-75765-5 DL

Matrix: Ground Water | Lab File ID: 04101513.D

Analysis Method: 8260B | Date Collected: 04/01/2015 14:50

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 16:12

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240285 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	*cis-1,2-Dichloroethene*	*10.0*	*U*	*10.0*	*2.10*
75-35-4	*1,1-Dichloroethene*	*10.0*	*U*	*10.0*	*2.50*
127-18-4	Tetrachloroethene	409		10.0	1.40
156-60-5	*trans-1,2-Dichloroethene*	*10.0*	*U*	*10.0*	*2.30*
79-01-6	Trichloroethene	778		10.0	2.00
75-01-4	*Vinyl chloride*	*10.0*	*U*	*10.0*	*1.80*

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		70-130
1868-53-7	Dibromofluoromethane (Surr)	109		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SDMW-7-GW-HS-040115 | Lab Sample ID: 490-75765-6

Matrix: Ground Water | Lab File ID: 04091536.D

Analysis Method: 8260B | Date Collected: 04/01/2015 15:35

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 04:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240241 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	7.16		1.00	0.210
75-35-4	1,1-Dichloroethene	2.23		1.00	0.250
127-18-4	Tetrachloroethene	133		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	290		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		70-130
1868-53-7	Dibromofluoromethane (Surr)	107		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SDMW-8-GW-HS-040115 | Lab Sample ID: 490-75765-7

Matrix: Ground Water | Lab File ID: 04091523.D

Analysis Method: 8260B | Date Collected: 04/01/2015 15:20

Sample wt/vol: 10(mL) | Date Analyzed: 04/09/2015 22:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240119 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	23.4		1.00	0.210
75-35-4	1,1-Dichloroethene	6.80		1.00	0.250
127-18-4	*Tetrachloroethene*	*459*	*E*	*1.00*	*0.140*
156-60-5	trans-1,2-Dichloroethene	0.523	J	1.00	0.230
79-01-6	*Trichloroethene*	*827*	*E*	*1.00*	*0.200*
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SDMW-8-GW-HS-040115 DL | Lab Sample ID: 490-75765-7 DL

Matrix: Ground Water | Lab File ID: 04101514.D

Analysis Method: 8260B | Date Collected: 04/01/2015 15:20

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 16:40

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240285 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	*cis-1,2-Dichloroethene*	*10.0*	*U*	*10.0*	*2.10*
75-35-4	*1,1-Dichloroethene*	*10.0*	*U*	*10.0*	*2.50*
127-18-4	Tetrachloroethene	340		10.0	1.40
156-60-5	*trans-1,2-Dichloroethene*	*10.0*	*U*	*10.0*	*2.30*
79-01-6	Trichloroethene	586		10.0	2.00
75-01-4	*Vinyl chloride*	*10.0*	*U*	*10.0*	*1.80*

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		70-130
1868-53-7	Dibromofluoromethane (Surr)	104		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SGMW-9-GW-HS-040115 | Lab Sample ID: 490-75765-8

Matrix: Ground Water | Lab File ID: 04091524.D

Analysis Method: 8260B | Date Collected: 04/01/2015 11:40

Sample wt/vol: 10(mL) | Date Analyzed: 04/09/2015 22:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240119 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	0.676	J	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	20.5		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	17.6		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		70-130
1868-53-7	Dibromofluoromethane (Surr)	107		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SGMW-7-GW-HS-040115 | Lab Sample ID: 490-75765-9

Matrix: Ground Water | Lab File ID: 04091525.D

Analysis Method: 8260B | Date Collected: 04/01/2015 11:25

Sample wt/vol: 10(mL) | Date Analyzed: 04/09/2015 23:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240119 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	5.22		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	3.73		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		70-130
1868-53-7	Dibromofluoromethane (Surr)	107		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SHMW-2-GW-HS-040115 | Lab Sample ID: 490-75765-10

Matrix: Ground Water | Lab File ID: 04091540.D

Analysis Method: 8260B | Date Collected: 04/01/2015 11:05

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 06:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240241 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	13.6		1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	94.2		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	185		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	89		70-130
1868-53-7	Dibromofluoromethane (Surr)	103		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	94		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SHMW-3-GW-HS-040115 | Lab Sample ID: 490-75765-11

Matrix: Ground Water | Lab File ID: 04091541.D

Analysis Method: 8260B | Date Collected: 04/01/2015 10:55

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 06:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240241 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	89.5		1.00	0.210
75-35-4	1,1-Dichloroethene	0.542	J	1.00	0.250
127-18-4	*Tetrachloroethene*	*1130*	*E*	*1.00*	*0.140*
156-60-5	trans-1,2-Dichloroethene	0.973	J	1.00	0.230
79-01-6	*Trichloroethene*	*2200*	*E*	*1.00*	*0.200*
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		70-130
1868-53-7	Dibromofluoromethane (Surr)	104		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Client Sample ID: SHMW-3-GW-HS-040115 DL Lab Sample ID: 490-75765-11 DL

Matrix: Ground Water Lab File ID: 04101515.D

Analysis Method: 8260B Date Collected: 04/01/2015 10:55

Sample wt/vol: 10(mL) Date Analyzed: 04/10/2015 17:08

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 240285 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	*cis-1,2-Dichloroethene*	*50.0*	*U*	*50.0*	*10.5*
75-35-4	*1,1-Dichloroethene*	*50.0*	*U*	*50.0*	*12.5*
127-18-4	Tetrachloroethene	933		50.0	7.00
156-60-5	*trans-1,2-Dichloroethene*	*50.0*	*U*	*50.0*	*11.5*
79-01-6	Trichloroethene	2060		50.0	10.0
75-01-4	*Vinyl chloride*	*50.0*	*U*	*50.0*	*9.00*

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SPMW-15-GW-HS-040115 | Lab Sample ID: 490-75765-12

Matrix: Ground Water | Lab File ID: 04091542.D

Analysis Method: 8260B | Date Collected: 04/01/2015 17:05

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 07:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240241 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	41.5		1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	200		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	226		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		70-130
1868-53-7	Dibromofluoromethane (Surr)	104		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SPMW-17-GW-HS-040115 | Lab Sample ID: 490-75765-13

Matrix: Ground Water | Lab File ID: 04091543.D

Analysis Method: 8260B | Date Collected: 04/01/2015 16:55

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 07:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240241 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	2.27		1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	21.9		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	34.1		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SPMW-17-GW-HS-040115-FD | Lab Sample ID: 490-75765-14

Matrix: Ground Water | Lab File ID: 04091544.D

Analysis Method: 8260B | Date Collected: 04/01/2015 17:00

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 08:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240241 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	16.7		1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	121		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	186		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SPMW-19-GW-HS-040115 | Lab Sample ID: 490-75765-15

Matrix: Ground Water | Lab File ID: 04091545.D

Analysis Method: 8260B | Date Collected: 04/01/2015 16:40

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 08:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240241 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	9.78		1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	79.6		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	33.0		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		70-130
1868-53-7	Dibromofluoromethane (Surr)	107		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SPMW-20-GW-HS-040115 | Lab Sample ID: 490-75765-16

Matrix: Ground Water | Lab File ID: 04101511.D

Analysis Method: 8260B | Date Collected: 04/01/2015 10:40

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 15:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240285 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	*Tetrachloroethene*	*3090*	*E*	*1.00*	*0.140*
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	14.5		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SPMW-20-GW-HS-040115 DL | Lab Sample ID: 490-75765-16 DL

Matrix: Ground Water | Lab File ID: 04101522.D

Analysis Method: 8260B | Date Collected: 04/01/2015 10:40

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 20:27

Soil Aliquot Vol: | Dilution Factor: 100

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240285 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	*cis-1,2-Dichloroethene*	*100*	*U*	*100*	*21.0*
75-35-4	*1,1-Dichloroethene*	*100*	*U*	*100*	*25.0*
127-18-4	Tetrachloroethene	3230		100	14.0
156-60-5	*trans-1,2-Dichloroethene*	*100*	*U*	*100*	*23.0*
79-01-6	*Trichloroethene*	*100*	*U*	*100*	*20.0*
75-01-4	*Vinyl chloride*	*100*	*U*	*100*	*18.0*

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SW-2-SW-040115 | Lab Sample ID: 490-75765-17

Matrix: Ground Water | Lab File ID: 04101510.D

Analysis Method: 8260B | Date Collected: 04/01/2015 14:25

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 14:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240285 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	0.951	J	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	2.83		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		70-130
1868-53-7	Dibromofluoromethane (Surr)	108		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SW-2-SW-040115-FD | Lab Sample ID: 490-75765-18

Matrix: Ground Water | Lab File ID: 04101509.D

Analysis Method: 8260B | Date Collected: 04/01/2015 14:25

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 14:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240285 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	0.981	J	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	2.84		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SW-3-SW-040115 | Lab Sample ID: 490-75765-19

Matrix: Ground Water | Lab File ID: 04101508.D

Analysis Method: 8260B | Date Collected: 04/01/2015 14:52

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 13:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240285 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		70-130
1868-53-7	Dibromofluoromethane (Surr)	107		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Client Sample ID: TB-01-040115 Lab Sample ID: 490-75765-20

Matrix: Water Lab File ID: 04101507.D

Analysis Method: 8260B Date Collected: 04/01/2015 09:00

Sample wt/vol: 10(mL) Date Analyzed: 04/10/2015 13:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 240285 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 188769

SDG No.:

Instrument ID: HP48 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/05/2014 13:38 Calibration End Date: 09/05/2014 18:22 Calibration ID: 32670

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-188769/2	09051409.D
Level 2	STD001 490-188769/3	09051410.D
Level 3	STD002 490-188769/4	09051411.D
Level 4	STD005 490-188769/5	09051412.D
Level 5	STD010 490-188769/6	09051413.D
Level 6	STD020 490-188769/7	09051414.D
Level 7	ICIS 490-188769/8	09051415.D
Level 8	STD100 490-188769/10	09051417.D
Level 9	STD200 490-188769/11	09051418.D
Level 10	STD400 490-188769/12	09051419.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Dichlorodifluoromethane	0.2558 0.2711	0.2256 0.2695	0.2506 0.2729	0.2736 0.2584	0.2666 0.2700	Ave		0.2614				5.7		15.0			
Chloromethane	0.2641 0.2788	0.2733 0.2654	0.2888 0.2912	0.2839 0.2950	0.2800 0.3197	Ave		0.2840			0.1000	5.7		15.0			
Vinyl chloride	0.2792 0.2683	0.2429 0.2684	0.2525 0.2839	0.2692 0.2773	0.2645 0.2907	Ave		0.2697				5.3		15.0			
Butadiene	0.1831 0.2309	0.1846 0.2413	0.1878 0.2554	0.2196 0.2492	0.2212 0.2607	Ave		0.2234				13.0		15.0			
Bromomethane	+++++ 0.1265	0.0939 0.1428	0.0944 0.1746	0.1036 0.1631	0.1110 0.1485	Lin1	-0.126	0.1551							0.9940		0.9900
Chloroethane	0.1575 0.1695	0.1619 0.1695	0.1652 0.1779	0.1730 0.1742	0.1662 0.1722	Ave		0.1687				3.6		15.0			
Dichlorofluoromethane	0.4062 0.4065	0.4066 0.3993	0.3804 0.4197	0.4087 0.4173	0.3956 0.4281	Ave		0.4068				3.3		15.0			
Trichlorofluoromethane	0.3261 0.3640	0.3333 0.3653	0.3413 0.3825	0.3802 0.3696	0.3528 0.3812	Ave		0.3596				5.7		15.0			
Ethanol	+++++ 0.0006	0.0006 0.0005	0.0006 0.0005	0.0006 0.0005	0.0005 +++++	Ave		0.0005				4.7		15.0			
Diethyl ether	0.1379 0.1435	0.1444 0.1402	0.1408 0.1579	0.1419 0.1576	0.1445 0.1565	Ave		0.1465				5.3		15.0			
Acrolein	+++++ 0.0142	0.0061 0.0150	0.0126 0.0159	0.0137 0.0158	0.0135 0.0161	Lin2	-0.022	0.0155							0.9960		0.9900
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.2300 0.2142	0.2216 0.2093	0.1988 0.2215	0.2149 0.2226	0.2130 0.2336	Ave		0.2179				4.7		15.0			
1,1-Dichloroethene	0.1944 0.2135	0.1888 0.2036	0.1994 0.2209	0.2077 0.2177	0.2053 0.2236	Ave		0.2075				5.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 188769

SDG No.:

Instrument ID: HP48 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/05/2014 13:38 Calibration End Date: 09/05/2014 18:22 Calibration ID: 32670

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Acetone	+++++ 0.0117	0.0102 0.0102	0.0102 0.0106	0.0112 0.0107	0.0111 0.0106	Ave		0.0107				5.0		15.0			
Iodomethane	0.1729 0.2691	0.1895 0.2694	0.2021 0.3014	0.2227 0.2723	0.2338 0.2653	Lin2	-0.054	0.2608							0.9900		0.9900
Isopropyl alcohol	0.0048 0.0060	0.0057 0.0053	0.0054 0.0059	0.0065 0.0059	0.0059 0.0057	Ave		0.0057				8.1		15.0			
Carbon disulfide	0.7667 0.6185	0.6474 0.6155	0.6520 0.6354	0.6388 0.6363	0.6323 0.6368	Ave		0.6480				6.7		15.0			
3-Chloro-1-propene	0.1863 0.1736	0.1610 0.1749	0.1681 0.1830	0.1743 0.1791	0.1756 0.1986	Ave		0.1774				5.8		15.0			
Acetonitrile	0.0574 0.0517	0.0504 0.0497	0.0514 0.0523	0.0507 0.0499	0.0514 0.0500	Ave		0.0515				4.3		15.0			
Methyl acetate	0.1458 0.1257	0.1239 0.1168	0.1344 0.1212	0.1234 0.1240	0.1200 0.1206	Ave		0.1256				6.7		15.0			
Methylene Chloride	0.2953 0.2332	0.2494 0.2310	0.2425 0.2404	0.2405 0.2381	0.2345 0.2401	Ave		0.2445				7.6		15.0			
tert-Butyl alcohol (TBA)	+++++ 0.0090	0.0064 0.0088	0.0082 0.0093	0.0091 0.0092	0.0090 0.0105	Ave		0.0088				12.0		15.0			
Methyl tert-butyl ether	0.4504 0.4497	0.4242 0.4559	0.4439 0.4815	0.4591 0.4856	0.4471 0.4886	Ave		0.4586				4.5		15.0			
trans-1,2-Dichloroethene	0.2960 0.3026	0.2811 0.3064	0.2906 0.3241	0.3047 0.3305	0.2983 0.3420	Ave		0.3076				6.2		15.0			
Acrylonitrile	0.0490 0.0491	0.0486 0.0471	0.0485 0.0509	0.0496 0.0515	0.0481 0.0525	Ave		0.0495				3.3		15.0			
Hexane	0.3740 0.3287	0.3257 0.3299	0.3132 0.3310	0.3342 0.3299	0.3235 0.3412	Ave		0.3331				4.8		15.0			
Diisopropyl ether	0.7061 0.6715	0.6322 0.6699	0.6592 0.7105	0.6590 0.7230	0.6519 0.7321	Ave		0.6815				5.0		15.0			
1,1-Dichloroethane	0.4143 0.4276	0.3589 0.4297	0.4259 0.4510	0.4358 0.4535	0.4234 0.4661	Ave		0.4286			0.1000	6.8		15.0			
Vinyl acetate	0.3785 0.3344	0.3494 0.3485	0.3554 0.3592	0.3423 0.3601	0.3400 0.3625	Ave		0.3530				3.7		15.0			
Chloroprene	0.3279 0.3217	0.3098 0.3277	0.3090 0.3463	0.3279 0.3408	0.3163 0.3539	Ave		0.3281				4.6		15.0			
Ethyl tert-butyl ether	0.5366 0.5747	0.5025 0.5742	0.5449 0.6079	0.5554 0.6164	0.5529 0.6327	Ave		0.5698				7.0		15.0			
2,2-Dichloropropane	0.3798 0.3149	0.3522 0.3150	0.3220 0.3254	0.3381 0.3202	0.3193 0.3275	Ave		0.3314				6.2		15.0			
cis-1,2-Dichloroethene	0.3516 0.3803	0.3516 0.3817	0.3837 0.4050	0.3802 0.4076	0.3742 0.4198	Ave		0.3836				5.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 188769

SDG No.:

Instrument ID: HP48 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/05/2014 13:38 Calibration End Date: 09/05/2014 18:22 Calibration ID: 32670

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
2-Butanone (MEK)	0.0100 0.0151	0.0122 0.0145	0.0134 0.0152	0.0144 0.0149	0.0142 0.0155	Ave		0.0139				12.0		15.0			
Ethyl acetate	0.2685 0.2122	0.2339 0.2096	0.2197 0.2154	0.2178 0.2157	0.2107 0.2202	Ave		0.2224				7.9		15.0			
Propionitrile	0.0201 0.0188	0.0155 0.0183	0.0178 0.0188	0.0187 0.0184	0.0187 0.0187	Ave		0.0184				6.4		15.0			
Methacrylonitrile	0.0840 0.0840	0.0793 0.0836	0.0820 0.0875	0.0824 0.0909	0.0816 0.0963	Ave		0.0852				6.0		15.0			
Bromochloromethane	+++++ 0.1570	0.1428 0.1522	0.1590 0.1625	0.1610 0.1648	0.1582 0.1679	Ave		0.1584				4.7		15.0			
Tetrahydrofuran	+++++ 0.0383	0.0331 0.0360	0.0396 0.0379	0.0320 0.0381	0.0377 0.0412	Ave		0.0371				8.0		15.0			
Chloroform	0.4938 0.4070	0.4153 0.4000	0.4160 0.4193	0.4224 0.4182	0.4088 0.4309	Ave		0.4232				6.2		15.0			
1,1,1-Trichloroethane	0.3534 0.3307	0.3349 0.3273	0.3267 0.3398	0.3381 0.3413	0.3217 0.3656	Ave		0.3379				3.9		15.0			
Cyclohexane	0.3929 0.3810	0.3695 0.3963	0.3597 0.4135	0.3935 0.4072	0.3728 0.4323	Ave		0.3919				5.6		15.0			
1,1-Dichloropropene	0.2909 0.2845	0.2629 0.2857	0.2692 0.3022	0.2847 0.3046	0.2790 0.3199	Ave		0.2884				5.9		15.0			
Carbon tetrachloride	0.3278 0.2986	0.2889 0.3027	0.3020 0.3173	0.2999 0.3162	0.2968 0.3349	Ave		0.3085				4.8		15.0			
Isobutanol	0.0122 0.0107	0.0112 0.0104	0.0112 0.0117	0.0120 0.0119	0.0113 0.0109	Ave		0.0113				5.2		15.0			
t-Amyl alcohol	+++++ 0.0081	0.0074 0.0070	0.0079 0.0080	0.0071 0.0083	0.0080 0.0087	Ave		0.0078				7.3		15.0			
Benzene	0.9988 0.9392	0.9162 0.9381	0.9435 0.9821	0.9683 0.9976	0.9354 1.0289	Ave		0.9648				3.7		15.0			
1,2-Dichloroethane	0.2619 0.2719	0.2456 0.2647	0.2760 0.2778	0.2434 0.2781	0.2619 0.2890	Ave		0.2670				5.4		15.0			
Tert-amyl methyl ether	0.5052 0.5328	0.4899 0.5311	0.5086 0.5615	0.5025 0.5674	0.4892 0.6026	Ave		0.5291				7.1		15.0			
Heptane	0.3442 0.3239	0.3445 0.3356	0.3212 0.3432	0.3292 0.3452	0.3293 0.3610	Ave		0.3377				3.6		15.0			
n-Butanol	0.0026 0.0030	0.0026 0.0030	0.0028 0.0031	0.0030 0.0030	0.0030 0.0031	Ave		0.0029				6.5		15.0			
Trichloroethene	0.2632 0.2686	0.2578 0.2659	0.2606 0.2799	0.2697 0.2806	0.2588 0.2899	Ave		0.2695				4.0		15.0			
Ethyl acrylate	0.3344 0.3105	0.2965 0.3223	0.2986 0.3260	0.3173 0.3249	0.3078 0.3504	Ave		0.3189				5.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 188769

SDG No.:

Instrument ID: HP48 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/05/2014 13:38 Calibration End Date: 09/05/2014 18:22 Calibration ID: 32670

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Methylcyclohexane	0.4021 0.4086	0.3816 0.4170	0.3843 0.4340	0.4098 0.4313	0.3869 0.4606	Ave		0.4116				6.1		15.0			
1,2-Dichloropropane	0.2476 0.2328	0.2129 0.2336	0.2410 0.2451	0.2369 0.2472	0.2288 0.2568	Ave		0.2383				5.1		15.0			
Methyl methacrylate	0.1441 0.1313	0.1153 0.1364	0.1255 0.1407	0.1333 0.1440	0.1226 0.1450	Ave		0.1338				7.6		15.0			
Dibromomethane	0.1094 0.1148	0.1023 0.1114	0.1216 0.1152	0.1228 0.1123	0.1143 0.1133	Ave		0.1137				5.1		15.0			
1,4-Dioxane	+++++ 0.0012	+++++ 0.0013	0.0008 0.0013	0.0011 0.0012	0.0010 0.0013	Ave		0.0012				15.0		15.0			
Bromodichloromethane	0.2881 0.3065	0.2942 0.3046	0.3032 0.3198	0.3041 0.3228	0.3018 0.3376	Ave		0.3083				4.7		15.0			
2-Nitropropane	+++++ 0.0739	0.0752 0.0733	0.0755 0.0783	0.0713 0.0803	0.0712 0.0832	Ave		0.0758				5.4		15.0			
2-Chloroethyl vinyl ether	0.1068 0.1286	0.1076 0.1287	0.1133 0.1356	0.1211 0.1326	0.1173 0.1328	Ave		0.1224				8.8		15.0			
cis-1,3-Dichloropropene	0.4320 0.4267	0.3883 0.4338	0.4060 0.4488	0.4087 0.4428	0.4162 0.4477	Ave		0.4251				4.7		15.0			
4-Methyl-2-pentanone (MIBK)	0.0568 0.0601	0.0524 0.0599	0.0536 0.0620	0.0551 0.0615	0.0568 0.0626	Ave		0.0581				6.3		15.0			
Toluene	1.3721 1.2250	1.1680 1.2413	1.2080 1.2914	1.2240 1.2763	1.2085 1.2654	Ave		1.2480				4.6		15.0			
trans-1,3-Dichloropropene	0.3114 0.3330	0.3133 0.3401	0.3216 0.3595	0.3281 0.3604	0.3240 0.3632	Ave		0.3355				5.8		15.0			
Ethyl methacrylate	0.2331 0.2482	0.2249 0.2534	0.2222 0.2659	0.2205 0.2675	0.2336 0.2703	Ave		0.2440				8.0		15.0			
1,1,2-Trichloroethane	0.2038 0.2123	0.2025 0.2069	0.2157 0.2146	0.2112 0.2087	0.2072 0.2100	Ave		0.2093				2.1		15.0			
Tetrachloroethene	0.4031 0.3671	0.3623 0.3675	0.3636 0.3819	0.3741 0.3737	0.3640 0.3846	Ave		0.3742				3.4		15.0			
1,3-Dichloropropane	0.3465 0.3685	0.3428 0.3633	0.3606 0.3797	0.3680 0.3764	0.3581 0.3767	Ave		0.3641				3.4		15.0			
2-Hexanone	0.0496 0.0560	0.0473 0.0554	0.0506 0.0573	0.0522 0.0576	0.0528 0.0576	Ave		0.0536				6.9		15.0			
n-Butyl acetate	+++++ 0.1556	0.1684 0.1452	0.1674 0.1508	0.1601 0.1597	0.1394 0.1649	Ave		0.1568				6.4		15.0			
Chlorodibromomethane	+++++ 0.2100	0.2011 0.2082	0.1971 0.2197	0.2030 0.2195	0.2041 0.2225	Ave		0.2095				4.4		15.0			
1,2-Dibromoethane (EDB)	0.2057 0.2052	0.1991 0.2044	0.2034 0.2134	0.2098 0.2101	0.2037 0.2101	Ave		0.2065				2.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 188769

SDG No.:

Instrument ID: HP48 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/05/2014 13:38 Calibration End Date: 09/05/2014 18:22 Calibration ID: 32670

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1-Chlorohexane	0.3265 0.3395	0.3014 0.3481	0.3165 0.3754	0.3323 0.3950	0.3272 0.4343	Ave		0.3496				12.0		15.0			
Chlorobenzene	0.9402 0.8866	0.8505 0.8717	0.8748 0.9266	0.9004 0.9324	0.8587 0.9426	Ave		0.8984			0.3000	3.9		15.0			
Ethylbenzene	1.4178 1.4201	1.3045 1.4436	1.3532 1.5609	1.3993 1.6124	1.3688 1.5749	Ave		1.4455				7.1		15.0			
1,1,1,2-Tetrachloroethane	0.3152 0.3081	0.2881 0.3101	0.3153 0.3338	0.3108 0.3398	0.3076 0.3487	Ave		0.3177				5.6		15.0			
m,p-Xylene	1.0960 1.1053	1.0098 1.1227	1.0465 1.2013	1.0878 1.2172	1.0515 1.2365	Ave		1.1175				6.9		15.0			
o-Xylene	1.1511 1.1482	1.0452 1.1901	1.0526 1.2806	1.0291 1.3023	1.0626 1.3114	Ave		1.1573				9.6		15.0			
Styrene	0.9514 1.0139	0.8628 1.0276	0.8759 1.1038	0.9282 1.1249	0.9556 1.1132	Ave		0.9957				9.7		15.0			
Bromoform	+++++ 0.1824	0.1556 0.1844	0.1670 0.1981	0.1775 0.2005	0.1742 0.2006	Ave		0.1823			0.1000	8.6		15.0			
Isopropylbenzene	+++++ 1.4238	1.0345 1.5176	1.0743 1.6617	1.2177 1.6964	1.2727 1.6236	Lin1	-1.183	1.6394							0.9980		0.9900
Cyclohexanone	+++++ 0.0037	0.0041 0.0036	0.0035 0.0042	0.0035 0.0039	0.0034 0.0038	Ave		0.0037				7.3		15.0			
Bromobenzene	0.8181 0.8430	0.8116 0.8450	0.8480 0.8878	0.8158 0.9162	0.8102 0.9959	Ave		0.8591				6.9		15.0			
1,1,2,2-Tetrachloroethane	0.3941 0.3778	0.3584 0.3725	0.3796 0.3857	0.3696 0.3905	0.3689 0.4060	Ave		0.3803			0.3000	3.7		15.0			
1,2,3-Trichloropropane	0.0748 0.1141	0.0920 0.1100	0.1129 0.1145	0.1095 0.1177	0.1064 0.1221	Ave		0.1074				13.0		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1006	0.0786 0.1045	0.0843 0.1123	0.0933 0.1170	0.0928 0.1250	Ave		0.1009				15.0		15.0			
N-Propylbenzene	2.3020 2.8241	2.1568 2.8627	2.2591 3.0345	2.5697 3.1024	2.6022 2.9514	Ave		2.6665				13.0		15.0			
2-Chlorotoluene	1.3661 1.6124	1.3037 1.6196	1.3671 1.7071	1.5228 1.7480	1.5149 1.8392	Ave		1.5601				11.0		15.0			
1,3,5-Trimethylbenzene	+++++ 2.0609	1.3873 2.1105	1.5529 2.2290	1.8392 2.2752	1.9283 2.3051	Lin2	-0.882	2.1504							0.9960		0.9900
4-Chlorotoluene	1.4311 1.7828	1.4135 1.7813	1.5149 1.8814	1.7076 1.8958	1.7077 1.9798	Ave		1.7096				12.0		15.0			
tert-Butylbenzene	+++++ 1.7117	1.1748 1.7862	1.2444 1.9715	1.4578 +++++	1.5427 +++++	Lin2	-0.677	1.7375							0.9900		0.9900
1,2,4-Trimethylbenzene	+++++ 2.1591	1.3826 2.2098	1.5930 2.3114	1.9511 2.3612	2.0219 2.3212	Lin2	-0.966	2.2371							0.9970		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 188769

SDG No.:

Instrument ID: HP48 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/05/2014 13:38 Calibration End Date: 09/05/2014 18:22 Calibration ID: 32670

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
sec-Butylbenzene	+++++ 2.5993	1.7499 2.6970	1.8929 2.9251	2.2930 2.9183	2.3592 2.8222	Lin2	-1.149	2.7139							0.9940		0.9900
p-Isopropyltoluene	+++++ 2.4571	1.4881 2.5507	1.6750 2.7413	2.0731 2.7894	2.1932 2.6772	Lin2	-1.266	2.5593							0.9920		0.9900
1,3-Dichlorobenzene	1.2480 1.3980	1.2027 1.3769	1.2751 1.4422	1.3774 1.4781	1.3279 1.4675	Ave		1.3594				6.9		15.0			
1,4-Dichlorobenzene	1.5194 1.4178	1.3793 1.4232	1.4221 1.4469	1.4016 1.4698	1.3524 1.4773	Ave		1.4310				3.4		15.0			
1,2,3-Trimethylbenzene	1.8934 2.2441	1.8205 2.2530	1.9096 2.3894	2.0866 2.4043	2.1085 2.3717	Ave		2.1481				10.0		15.0			
Benzyl chloride	+++++ 0.4759	0.4037 0.4947	0.4138 0.5261	0.4355 0.5182	0.4404 0.4804	Ave		0.4654				9.5		15.0			
n-Butylbenzene	+++++ 2.1111	1.3737 2.1899	1.5488 2.3024	1.8299 2.3093	1.9174 2.2452	Lin2	-0.930	2.1759							0.9950		0.9900
1,2-Dichlorobenzene	1.2129 1.2560	1.1261 1.2340	1.1669 1.2788	1.2146 1.2842	1.1909 1.2709	Ave		1.2235				4.2		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0785	0.0534 0.0806	0.0666 0.0841	0.0720 0.0833	0.0747 0.0847	Ave		0.0753				14.0		15.0			
1,3,5-Trichlorobenzene	0.9266 1.0527	0.8770 1.0853	0.8784 1.1357	0.9304 1.1099	0.9437 1.1384	Ave		1.0078				11.0		15.0			
1,2,4-Trichlorobenzene	+++++ 0.7752	0.5510 0.8210	0.6074 0.8793	0.6393 0.8702	0.6688 +++++	Lin1	-0.579	0.8629							0.9980		0.9900
Hexachlorobutadiene	+++++ 0.4970	0.4652 0.4986	0.4434 0.5283	0.4511 0.5055	0.4589 0.5345	Ave		0.4870				6.9		15.0			
Naphthalene	+++++ 1.1240	+++++ 1.2237	0.7141 1.3078	0.8232 1.2918	0.9094 1.2957	Lin1	-1.902	1.2972							0.9990		0.9900
1,2,3-Trichlorobenzene	0.5118 0.6379	0.4556 0.6605	0.4927 0.6912	0.5221 0.6863	0.5649 0.6890	Ave		0.5912				15.0		15.0			
Dibromofluoromethane (Surr)	0.2617 0.2556	0.2636 0.2592	0.2611 0.2573	0.2577 0.2609	0.2617 0.2612	Ave		0.2600				1.0		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2443 0.2395	0.2454 0.2371	0.2458 0.2401	0.2453 0.2527	0.2523 0.2849	Ave		0.2487				5.5		15.0			
Toluene-d8 (Surr)	1.2284 1.2041	1.2164 1.2064	1.1862 1.1952	1.2011 1.1641	1.2159 1.1502	Ave		1.1968				2.0		15.0			
4-Bromofluorobenzene (Surr)	0.7279 0.7222	0.7183 0.7273	0.7043 0.7411	0.7092 0.7508	0.7085 0.7893	Ave		0.7299				3.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 188769

SDG No.:

Instrument ID: HP48 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/05/2014 13:38 Calibration End Date: 09/05/2014 18:22 Calibration ID: 32670

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-188769/2	09051409.D
Level 2	STD001 490-188769/3	09051410.D
Level 3	STD002 490-188769/4	09051411.D
Level 4	STD005 490-188769/5	09051412.D
Level 5	STD010 490-188769/6	09051413.D
Level 6	STD020 490-188769/7	09051414.D
Level 7	ICIS 490-188769/8	09051415.D
Level 8	STD100 490-188769/10	09051417.D
Level 9	STD200 490-188769/11	09051418.D
Level 10	STD400 490-188769/12	09051419.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dichlorodifluoromethane	FB	Ave	2616 113877	4629 293985	10240 610869	28127 1193842	55013 2621170	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Chloromethane	FB	Ave	2701 117109	5606 289561	11799 651660	29176 1362970	57785 3103450	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Vinyl chloride	FB	Ave	2855 112722	4982 292821	10319 635378	27666 1280957	54589 2822511	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Butadiene	FB	Ave	1873 96982	3786 263224	7674 571560	22574 1151240	45652 2531063	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Bromomethane	FB	Lin1	+++++ 53141	1926 155820	3858 390814	10651 753718	22913 1441747	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Chloroethane	FB	Ave	1611 71195	3322 184900	6752 398046	17780 804849	34290 1671595	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Dichlorofluoromethane	FB	Ave	4154 170763	8342 435640	15542 939383	42006 1927796	81637 4156692	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Trichlorofluoromethane	FB	Ave	3335 152924	6838 398525	13948 855961	39075 1707594	72807 3701119	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Ethanol	FB	Ave	+++++ 11897	566 28446	1198 59104	2882 118627	5426 +++++	+++++ 1000	50.0 2500	100 5000	250 10000	500 +++++
Diethyl ether	FB	Ave	1410 60298	2963 152897	5753 353308	14581 728172	29819 1519706	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Acrolein	FB	Lin2	+++++ 14964	314 40820	1288 89198	3508 182634	6941 391364	+++++ 50.0	2.50 125	5.00 250	12.5 500	25.0 1000
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	2352 90001	4546 228343	8123 495652	22093 1028214	43957 2267548	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1-Dichloroethene	FB	Ave	1988 89669	3874 222078	8146 494381	21348 1005641	42364 2170836	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Acetone	FB	Ave	+++++ 24643	1043 55485	2079 118292	5742 247004	11408 513130	+++++ 100	5.00 250	10.0 500	25.0 1000	50.0 2000

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 188769

SDG No.:

Instrument ID: HP48 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/05/2014 13:38 Calibration End Date: 09/05/2014 18:22 Calibration ID: 32670

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Iodomethane	FB	Lin2	1768 113037	3887 293945	8259 674534	22894 1257999	48244 2575410	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Isopropyl alcohol	FB	Ave	490 25292	1179 57658	2211 131009	6698 271318	12132 554324	5.00 200	10.0 500	20.0 1000	50.0 2000	100 4000
Carbon disulfide	FB	Ave	7841 259831	13281 671420	26643 1422102	65663 2939405	130493 6182828	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
3-Chloro-1-propene	FB	Ave	1905 72936	3303 190780	6867 409557	17911 827224	36232 1927781	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Acetonitrile	FB	Ave	5867 217370	10345 541660	21015 1170471	52153 2307419	106099 4858425	5.00 200	10.0 500	20.0 1000	50.0 2000	100 4000
Methyl acetate	FB	Ave	7453 264106	12713 637195	27463 1356573	63438 2863314	123859 5853502	2.50 100	5.00 250	10.0 500	25.0 1000	50.0 2000
Methylene Chloride	FB	Ave	3020 97944	5116 251997	9907 537994	24718 1100092	48400 2331073	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
tert-Butyl alcohol (TBA)	FB	Ave	+++++ 37852	1313 96364	3341 207133	9372 423206	18673 1021514	+++++ 200	10.0 500	20.0 1000	50.0 2000	100 4000
Methyl tert-butyl ether	FB	Ave	4606 188927	8703 497360	18138 1077637	47186 2243465	92273 4743193	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
trans-1,2-Dichloroethene	FB	Ave	3027 127110	5766 334216	11874 725267	31319 1526917	61560 3320180	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Acrylonitrile	FB	Ave	5012 206451	9979 513526	19838 1138445	50953 2380462	99238 5093209	5.00 200	10.0 500	20.0 1000	50.0 2000	100 4000
Hexane	FB	Ave	3825 138077	6682 359899	12797 740867	34348 1524308	66756 3313020	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Diisopropyl ether	FB	Ave	7221 282071	12969 730767	26935 1590184	67733 3340085	134543 7107123	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1-Dichloroethane	FB	Ave	4237 179620	7362 468761	17401 1009384	44791 2095086	87374 4524709	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Vinyl acetate	FB	Ave	7741 280920	14335 760389	29046 1607643	70366 3327403	140334 7037953	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0 800
Chloroprene	FB	Ave	3353 135159	6355 357476	12625 775054	33702 1574426	65285 3436066	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Ethyl tert-butyl ether	FB	Ave	5488 241410	10309 626441	22264 1360599	57090 2847638	114109 6142427	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
2,2-Dichloropropane	FB	Ave	3884 132273	7226 343685	13158 728167	34748 1479465	65899 3179266	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
cis-1,2-Dichloroethene	FB	Ave	3596 159752	7212 416381	15680 906417	39078 1882884	77226 4075290	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
2-Butanone (MEK)	FB	Ave	509 31614	1252 79292	2735 170555	7425 344861	14659 752608	2.50 100	5.00 250	10.0 500	25.0 1000	50.0 2000
Ethyl acetate	FB	Ave	5491 178270	9598 457338	17955 964110	44782 1992577	86952 4275108	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0 800

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 188769

SDG No.:

Instrument ID: HP48 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/05/2014 13:38 Calibration End Date: 09/05/2014 18:22 Calibration ID: 32670

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Propionitrile	FB	Ave	2052 79059	3172 199478	7282 420941	19191 851652	38608 1814869	5.00 200	10.0 500	20.0 1000	50.0 2000	100 4000
Methacrylonitrile	FB	Ave	8592 352690	16267 912494	33487 1958633	84730 4199026	168439 9345642	5.00 200	10.0 500	20.0 1000	50.0 2000	100 4000
Bromochloromethane	FB	Ave	+++++ 65940	2930 166003	6496 363646	16550 761140	32659 1629761	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Tetrahydrofuran	FB	Ave	+++++ 32139	1359 78570	3234 169469	6568 352093	15571 800197	+++++ 40.0	2.00 100	4.00 200	10.0 400	20.0 800
Chloroform	FB	Ave	5050 170993	8520 436412	16998 938418	43412 1932090	84371 4183687	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1,1-Trichloroethane	FB	Ave	3614 138916	6870 357023	13348 760422	34753 1576815	66385 3549281	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Cyclohexane	FB	Ave	4018 160050	7580 432355	14699 925378	40442 1881351	76936 4196975	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1-Dichloropropene	FB	Ave	2975 119529	5394 311626	11000 676349	29267 1407022	57575 3105973	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Carbon tetrachloride	FB	Ave	3352 125452	5927 330256	12340 710235	30820 1460605	61261 3250942	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Isobutanol	FB	Ave	1249 45023	2301 113084	4557 261179	12287 548186	23234 1056018	5.00 200	10.0 500	20.0 1000	50.0 2000	100 4000
t-Amyl alcohol	FB	Ave	+++++ 34237	1509 76581	3224 179226	7284 383972	16600 845767	+++++ 200	10.0 500	20.0 1000	50.0 2000	100 4000
Benzene	FB	Ave	10214 394541	18796 1023343	38553 2197983	99530 4608736	193044 9989341	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2-Dichloroethane	FB	Ave	2678 114210	5038 288744	11279 621786	25015 1284727	54053 2805274	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Tert-amyl methyl ether	FB	Ave	5167 223837	10051 579389	20782 1256587	51650 2621484	100955 5850578	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Heptane	FB	Ave	3520 136077	7068 366109	13125 768196	33834 1594681	67965 3505195	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
n-Butanol	FB	Ave	654 31502	1349 81340	2877 173697	7698 350212	15609 743429	12.5 500	25.0 1250	50.0 2500	125 5000	250 10000
Trichloroethene	FB	Ave	2692 112816	5289 290125	10650 626330	27717 1296478	53403 2814494	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Ethyl acrylate	FB	Ave	3420 130427	6082 351635	12201 729658	32612 1501042	63514 3401474	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Methylcyclohexane	FB	Ave	4112 171647	7829 454938	15704 971334	42124 1992360	79851 4471441	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2-Dichloropropane	FB	Ave	2532 97781	4368 254806	9846 548507	24349 1142070	47224 2492968	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Methyl methacrylate	FB	Ave	2947 110348	4729 297517	10253 629751	27401 1330505	50606 2815911	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0 800

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 188769

SDG No.:

Instrument ID: HP48 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/05/2014 13:38 Calibration End Date: 09/05/2014 18:22 Calibration ID: 32670

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dibromomethane	FB	Ave	1119 48224	2098 121581	4968 257822	12621 518958	23583 1099895	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,4-Dioxane	FB	Ave	+++++ 10394	+++++ 27855	692 60117	2306 114749	4121 255995	+++++ 400	+++++ 1000	40.0 2000	100 4000	200 8000
Bromodichloromethane	FB	Ave	2946 128764	6036 332270	12391 715837	31259 1491346	62285 3277144	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
2-Nitropropane	FB	Ave	+++++ 62060	3084 159840	6171 350259	14650 742072	29383 1616002	+++++ 40.0	2.00 100	4.00 200	10.0 400	20.0 800
2-Chloroethyl vinyl ether	CBZ	Ave	914 45460	1862 118399	3931 258131	10499 544260	20401 1195059	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
cis-1,3-Dichloropropene	CBZ	Ave	3697 150857	6721 398945	14086 854531	35433 1817818	72355 4028386	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	2431 106329	4532 275412	9306 589969	23894 1262366	49356 2816322	2.50 100	5.00 250	10.0 500	25.0 1000	50.0 2000
Toluene	CBZ	Ave	11742 433138	20219 1141513	41913 2458881	106104 5239044	210097 11386369	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
trans-1,3-Dichloropropene	CBZ	Ave	2665 117757	5424 312728	11160 684494	28441 1479542	56320 3268017	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Ethyl methacrylate	CBZ	Ave	1995 87770	3894 233070	7711 506362	19111 1098031	40604 2431960	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1,2-Trichloroethane	CBZ	Ave	1744 75081	3505 190280	7484 408644	18311 856658	36015 1889742	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Tetrachloroethene	CBZ	Ave	3450 129791	6272 337917	12614 727074	32427 1534070	63281 3460497	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,3-Dichloropropane	CBZ	Ave	2965 130285	5934 334118	12513 722976	31901 1545067	62258 3389350	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
2-Hexanone	CBZ	Ave	2123 98994	4090 254525	8784 545509	22641 1182472	45914 2590567	2.50 100	5.00 250	10.0 500	25.0 1000	50.0 2000
n-Butyl acetate	FB	Ave	+++++ 65377	3454 158451	6841 337453	16452 737711	28767 1601274	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Chlorodibromomethane	CBZ	Ave	+++++ 74257	3481 191495	6839 418386	17601 901204	35487 2002101	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2-Dibromoethane (EDB)	CBZ	Ave	1760 72565	3447 187946	7057 406298	18187 862418	35420 1890373	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1-Chlorohexane	FB	Ave	3339 142624	6184 379753	12931 840103	34156 1824633	67533 4216656	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Chlorobenzene	CBZ	Ave	8046 313490	14722 801605	30354 1764325	78051 3827579	149285 8481364	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Ethylbenzene	CBZ	Ave	12133 502095	22581 1327529	46950 2972056	121303 6618983	237971 14170863	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1,1,2-Tetrachloroethane	CBZ	Ave	2697 108932	4988 285211	10939 635518	26946 1394879	53475 3137441	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 188769

SDG No.:

Instrument ID: HP48 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/05/2014 13:38 Calibration End Date: 09/05/2014 18:22 Calibration ID: 32670

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
m,p-Xylene	CBZ	Ave	9379 390818	17480 1032479	36309 2287344	94295 4996371	182811 11125844	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
o-Xylene	CBZ	Ave	9851 405990	18093 1094405	36523 2438300	89214 5345854	184736 11799993	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Styrene	CBZ	Ave	8142 358479	14936 945016	30392 2101755	80460 4617843	166130 10016355	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Bromoform	CBZ	Ave	+++++ 64502	2693 169616	5793 377219	15390 823112	30283 1805334	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Isopropylbenzene	CBZ	Lin1	+++++ 503420	17907 1395582	37273 3163886	105558 6963527	221261 14608948	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Cyclohexanone	FB	Ave	+++++ 15377	845 38986	1432 93350	3631 179854	7027 366799	+++++ 200	10.0 500	20.0 1000	50.0 2000	100 4000
Bromobenzene	DCB	Ave	4245 194632	8658 517312	18542 1143355	45622 2487012	92639 5570249	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1,2,2-Tetrachloroethane	DCB	Ave	2045 87241	3823 228031	8300 496663	20672 1060028	42183 2270613	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2,3-Trichloropropane	DCB	Ave	388 26351	981 67358	2468 147438	6124 319485	12164 683215	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 23221	838 63947	1844 144573	5216 317468	10607 699368	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
N-Propylbenzene	DCB	Ave	11945 652070	23009 1752537	49398 3907877	143713 8421255	297531 16507972	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
2-Chlorotoluene	DCB	Ave	7089 372300	13908 991532	29892 2198345	85162 4744938	173216 10287037	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,3,5-Trimethylbenzene	DCB	Lin2	+++++ 475848	14800 1292025	33955 2870550	102856 6176070	220485 12893056	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
4-Chlorotoluene	DCB	Ave	7426 411637	15079 1090491	33125 2422925	95500 5145995	195257 11073395	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
tert-Butylbenzene	DCB	Lin2	+++++ 395214	12533 1093513	27210 2538852	81531 +++++	176398 +++++	+++++ 20.0	1.00 50.0	2.00 100	5.00 +++++	10.0 +++++
1,2,4-Trimethylbenzene	DCB	Lin2	+++++ 498528	14749 1352836	34833 2976583	109116 6409500	231179 12983212	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
sec-Butylbenzene	DCB	Lin2	+++++ 600171	18668 1651085	41390 3766926	128238 7921753	269751 15785519	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
p-Isopropyltoluene	DCB	Lin2	+++++ 567322	15875 1561538	36626 3530203	115941 7571717	250766 14974549	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,3-Dichlorobenzene	DCB	Ave	6476 322795	12830 842950	27882 1857327	77031 4012211	151833 8208407	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,4-Dichlorobenzene	DCB	Ave	7884 327370	14714 871313	31095 1863275	78384 3989707	154639 8262868	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2,3-Trimethylbenzene	DCB	Ave	9825 518150	19421 1379286	41755 3077096	116693 6526420	241081 13265557	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 188769

SDG No.:

Instrument ID: HP48 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/05/2014 13:38 Calibration End Date: 09/05/2014 18:22 Calibration ID: 32670

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Benzyl chloride	CBZ	Ave	+++++ 168265	6988 454926	14359 1001780	37749 2127202	76562 4322395	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
n-Butylbenzene	DCB	Lin2	+++++ 487449	14655 1340635	33867 2964975	102337 6268613	219238 12558009	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2-Dichlorobenzene	DCB	Ave	6294 290012	12013 755451	25516 1646849	67928 3485891	136171 7108612	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2-Dibromo-3-Chloropropane	DCB	Ave	+++++ 18114	570 49326	1457 108278	4029 226064	8542 473885	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,3,5-Trichlorobenzene	DCB	Ave	4808 243058	9356 664411	19208 1462602	52032 3012789	107901 6367529	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2,4-Trichlorobenzene	DCB	Lin1	+++++ 178978	5878 502616	13282 1132421	35756 2362162	76475 +++++	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
Hexachlorobutadiene	DCB	Ave	+++++ 114764	4963 305244	9696 680377	25228 1372181	52470 2989599	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Naphthalene	DCB	Lin1	+++++ 259531	+++++ 749132	15615 1684161	46037 3506610	103985 7247056	+++++ 20.0	+++++ 50.0	2.00 100	5.00 200	10.0 400
1,2,3-Trichlorobenzene	DCB	Ave	2656 147289	4860 404344	10774 890114	29201 1863031	64592 3853824	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Dibromofluoromethane (Surr)	FB	Ave	133813 134216	135178 141396	133341 143945	132430 150654	135024 158509	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	124922 125768	125878 129305	125529 134363	126063 145951	130163 172888	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0
Toluene-d8 (Surr)	CBZ	Ave	525601 532183	526436 554708	514480 568944	520581 597331	528481 646855	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0
4-Bromofluorobenzene (Surr)	DCB	Ave	188849 208425	191579 222622	192499 238593	198310 254754	202526 275914	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: ICV 490-188769/9 Calibration Date: 09/05/2014 16:57

Instrument ID: HP48 Calib Start Date: 09/05/2014 13:38

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/05/2014 18:22

Lab File ID: 09051416.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2614	0.2763		52.9	50.0	5.7	30.0
Chloromethane	Ave	0.2840	0.2928	0.1000	51.6	50.0	3.1	30.0
Vinyl chloride	Ave	0.2697	0.2769		51.3	50.0	2.7	30.0
Butadiene	Ave	0.2234	0.2408		53.9	50.0	7.8	30.0
Bromomethane	Lin1		0.1616		52.9	50.0	5.8	30.0
Chloroethane	Ave	0.1687	0.1749		51.8	50.0	3.7	30.0
Dichlorofluoromethane	Ave	0.4068	0.4183		51.4	50.0	2.8	30.0
Trichlorofluoromethane	Ave	0.3596	0.3657		50.8	50.0	1.7	30.0
Ethanol	Ave	0.0005	0.0006		2790	2500	11.6	30.0
Diethyl ether	Ave	0.1465	0.1480		50.5	50.0	1.0	30.0
Acrolein	Lin2		0.0173		141	125	12.5	30.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2179	0.2123		48.7	50.0	-2.6	30.0
1,1-Dichloroethene	Ave	0.2075	0.2115		51.0	50.0	2.0	30.0
Acetone	Ave	0.0107	0.0108		251	250	0.5	30.0
Iodomethane	Lin2		0.3012		58.0	50.0	15.9	30.0
Isopropyl alcohol	Ave	0.0057	0.0060		527	500	5.4	30.0
Carbon disulfide	Ave	0.6480	0.6582		50.8	50.0	1.6	30.0
3-Chloro-1-propene	Ave	0.1774	0.1819		51.3	50.0	2.5	30.0
Acetonitrile	Ave	0.0515	0.0500		486	500	-2.9	30.0
Methyl acetate	Ave	0.1256	0.1144		228	250	-8.9	30.0
Methylene Chloride	Ave	0.2445	0.2470		50.5	50.0	1.0	30.0
tert-Butyl alcohol (TBA)	Ave	0.0088	0.0095		540	500	8.0	30.0
Methyl tert-butyl ether	Ave	0.4586	0.4849		52.9	50.0	5.7	30.0
trans-1,2-Dichloroethene	Ave	0.3076	0.3404		55.3	50.0	10.7	30.0
Acrylonitrile	Ave	0.0495	0.0500		505	500	0.9	30.0
Hexane	Ave	0.3331	0.3483		52.3	50.0	4.5	30.0
Diisopropyl ether	Ave	0.6815	0.7174		52.6	50.0	5.3	30.0
1,1-Dichloroethane	Ave	0.4286	0.4729	0.1000	55.2	50.0	10.3	30.0
Vinyl acetate	Ave	0.3530	0.4577		130	100	29.6	30.0
Chloroprene	Ave	0.3281	0.3416		52.1	50.0	4.1	30.0
Ethyl tert-butyl ether	Ave	0.5698	0.6007		52.7	50.0	5.4	30.0
2,2-Dichloropropane	Ave	0.3314	0.3308		49.9	50.0	-0.2	30.0
cis-1,2-Dichloroethene	Ave	0.3836	0.4141		54.0	50.0	7.9	30.0
2-Butanone (MEK)	Ave	0.0139	0.0153		275	250	9.8	30.0
Ethyl acetate	Ave	0.2224	0.2142		96.3	100	-3.7	30.0
Propionitrile	Ave	0.0184	0.0191		519	500	3.8	30.0
Methacrylonitrile	Ave	0.0852	0.0851		500	500	-0.1	30.0
Bromochloromethane	Ave	0.1584	0.1635		51.6	50.0	3.2	30.0
Chloroform	Ave	0.4232	0.4361		51.5	50.0	3.1	30.0
Tetrahydrofuran	Ave	0.0371	0.0381		103	100	2.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: ICV 490-188769/9 Calibration Date: 09/05/2014 16:57

Instrument ID: HP48 Calib Start Date: 09/05/2014 13:38

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/05/2014 18:22

Lab File ID: 09051416.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.3379	0.3475		51.4	50.0	2.8	30.0
Cyclohexane	Ave	0.3919	0.4046		51.6	50.0	3.2	30.0
1,1-Dichloropropene	Ave	0.2884	0.3340		57.9	50.0	15.8	30.0
Carbon tetrachloride	Ave	0.3085	0.3308		53.6	50.0	7.2	30.0
Isobutanol	Ave	0.0113	0.0115		507	500	1.3	30.0
t-Amyl alcohol	Ave	0.0078	0.0081		513	500	2.6	30.0
Benzene	Ave	0.9648	1.011		52.4	50.0	4.8	30.0
1,2-Dichloroethane	Ave	0.2670	0.2836		53.1	50.0	6.2	30.0
Tert-amyl methyl ether	Ave	0.5291	0.5544		52.4	50.0	4.8	30.0
Heptane	Ave	0.3377	0.3556		52.7	50.0	5.3	30.0
n-Butanol	Ave	0.0029	0.0032		1388	1250	11.0	30.0
Trichloroethene	Ave	0.2695	0.2940		54.5	50.0	9.1	30.0
Ethyl acrylate	Ave	0.3189	0.3364		52.8	50.0	5.5	
Methylcyclohexane	Ave	0.4116	0.4363		53.0	50.0	6.0	30.0
1,2-Dichloropropane	Ave	0.2383	0.2475		52.0	50.0	3.9	30.0
Methyl methacrylate	Ave	0.1338	0.1358		102	100	1.5	30.0
Dibromomethane	Ave	0.1137	0.1185		52.1	50.0	4.2	30.0
1,4-Dioxane	Ave	0.0012	0.0014		1156	1000	15.6	30.0
Bromodichloromethane	Ave	0.3083	0.3212		52.1	50.0	4.2	30.0
2-Chloroethyl vinyl ether	Ave	0.1224	0.3287		134	50.0	168.4*	30.0
2-Nitropropane	Ave	0.0758	0.1298		171	100	71.2*	30.0
cis-1,3-Dichloropropene	Ave	0.4251	0.4715		55.5	50.0	10.9	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0581	0.0616		265	250	6.1	30.0
Toluene	Ave	1.248	1.344		53.9	50.0	7.7	30.0
trans-1,3-Dichloropropene	Ave	0.3355	0.4031		60.1	50.0	20.2	30.0
Ethyl methacrylate	Ave	0.2440	0.2701		55.4	50.0	10.7	30.0
1,1,2-Trichloroethane	Ave	0.2093	0.2215		52.9	50.0	5.8	30.0
Tetrachloroethene	Ave	0.3742	0.3969		53.0	50.0	6.1	30.0
1,3-Dichloropropane	Ave	0.3641	0.3840		52.7	50.0	5.5	30.0
2-Hexanone	Ave	0.0536	0.0578		269	250	7.7	30.0
n-Butyl acetate	Ave	0.1568	0.1471		46.9	50.0	-6.2	30.0
Chlorodibromomethane	Ave	0.2095	0.2244		53.6	50.0	7.1	30.0
1,2-Dibromoethane (EDB)	Ave	0.2065	0.2178		52.8	50.0	5.5	30.0
1-Chlorohexane	Ave	0.3496	0.3756		53.7	50.0	7.4	30.0
Chlorobenzene	Ave	0.8984	0.9419	0.3000	52.4	50.0	4.8	30.0
Ethylbenzene	Ave	1.446	1.567		54.2	50.0	8.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3177	0.3389		53.3	50.0	6.7	30.0
m,p-Xylene	Ave	1.117	1.219		54.5	50.0	9.1	30.0
o-Xylene	Ave	1.157	1.303		56.3	50.0	12.6	30.0
Styrene	Ave	0.996	1.098		55.2	50.0	10.3	30.0
Bromoform	Ave	0.1823	0.1989	0.1000	54.6	50.0	9.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: ICV 490-188769/9 Calibration Date: 09/05/2014 16:57

Instrument ID: HP48 Calib Start Date: 09/05/2014 13:38

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/05/2014 18:22

Lab File ID: 09051416.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Lin1		1.669		51.6	50.0	3.2	30.0
Cyclohexanone	Ave	0.0037	0.0115		1540	500	208.0*	30.0
Bromobenzene	Ave	0.8591	0.9055		52.7	50.0	5.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3803	0.3924	0.3000	51.6	50.0	3.2	30.0
1,2,3-Trichloropropane	Ave	0.1074	0.1186		55.2	50.0	10.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1009	0.1127		55.8	50.0	11.7	30.0
N-Propylbenzene	Ave	2.666	3.069		57.6	50.0	15.1	30.0
2-Chlorotoluene	Ave	1.560	1.732		55.5	50.0	11.0	30.0
1,3,5-Trimethylbenzene	Lin2		2.282		53.5	50.0	6.9	30.0
4-Chlorotoluene	Ave	1.710	1.908		55.8	50.0	11.6	30.0
tert-Butylbenzene	Lin2		1.943		56.3	50.0	12.6	30.0
1,2,4-Trimethylbenzene	Lin2		2.332		52.6	50.0	5.1	30.0
sec-Butylbenzene	Lin2		2.924		54.3	50.0	8.6	30.0
p-Isopropyltoluene	Lin2		2.712		53.5	50.0	6.9	30.0
1,3-Dichlorobenzene	Ave	1.359	1.477		54.3	50.0	8.7	30.0
1,4-Dichlorobenzene	Ave	1.431	1.532		53.5	50.0	7.0	30.0
1,2,3-Trimethylbenzene	Ave	2.148	2.340		54.5	50.0	8.9	30.0
Benzyl chloride	Ave	0.4654	0.5167		55.5	50.0	11.0	30.0
n-Butylbenzene	Lin2		2.327		53.9	50.0	7.8	30.0
1,2-Dichlorobenzene	Ave	1.224	1.321		54.0	50.0	8.0	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0753	0.0886		58.8	50.0	17.6	30.0
1,3,5-Trichlorobenzene	Ave	1.008	1.132		56.2	50.0	12.3	30.0
1,2,4-Trichlorobenzene	Lin1		0.8993		52.8	50.0	5.6	30.0
Hexachlorobutadiene	Ave	0.4870	0.5498		56.5	50.0	12.9	30.0
Naphthalene	Lin1		1.378		54.6	50.0	9.1	30.0
1,2,3-Trichlorobenzene	Ave	0.5912	0.7270		61.5	50.0	23.0	30.0
Dibromofluoromethane (Surr)	Ave	0.2600	0.2602		25.0	25.0	0.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2487	0.2431		24.4	25.0	-2.3	30.0
Toluene-d8 (Surr)	Ave	1.197	1.203		25.1	25.0	0.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7299	0.7348		25.2	25.0	0.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCVIS 490-240119/2 Calibration Date: 04/09/2015 12:09

Instrument ID: HP48 Calib Start Date: 09/05/2014 13:38

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/05/2014 18:22

Lab File ID: 04091502.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2614	0.2308		44.1	50.0	-11.7	20.0
Chloromethane	Ave	0.2840	0.2778	0.1000	48.9	50.0	-2.2	20.0
Vinyl chloride	Ave	0.2697	0.2727		50.6	50.0	1.1	20.0
Butadiene	Ave	0.2234	0.2483		55.6	50.0	11.1	20.0
Bromomethane	Lin1		0.1576		51.6	50.0	3.2	20.0
Chloroethane	Ave	0.1687	0.1704		50.5	50.0	1.0	20.0
Dichlorofluoromethane	Ave	0.4068	0.3961		48.7	50.0	-2.6	20.0
Trichlorofluoromethane	Ave	0.3596	0.3970		55.2	50.0	10.4	20.0
Ethanol	Ave	0.0005	0.0004		1513	2000	-24.3	40.0
Diethyl ether	Ave	0.1465	0.1499		51.2	50.0	2.3	20.0
Acrolein	Lin2		0.0123		101	125	-19.6	40.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2179	0.2276		52.2	50.0	4.4	20.0
1,1-Dichloroethene	Ave	0.2075	0.2133		51.4	50.0	2.8	20.0
Acetone	Ave	0.0107	0.0091		212	250	-15.4	20.0
Iodomethane	Lin2		0.3025		58.2	50.0	16.4	20.0
Isopropyl alcohol	Ave	0.0057	0.0044		388	500	-22.4*	20.0
Carbon disulfide	Ave	0.6480	0.6414		49.5	50.0	-1.0	20.0
3-Chloro-1-propene	Ave	0.1774	0.1875		52.8	50.0	5.7	20.0
Acetonitrile	Ave	0.0515	0.0428		416	500	-16.9	20.0
Methyl acetate	Ave	0.1256	0.0874		174	250	-30.4*	20.0
Methylene Chloride	Ave	0.2445	0.2373		48.5	50.0	-2.9	20.0
tert-Butyl alcohol (TBA)	Ave	0.0088	0.0066		376	500	-24.9	40.0
Methyl tert-butyl ether	Ave	0.4586	0.4187		45.7	50.0	-8.7	20.0
trans-1,2-Dichloroethene	Ave	0.3076	0.2971		48.3	50.0	-3.4	20.0
Acrylonitrile	Ave	0.0495	0.0434		438	500	-12.4	20.0
Hexane	Ave	0.3331	0.3295		49.5	50.0	-1.1	20.0
Diisopropyl ether	Ave	0.6815	0.6762		49.6	50.0	-0.8	20.0
1,1-Dichloroethane	Ave	0.4286	0.4371	0.1000	51.0	50.0	2.0	20.0
Vinyl acetate	Ave	0.3530	0.4539		129	100	28.6	40.0
Chloroprene	Ave	0.3281	0.3433		52.3	50.0	4.6	20.0
Ethyl tert-butyl ether	Ave	0.5698	0.5598		49.1	50.0	-1.8	20.0
2,2-Dichloropropane	Ave	0.3314	0.3176		47.9	50.0	-4.2	20.0
cis-1,2-Dichloroethene	Ave	0.3836	0.4015		52.3	50.0	4.7	20.0
2-Butanone (MEK)	Ave	0.0139	0.0125		225	250	-10.2	20.0
Ethyl acetate	Ave	0.2224	0.2133		95.9	100	-4.1	20.0
Propionitrile	Ave	0.0184	0.0159		434	500	-13.3	20.0
Methacrylonitrile	Ave	0.0852	0.0808		474	500	-5.2	20.0
Bromochloromethane	Ave	0.1584	0.1507		47.6	50.0	-4.8	20.0
Chloroform	Ave	0.4232	0.4235		50.0	50.0	0.0	20.0
Tetrahydrofuran	Ave	0.0371	0.0330		89.0	100	-11.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCVIS 490-240119/2 Calibration Date: 04/09/2015 12:09

Instrument ID: HP48 Calib Start Date: 09/05/2014 13:38

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/05/2014 18:22

Lab File ID: 04091502.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.3379	0.3635		53.8	50.0	7.6	20.0
Cyclohexane	Ave	0.3919	0.4127		52.7	50.0	5.3	20.0
1,1-Dichloropropene	Ave	0.2884	0.3305		57.3	50.0	14.6	20.0
Carbon tetrachloride	Ave	0.3085	0.2932		47.5	50.0	-4.9	20.0
Isobutanol	Ave	0.0113	0.0036		395	1250	-68.4*	20.0
Benzene	Ave	0.9648	0.9896		51.3	50.0	2.6	20.0
t-Amyl alcohol	Ave	0.0078	0.0057		361	500	-27.9	40.0
1,2-Dichloroethane	Ave	0.2670	0.2693		50.4	50.0	0.8	20.0
Tert-amyl methyl ether	Ave	0.5291	0.4842		45.8	50.0	-8.5	20.0
Heptane	Ave	0.3377	0.3329		49.3	50.0	-1.4	20.0
n-Butanol	Ave	0.0029	0.0021		917	1250	-26.6*	20.0
Trichloroethene	Ave	0.2695	0.2789		51.8	50.0	3.5	20.0
Ethyl acrylate	Ave	0.3189	0.1642		25.8	50.0	-48.5*	20.0
Methylcyclohexane	Ave	0.4116	0.4586		55.7	50.0	11.4	20.0
1,2-Dichloropropane	Ave	0.2383	0.2333		49.0	50.0	-2.1	20.0
Methyl methacrylate	Ave	0.1338	0.1249		93.3	100	-6.7	20.0
Dibromomethane	Ave	0.1137	0.1104		48.5	50.0	-2.9	20.0
1,4-Dioxane	Ave	0.0012	0.0009		726	1000	-27.4*	20.0
Bromodichloromethane	Ave	0.3083	0.3085		50.0	50.0	0.0	20.0
2-Nitropropane	Ave	0.0758	0.0662		87.4	100	-12.6	20.0
2-Chloroethyl vinyl ether	Ave	0.1224	0.1076		43.9	50.0	-12.1	20.0
cis-1,3-Dichloropropene	Ave	0.4251	0.4128		48.6	50.0	-2.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0581	0.0511		220	250	-12.0	20.0
Toluene	Ave	1.248	1.266		50.7	50.0	1.4	20.0
trans-1,3-Dichloropropene	Ave	0.3355	0.3307		49.3	50.0	-1.4	20.0
Ethyl methacrylate	Ave	0.2440	0.2347		48.1	50.0	-3.8	20.0
1,1,2-Trichloroethane	Ave	0.2093	0.2006		47.9	50.0	-4.1	20.0
Tetrachloroethene	Ave	0.3742	0.4105		54.9	50.0	9.7	20.0
1,3-Dichloropropane	Ave	0.3641	0.3395		46.6	50.0	-6.8	20.0
2-Hexanone	Ave	0.0536	0.0462		215	250	-13.9	20.0
n-Butyl acetate	Ave	0.1568	0.1756		56.0	50.0	11.9	20.0
Chlorodibromomethane	Ave	0.2095	0.2015		48.1	50.0	-3.8	20.0
1,2-Dibromoethane (EDB)	Ave	0.2065	0.1959		47.4	50.0	-5.1	20.0
1-Chlorohexane	Ave	0.3496	0.4019		57.5	50.0	14.9	20.0
Chlorobenzene	Ave	0.8984	0.9072	0.3000	50.5	50.0	1.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3177	0.3209		50.5	50.0	1.0	20.0
Ethylbenzene	Ave	1.446	1.534		53.1	50.0	6.1	20.0
m,p-Xylene	Ave	1.117	1.193		53.4	50.0	6.7	20.0
o-Xylene	Ave	1.157	1.252		54.1	50.0	8.2	20.0
Styrene	Ave	0.996	1.039		52.2	50.0	4.4	20.0
Bromoform	Ave	0.1823	0.1653	0.1000	45.3	50.0	-9.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCVIS 490-240119/2 Calibration Date: 04/09/2015 12:09

Instrument ID: HP48 Calib Start Date: 09/05/2014 13:38

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/05/2014 18:22

Lab File ID: 04091502.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Lin1		1.605		49.7	50.0	-0.7	20.0
Cyclohexanone	Ave	0.0037	0.0064		851	500	70.3*	20.0
Bromobenzene	Ave	0.8591	0.8875		51.7	50.0	3.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.3803	0.3598	0.3000	47.3	50.0	-5.4	20.0
1,2,3-Trichloropropane	Ave	0.1074	0.1079		50.2	50.0	0.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1009	0.1009		50.0	50.0	-0.0	20.0
N-Propylbenzene	Ave	2.666	3.154		59.1	50.0	18.3	20.0
2-Chlorotoluene	Ave	1.560	1.802		57.8	50.0	15.5	20.0
1,3,5-Trimethylbenzene	Lin2		2.288		53.6	50.0	7.2	20.0
4-Chlorotoluene	Ave	1.710	1.939		56.7	50.0	13.4	20.0
tert-Butylbenzene	Lin2		2.035		59.0	50.0	17.9	20.0
1,2,4-Trimethylbenzene	Lin2		2.329		52.5	50.0	5.0	20.0
sec-Butylbenzene	Lin2		2.991		55.5	50.0	11.1	20.0
p-Isopropyltoluene	Lin2		2.652		52.3	50.0	4.6	20.0
1,3-Dichlorobenzene	Ave	1.359	1.440		53.0	50.0	5.9	20.0
1,4-Dichlorobenzene	Ave	1.431	1.462		51.1	50.0	2.1	20.0
1,2,3-Trimethylbenzene	Ave	2.148	2.326		54.2	50.0	8.3	20.0
Benzyl chloride	Ave	0.4654	0.4421		47.5	50.0	-5.0	20.0
n-Butylbenzene	Lin2		2.256		52.3	50.0	4.5	20.0
1,2-Dichlorobenzene	Ave	1.224	1.258		51.4	50.0	2.8	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0753	0.0749		49.7	50.0	-0.6	20.0
1,3,5-Trichlorobenzene	Ave	1.008	1.067		52.9	50.0	5.9	20.0
1,2,4-Trichlorobenzene	Lin1		0.8271		48.6	50.0	-2.8	20.0
Hexachlorobutadiene	Ave	0.4870	0.5212		53.5	50.0	7.0	20.0
Naphthalene	Lin1		1.190		47.3	50.0	-5.4	20.0
1,2,3-Trichlorobenzene	Ave	0.5912	0.6657		56.3	50.0	12.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCVIS 490-240119/2 Calibration Date: 04/09/2015 12:09

Instrument ID: HP48 Calib Start Date: 09/27/2014 11:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/27/2014 13:04

Lab File ID: 04091502.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2300	0.2395		26.0	25.0	4.1	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2191	0.2221		25.3	25.0	1.4	30.0
Toluene-d8 (Surr)	Ave	1.194	1.092		22.9	25.0	-8.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8346	0.7456		22.3	25.0	-10.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCVIS 490-240241/3 Calibration Date: 04/10/2015 02:09

Instrument ID: HP48 Calib Start Date: 09/05/2014 13:38

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/05/2014 18:22

Lab File ID: 04091531.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2614	0.2334		55.8	62.5	-10.7	20.0
Chloromethane	Ave	0.2840	0.2679	0.1000	59.0	62.5	-5.7	20.0
Vinyl chloride	Ave	0.2697	0.2714		62.9	62.5	0.6	20.0
Butadiene	Ave	0.2234	0.2476		69.3	62.5	10.9	20.0
Bromomethane	Lin1		0.1568		64.0	62.5	2.4	20.0
Chloroethane	Ave	0.1687	0.1732		64.2	62.5	2.7	20.0
Dichlorofluoromethane	Ave	0.4068	0.3935		60.5	62.5	-3.3	20.0
Trichlorofluoromethane	Ave	0.3596	0.3883		67.5	62.5	8.0	20.0
Ethanol	Ave	0.0005	0.0007		2658	2000	32.9	40.0
Diethyl ether	Ave	0.1465	0.1500		51.2	50.0	2.4	20.0
Acrolein	Lin2		0.0100		81.7	125	-34.7	40.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2179	0.1873		43.0	50.0	-14.1	20.0
1,1-Dichloroethene	Ave	0.2075	0.2124		51.2	50.0	2.4	20.0
Acetone	Ave	0.0107	0.0086		200	250	-19.8	20.0
Iodomethane	Lin2		0.2992		57.6	50.0	15.1	20.0
Isopropyl alcohol	Ave	0.0057	0.0016		135	500	-72.9*	20.0
Carbon disulfide	Ave	0.6480	0.6267		48.4	50.0	-3.3	20.0
3-Chloro-1-propene	Ave	0.1774	0.1720		48.5	50.0	-3.1	20.0
Acetonitrile	Ave	0.0515	0.0393		382	500	-23.7*	20.0
Methyl acetate	Ave	0.1256	0.0843		168	250	-32.9*	20.0
Methylene Chloride	Ave	0.2445	0.2377		48.6	50.0	-2.8	20.0
tert-Butyl alcohol (TBA)	Ave	0.0088	0.0033		187	500	-62.7*	40.0
Methyl tert-butyl ether	Ave	0.4586	0.4226		46.1	50.0	-7.8	20.0
trans-1,2-Dichloroethene	Ave	0.3076	0.2943		47.8	50.0	-4.3	20.0
Acrylonitrile	Ave	0.0495	0.0406		410	500	-18.0	20.0
Hexane	Ave	0.3331	0.3189		47.9	50.0	-4.3	20.0
Diisopropyl ether	Ave	0.6815	0.6869		50.4	50.0	0.8	20.0
1,1-Dichloroethane	Ave	0.4286	0.4411	0.1000	51.5	50.0	2.9	20.0
Vinyl acetate	Ave	0.3530	0.4536		129	100	28.5	40.0
Chloroprene	Ave	0.3281	0.3360		51.2	50.0	2.4	20.0
Ethyl tert-butyl ether	Ave	0.5698	0.5678		49.8	50.0	-0.4	20.0
2,2-Dichloropropane	Ave	0.3314	0.2792		42.1	50.0	-15.8	20.0
2-Butanone (MEK)	Ave	0.0139	0.0113		202	250	-19.0	20.0
cis-1,2-Dichloroethene	Ave	0.3836	0.3976		51.8	50.0	3.7	20.0
Ethyl acetate	Ave	0.2224	0.1988		89.4	100	-10.6	20.0
Propionitrile	Ave	0.0184	0.0129		352	500	-29.7*	20.0
Methacrylonitrile	Ave	0.0852	0.0804		472	500	-5.6	20.0
Bromochloromethane	Ave	0.1584	0.1532		48.4	50.0	-3.3	20.0
Chloroform	Ave	0.4232	0.4275		50.5	50.0	1.0	20.0
Tetrahydrofuran	Ave	0.0371	0.0300		80.9	100	-19.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCVIS 490-240241/3 Calibration Date: 04/10/2015 02:09

Instrument ID: HP48 Calib Start Date: 09/05/2014 13:38

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/05/2014 18:22

Lab File ID: 04091531.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.3379	0.3623		53.6	50.0	7.2	20.0
Cyclohexane	Ave	0.3919	0.4108		52.4	50.0	4.8	20.0
1,1-Dichloropropene	Ave	0.2884	0.3285		57.0	50.0	13.9	20.0
Carbon tetrachloride	Ave	0.3085	0.3228		52.3	50.0	4.6	20.0
Isobutanol	Ave	0.0113	0.0018		196	1250	-84.3*	20.0
Benzene	Ave	0.9648	0.9941		51.5	50.0	3.0	20.0
1,2-Dichloroethane	Ave	0.2670	0.2736		51.2	50.0	2.5	20.0
t-Amyl alcohol	Ave	0.0078	0.0015		98.1	500	-80.4*	40.0
Tert-amyl methyl ether	Ave	0.5291	0.4925		46.5	50.0	-6.9	20.0
Heptane	Ave	0.3377	0.3283		48.6	50.0	-2.8	20.0
n-Butanol	Ave	0.0029	0.0009		369	1250	-70.5*	20.0
Trichloroethene	Ave	0.2695	0.2803		52.0	50.0	4.0	20.0
Ethyl acrylate	Ave	0.3189	0.1658		26.0	50.0	-48.0*	20.0
Methylcyclohexane	Ave	0.4116	0.4488		54.5	50.0	9.0	20.0
1,2-Dichloropropane	Ave	0.2383	0.2380		50.0	50.0	-0.1	20.0
Methyl methacrylate	Ave	0.1338	0.1261		94.2	100	-5.8	20.0
Dibromomethane	Ave	0.1137	0.1123		49.4	50.0	-1.3	20.0
1,4-Dioxane	Ave	0.0012	0.0003		223	1000	-77.7*	20.0
Bromodichloromethane	Ave	0.3083	0.3154		51.2	50.0	2.3	20.0
2-Nitropropane	Ave	0.0758	0.0651		85.9	100	-14.1	20.0
2-Chloroethyl vinyl ether	Ave	0.1224	0.1077		44.0	50.0	-12.0	20.0
cis-1,3-Dichloropropene	Ave	0.4251	0.4107		48.3	50.0	-3.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0581	0.0491		211	250	-15.6	20.0
Toluene	Ave	1.248	1.266		50.7	50.0	1.4	20.0
trans-1,3-Dichloropropene	Ave	0.3355	0.3282		48.9	50.0	-2.2	20.0
Ethyl methacrylate	Ave	0.2440	0.2363		48.4	50.0	-3.2	20.0
1,1,2-Trichloroethane	Ave	0.2093	0.2010		48.0	50.0	-3.9	20.0
Tetrachloroethene	Ave	0.3742	0.4071		54.4	50.0	8.8	20.0
1,3-Dichloropropane	Ave	0.3641	0.3469		47.6	50.0	-4.7	20.0
2-Hexanone	Ave	0.0536	0.0437		204	250	-18.5	20.0
n-Butyl acetate	Ave	0.1568	0.1779		56.7	50.0	13.4	20.0
Chlorodibromomethane	Ave	0.2095	0.2063		49.3	50.0	-1.5	20.0
1,2-Dibromoethane (EDB)	Ave	0.2065	0.1963		47.5	50.0	-4.9	20.0
1-Chlorohexane	Ave	0.3496	0.3934		56.3	50.0	12.5	20.0
Chlorobenzene	Ave	0.8984	0.9041	0.3000	50.3	50.0	0.6	20.0
Ethylbenzene	Ave	1.446	1.525		52.7	50.0	5.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3177	0.3226		50.8	50.0	1.5	20.0
m,p-Xylene	Ave	1.117	1.201		53.7	50.0	7.5	20.0
o-Xylene	Ave	1.157	1.262		54.5	50.0	9.0	20.0
Styrene	Ave	0.996	1.054		52.9	50.0	5.8	20.0
Bromoform	Ave	0.1823	0.1685	0.1000	46.2	50.0	-7.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCVIS 490-240241/3 Calibration Date: 04/10/2015 02:09

Instrument ID: HP48 Calib Start Date: 09/05/2014 13:38

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/05/2014 18:22

Lab File ID: 04091531.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Lin1		1.612		49.9	50.0	-0.2	20.0
Cyclohexanone	Ave	0.0037	0.0031		417	500	-16.6	20.0
Bromobenzene	Ave	0.8591	0.8985		52.3	50.0	4.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.3803	0.3537	0.3000	46.5	50.0	-7.0	20.0
1,2,3-Trichloropropane	Ave	0.1074	0.1048		48.8	50.0	-2.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1009	0.0960		47.6	50.0	-4.8	20.0
N-Propylbenzene	Ave	2.666	3.111		58.3	50.0	16.7	20.0
2-Chlorotoluene	Ave	1.560	1.773		56.8	50.0	13.6	20.0
1,3,5-Trimethylbenzene	Lin2		2.237		52.4	50.0	4.8	20.0
4-Chlorotoluene	Ave	1.710	1.919		56.1	50.0	12.3	20.0
tert-Butylbenzene	Lin2		1.984		57.5	50.0	15.0	20.0
1,2,4-Trimethylbenzene	Lin2		2.304		51.9	50.0	3.8	20.0
sec-Butylbenzene	Lin2		2.940		54.6	50.0	9.2	20.0
p-Isopropyltoluene	Lin2		2.626		51.8	50.0	3.6	20.0
1,3-Dichlorobenzene	Ave	1.359	1.440		53.0	50.0	5.9	20.0
1,4-Dichlorobenzene	Ave	1.431	1.414		49.4	50.0	-1.2	20.0
1,2,3-Trimethylbenzene	Ave	2.148	2.294		53.4	50.0	6.8	20.0
Benzyl chloride	Ave	0.4654	0.3729		40.1	50.0	-19.9	20.0
n-Butylbenzene	Lin2		2.219		51.4	50.0	2.8	20.0
1,2-Dichlorobenzene	Ave	1.224	1.266		51.7	50.0	3.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0753	0.0711		47.2	50.0	-5.6	20.0
1,3,5-Trichlorobenzene	Ave	1.008	1.068		53.0	50.0	5.9	20.0
1,2,4-Trichlorobenzene	Lin1		0.8115		47.7	50.0	-4.6	20.0
Hexachlorobutadiene	Ave	0.4870	0.5074		52.1	50.0	4.2	20.0
Naphthalene	Lin1		1.178		46.9	50.0	-6.2	20.0
1,2,3-Trichlorobenzene	Ave	0.5912	0.6633		56.1	50.0	12.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCVIS 490-240241/3 Calibration Date: 04/10/2015 02:09

Instrument ID: HP48 Calib Start Date: 09/27/2014 11:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/27/2014 13:04

Lab File ID: 04091531.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2300	0.2437		26.5	25.0	5.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2191	0.2211		25.2	25.0	0.9	30.0
Toluene-d8 (Surr)	Ave	1.194	1.107		23.2	25.0	-7.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8346	0.7264		21.8	25.0	-13.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCVIS 490-240285/3 Calibration Date: 04/10/2015 11:28

Instrument ID: HP48 Calib Start Date: 09/05/2014 13:38

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/05/2014 18:22

Lab File ID: 04101503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2614	0.2414		57.7	62.5	-7.7	20.0
Chloromethane	Ave	0.2840	0.2784	0.1000	61.3	62.5	-2.0	20.0
Vinyl chloride	Ave	0.2697	0.2797		64.8	62.5	3.7	20.0
Butadiene	Ave	0.2234	0.2519		70.5	62.5	12.8	20.0
Bromomethane	Lin1		0.1634		66.7	62.5	6.6	20.0
Chloroethane	Ave	0.1687	0.1649		61.1	62.5	-2.2	20.0
Dichlorofluoromethane	Ave	0.4068	0.4050		62.2	62.5	-0.4	20.0
Trichlorofluoromethane	Ave	0.3596	0.3951		68.7	62.5	9.8	20.0
Diethyl ether	Ave	0.1465	0.1447		49.4	50.0	-1.2	20.0
Ethanol	Ave	0.0005	0.0022		8086	2000	304.3*	40.0
Acrolein	Lin2		0.0102		83.8	125	-33.0	40.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2179	0.2288		52.5	50.0	5.0	20.0
1,1-Dichloroethene	Ave	0.2075	0.2161		52.1	50.0	4.1	20.0
Acetone	Ave	0.0107	0.0080		187	250	-25.1*	20.0
Iodomethane	Lin2		0.3227		62.1	50.0	24.1*	20.0
Isopropyl alcohol	Ave	0.0057	0.0013		111	500	-77.7*	20.0
Carbon disulfide	Ave	0.6480	0.6430		49.6	50.0	-0.8	20.0
3-Chloro-1-propene	Ave	0.1774	0.1798		50.7	50.0	1.4	20.0
Acetonitrile	Ave	0.0515	0.0383		372	500	-25.7*	20.0
Methyl acetate	Ave	0.1256	0.0926		184	250	-26.3*	20.0
Methylene Chloride	Ave	0.2445	0.2385		48.8	50.0	-2.5	20.0
tert-Butyl alcohol (TBA)	Ave	0.0088	0.0022		126	500	-74.8*	40.0
Methyl tert-butyl ether	Ave	0.4586	0.4255		46.4	50.0	-7.2	20.0
trans-1,2-Dichloroethene	Ave	0.3076	0.3027		49.2	50.0	-1.6	20.0
Acrylonitrile	Ave	0.0495	0.0394		398	500	-20.4*	20.0
Hexane	Ave	0.3331	0.3501		52.5	50.0	5.1	20.0
Diisopropyl ether	Ave	0.6815	0.6765		49.6	50.0	-0.7	20.0
1,1-Dichloroethane	Ave	0.4286	0.4509	0.1000	52.6	50.0	5.2	20.0
Vinyl acetate	Ave	0.3530	0.4420		125	100	25.2	40.0
Chloroprene	Ave	0.3281	0.3474		52.9	50.0	5.9	20.0
Ethyl tert-butyl ether	Ave	0.5698	0.5495		48.2	50.0	-3.6	20.0
2,2-Dichloropropane	Ave	0.3314	0.3248		49.0	50.0	-2.0	20.0
cis-1,2-Dichloroethene	Ave	0.3836	0.4070		53.1	50.0	6.1	20.0
2-Butanone (MEK)	Ave	0.0139	0.0101		180	250	-27.8*	20.0
Ethyl acetate	Ave	0.2224	0.1797		80.8	100	-19.2	20.0
Propionitrile	Ave	0.0184	0.0113		307	500	-38.7*	20.0
Methacrylonitrile	Ave	0.0852	0.0747		439	500	-12.3	20.0
Bromochloromethane	Ave	0.1584	0.1507		47.6	50.0	-4.9	20.0
Chloroform	Ave	0.4232	0.4314		51.0	50.0	1.9	20.0
Tetrahydrofuran	Ave	0.0371	0.0256		68.9	100	-31.1*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCVIS 490-240285/3 Calibration Date: 04/10/2015 11:28

Instrument ID: HP48 Calib Start Date: 09/05/2014 13:38

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/05/2014 18:22

Lab File ID: 04101503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.3379	0.3674		54.4	50.0	8.7	20.0
Cyclohexane	Ave	0.3919	0.4224		53.9	50.0	7.8	20.0
1,1-Dichloropropene	Ave	0.2884	0.3365		58.3	50.0	16.7	20.0
Carbon tetrachloride	Ave	0.3085	0.3185		51.6	50.0	3.2	20.0
Isobutanol	Ave	0.0113	0.0013		139	1250	-88.9*	20.0
t-Amyl alcohol	Ave	0.0078	0.0022		142	500	-71.6*	40.0
Benzene	Ave	0.9648	1.006		52.1	50.0	4.2	20.0
1,2-Dichloroethane	Ave	0.2670	0.2695		50.5	50.0	0.9	20.0
Tert-amyl methyl ether	Ave	0.5291	0.4923		46.5	50.0	-7.0	20.0
Heptane	Ave	0.3377	0.3436		50.9	50.0	1.7	20.0
n-Butanol	Ave	0.0029	0.0006		249	1250	-80.1*	20.0
Trichloroethene	Ave	0.2695	0.2864		53.1	50.0	6.3	20.0
Ethyl acrylate	Ave	0.3189	0.1526		23.9	50.0	-52.1*	20.0
Methylcyclohexane	Ave	0.4116	0.4623		56.2	50.0	12.3	20.0
1,2-Dichloropropane	Ave	0.2383	0.2368		49.7	50.0	-0.6	20.0
Methyl methacrylate	Ave	0.1338	0.1176		87.9	100	-12.1	20.0
Dibromomethane	Ave	0.1137	0.1093		48.0	50.0	-4.0	20.0
1,4-Dioxane	Ave	0.0012	0.0002		154	1000	-84.6*	20.0
Bromodichloromethane	Ave	0.3083	0.3116		50.5	50.0	1.1	20.0
2-Nitropropane	Ave	0.0758	0.0618		81.5	100	-18.5	20.0
2-Chloroethyl vinyl ether	Ave	0.1224	0.1051		42.9	50.0	-14.2	20.0
cis-1,3-Dichloropropene	Ave	0.4251	0.4152		48.8	50.0	-2.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0581	0.0469		202	250	-19.2	20.0
Toluene	Ave	1.248	1.293		51.8	50.0	3.6	20.0
trans-1,3-Dichloropropene	Ave	0.3355	0.3305		49.3	50.0	-1.5	20.0
Ethyl methacrylate	Ave	0.2440	0.2280		46.7	50.0	-6.5	20.0
1,1,2-Trichloroethane	Ave	0.2093	0.1949		46.6	50.0	-6.9	20.0
Tetrachloroethene	Ave	0.3742	0.4197		56.1	50.0	12.2	20.0
1,3-Dichloropropane	Ave	0.3641	0.3394		46.6	50.0	-6.8	20.0
2-Hexanone	Ave	0.0536	0.0438		204	250	-18.3	20.0
n-Butyl acetate	Ave	0.1568	0.1621		51.7	50.0	3.3	20.0
Chlorodibromomethane	Ave	0.2095	0.2035		48.6	50.0	-2.9	20.0
1,2-Dibromoethane (EDB)	Ave	0.2065	0.1914		46.4	50.0	-7.3	20.0
1-Chlorohexane	Ave	0.3496	0.4114		58.8	50.0	17.7	20.0
Chlorobenzene	Ave	0.8984	0.9267	0.3000	51.6	50.0	3.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3177	0.3243		51.0	50.0	2.1	20.0
Ethylbenzene	Ave	1.446	1.574		54.4	50.0	8.9	20.0
m,p-Xylene	Ave	1.117	1.242		55.6	50.0	11.2	20.0
o-Xylene	Ave	1.157	1.290		55.8	50.0	11.5	20.0
Styrene	Ave	0.996	1.062		53.4	50.0	6.7	20.0
Bromoform	Ave	0.1823	0.1635	0.1000	44.9	50.0	-10.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCVIS 490-240285/3 Calibration Date: 04/10/2015 11:28

Instrument ID: HP48 Calib Start Date: 09/05/2014 13:38

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/05/2014 18:22

Lab File ID: 04101503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Lin1		1.658		51.3	50.0	2.6	20.0
Cyclohexanone	Ave	0.0037	0.0024		326	500	-34.8*	20.0
Bromobenzene	Ave	0.8591	0.9190		53.5	50.0	7.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.3803	0.3461	0.3000	45.5	50.0	-9.0	20.0
1,2,3-Trichloropropane	Ave	0.1074	0.1033		48.1	50.0	-3.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1009	0.0973		48.2	50.0	-3.6	20.0
N-Propylbenzene	Ave	2.666	3.188		59.8	50.0	19.5	20.0
2-Chlorotoluene	Ave	1.560	1.842		59.0	50.0	18.0	20.0
1,3,5-Trimethylbenzene	Lin2		2.336		54.7	50.0	9.5	20.0
4-Chlorotoluene	Ave	1.710	1.960		57.3	50.0	14.7	20.0
tert-Butylbenzene	Lin2		2.060		59.7	50.0	19.3	20.0
1,2,4-Trimethylbenzene	Lin2		2.362		53.2	50.0	6.4	20.0
sec-Butylbenzene	Lin2		3.052		56.7	50.0	13.3	20.0
p-Isopropyltoluene	Lin2		2.734		53.9	50.0	7.8	20.0
1,3-Dichlorobenzene	Ave	1.359	1.459		53.7	50.0	7.4	20.0
1,4-Dichlorobenzene	Ave	1.431	1.476		51.6	50.0	3.1	20.0
1,2,3-Trimethylbenzene	Ave	2.148	2.359		54.9	50.0	9.8	20.0
Benzyl chloride	Ave	0.4654	0.4300		46.2	50.0	-7.6	20.0
n-Butylbenzene	Lin2		2.302		53.3	50.0	6.7	20.0
1,2-Dichlorobenzene	Ave	1.224	1.273		52.0	50.0	4.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0753	0.0661		43.9	50.0	-12.3	20.0
1,3,5-Trichlorobenzene	Ave	1.008	1.079		53.5	50.0	7.1	20.0
1,2,4-Trichlorobenzene	Lin1		0.8233		48.4	50.0	-3.3	20.0
Hexachlorobutadiene	Ave	0.4870	0.5253		53.9	50.0	7.9	20.0
Naphthalene	Lin1		1.138		45.3	50.0	-9.3	20.0
1,2,3-Trichlorobenzene	Ave	0.5912	0.6450		54.6	50.0	9.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCVIS 490-240285/3 Calibration Date: 04/10/2015 11:28

Instrument ID: HP48 Calib Start Date: 09/27/2014 11:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/27/2014 13:04

Lab File ID: 04101503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2300	0.2430		26.4	25.0	5.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2191	0.2167		24.7	25.0	-1.1	30.0
Toluene-d8 (Surr)	Ave	1.194	1.105		23.1	25.0	-7.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8346	0.7358		22.0	25.0	-11.8	30.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-240119/6

Matrix: Water | Lab File ID: 04091506.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/09/2015 14:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240119 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-240241/6

Matrix: Water | Lab File ID: 04091534.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 03:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240241 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-240285/6

Matrix: Water | Lab File ID: 04101506.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 12:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240285 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-240119/3

Matrix: Water | Lab File ID: 04091503.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/09/2015 12:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240119 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	54.29		1.00	0.210
75-35-4	1,1-Dichloroethene	52.67		1.00	0.250
127-18-4	Tetrachloroethene	55.85		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	49.75		1.00	0.230
79-01-6	Trichloroethene	53.54		1.00	0.200
75-01-4	Vinyl chloride	52.20		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	89		70-130
1868-53-7	Dibromofluoromethane (Surr)	104		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-240241/4

Matrix: Water | Lab File ID: 04091532.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 02:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240241 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	53.11		1.00	0.210
75-35-4	1,1-Dichloroethene	51.65		1.00	0.250
127-18-4	Tetrachloroethene	55.52		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	52.77		1.00	0.230
79-01-6	Trichloroethene	53.84		1.00	0.200
75-01-4	Vinyl chloride	63.58		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-240285/4

Matrix: Water | Lab File ID: 04101504.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 11:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240285 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	53.77		1.00	0.210
75-35-4	1,1-Dichloroethene	51.79		1.00	0.250
127-18-4	Tetrachloroethene	56.92		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	54.00		1.00	0.230
79-01-6	Trichloroethene	53.92		1.00	0.200
75-01-4	Vinyl chloride	64.79		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		70-130
1868-53-7	Dibromofluoromethane (Surr)	103		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 490-240119/4

Matrix: Water Lab File ID: 04091504.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 10(mL) Date Analyzed: 04/09/2015 13:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 240119 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	53.47		1.00	0.210
75-35-4	1,1-Dichloroethene	51.62		1.00	0.250
127-18-4	Tetrachloroethene	55.60		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	48.64		1.00	0.230
79-01-6	Trichloroethene	52.83		1.00	0.200
75-01-4	Vinyl chloride	50.95		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	89		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SDMW-2-GW-HS-040115 MS | Lab Sample ID: 490-75765-3 MS

Matrix: Ground Water | Lab File ID: 04091526.D

Analysis Method: 8260B | Date Collected: 04/01/2015 15:00

Sample wt/vol: 10(mL) | Date Analyzed: 04/09/2015 23:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240119 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	53.73		1.00	0.210
75-35-4	1,1-Dichloroethene	55.04		1.00	0.250
127-18-4	Tetrachloroethene	134.6		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	50.31		1.00	0.230
79-01-6	Trichloroethene	58.28		1.00	0.200
75-01-4	Vinyl chloride	69.57		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SDMW-7-GW-HS-040115 MS | Lab Sample ID: 490-75765-6 MS

Matrix: Ground Water | Lab File ID: 04091549.D

Analysis Method: 8260B | Date Collected: 04/01/2015 15:35

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 09:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240241 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	62.06		1.00	0.210
75-35-4	1,1-Dichloroethene	60.34		1.00	0.250
127-18-4	Tetrachloroethene	190.0		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	53.42		1.00	0.230
79-01-6	Trichloroethene	354.6		1.00	0.200
75-01-4	Vinyl chloride	74.02		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SW-3-SW-040115 MS | Lab Sample ID: 490-75765-19 MS

Matrix: Ground Water | Lab File ID: 04101523.D

Analysis Method: 8260B | Date Collected: 04/01/2015 14:52

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 20:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240285 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	54.06		1.00	0.210
75-35-4	1,1-Dichloroethene	54.71		1.00	0.250
127-18-4	Tetrachloroethene	57.94		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	51.16		1.00	0.230
79-01-6	Trichloroethene	55.15		1.00	0.200
75-01-4	Vinyl chloride	66.22		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		70-130
1868-53-7	Dibromofluoromethane (Surr)	104		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SDMW-2-GW-HS-040115 MSD | Lab Sample ID: 490-75765-3 MSD

Matrix: Ground Water | Lab File ID: 04091527.D

Analysis Method: 8260B | Date Collected: 04/01/2015 15:00

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 00:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240119 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	55.58		1.00	0.210
75-35-4	1,1-Dichloroethene	57.40		1.00	0.250
127-18-4	Tetrachloroethene	130.0		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	52.30		1.00	0.230
79-01-6	Trichloroethene	60.80		1.00	0.200
75-01-4	Vinyl chloride	72.67		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		70-130
1868-53-7	Dibromofluoromethane (Surr)	104		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SDMW-7-GW-HS-040115 MSD | Lab Sample ID: 490-75765-6 MSD

Matrix: Ground Water | Lab File ID: 04091550.D

Analysis Method: 8260B | Date Collected: 04/01/2015 15:35

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 09:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240241 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	64.62		1.00	0.210
75-35-4	1,1-Dichloroethene	61.12		1.00	0.250
127-18-4	Tetrachloroethene	190.9		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	54.73		1.00	0.230
79-01-6	Trichloroethene	342.8		1.00	0.200
75-01-4	Vinyl chloride	74.18		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SW-3-SW-040115 MSD | Lab Sample ID: 490-75765-19 MSD

Matrix: Ground Water | Lab File ID: 04101524.D

Analysis Method: 8260B | Date Collected: 04/01/2015 14:52

Sample wt/vol: 10(mL) | Date Analyzed: 04/10/2015 21:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240285 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	56.71		1.00	0.210
75-35-4	1,1-Dichloroethene	58.95		1.00	0.250
127-18-4	Tetrachloroethene	63.02		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	58.88		1.00	0.230
79-01-6	Trichloroethene	58.84		1.00	0.200
75-01-4	Vinyl chloride	71.05		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	90		70-130
1868-53-7	Dibromofluoromethane (Surr)	104		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP48 Start Date: 09/05/2014 12:42

Analysis Batch Number: 188769 End Date: 09/05/2014 18:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-188769/1		09/05/2014 12:42	1	09051407.D	DB-624 0.18(mm)
STD0005 490-188769/2 IC		09/05/2014 13:38	1	09051409.D	DB-624 0.18(mm)
STD001 490-188769/3 IC		09/05/2014 14:07	1	09051410.D	DB-624 0.18(mm)
STD002 490-188769/4 IC		09/05/2014 14:35	1	09051411.D	DB-624 0.18(mm)
STD005 490-188769/5 IC		09/05/2014 15:03	1	09051412.D	DB-624 0.18(mm)
STD010 490-188769/6 IC		09/05/2014 15:32	1	09051413.D	DB-624 0.18(mm)
STD020 490-188769/7 IC		09/05/2014 16:00	1	09051414.D	DB-624 0.18(mm)
ICIS 490-188769/8		09/05/2014 16:29	1	09051415.D	DB-624 0.18(mm)
ICV 490-188769/9		09/05/2014 16:57	1	09051416.D	DB-624 0.18(mm)
STD100 490-188769/10 IC		09/05/2014 17:25	1	09051417.D	DB-624 0.18(mm)
STD200 490-188769/11 IC		09/05/2014 17:54	1	09051418.D	DB-624 0.18(mm)
STD400 490-188769/12 IC		09/05/2014 18:22	1	09051419.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP48 Start Date: 04/09/2015 11:40

Analysis Batch Number: 240119 End Date: 04/10/2015 00:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-240119/1		04/09/2015 11:40	1	04091501.D	DB-624 0.18(mm)
CCVIS 490-240119/2		04/09/2015 12:09	1	04091502.D	DB-624 0.18(mm)
LCS 490-240119/3		04/09/2015 12:37	1	04091503.D	DB-624 0.18(mm)
LCSD 490-240119/4		04/09/2015 13:05	1	04091504.D	DB-624 0.18(mm)
MB 490-240119/6		04/09/2015 14:02	1	04091506.D	DB-624 0.18(mm)
ZZZZZ		04/09/2015 14:59	1		DB-624 0.18(mm)
ZZZZZ		04/09/2015 16:13	1		DB-624 0.18(mm)
ZZZZZ		04/09/2015 16:42	1		DB-624 0.18(mm)
ZZZZZ		04/09/2015 17:10	10		DB-624 0.18(mm)
490-75765-1	SWMW-1-GW-HS-040115	04/09/2015 17:38	1	04091513.D	DB-624 0.18(mm)
490-75765-2	SCMW-5-GW-HS-040115	04/09/2015 18:07	1	04091514.D	DB-624 0.18(mm)
490-75765-3	SDMW-2-GW-HS-040115	04/09/2015 18:35	1	04091515.D	DB-624 0.18(mm)
490-75765-4	SDMW-4-GW-HS-040115	04/09/2015 19:03	1	04091516.D	DB-624 0.18(mm)
490-75765-5	SDMW-4-GW-HS-040115-FD	04/09/2015 19:32	1	04091517.D	DB-624 0.18(mm)
ZZZZZ		04/09/2015 20:00	1		DB-624 0.18(mm)
ZZZZZ		04/09/2015 20:29	1		DB-624 0.18(mm)
ZZZZZ		04/09/2015 20:57	1		DB-624 0.18(mm)
ZZZZZ		04/09/2015 21:25	1		DB-624 0.18(mm)
ZZZZZ		04/09/2015 21:54	1		DB-624 0.18(mm)
490-75765-7	SDMW-8-GW-HS-040115	04/09/2015 22:22	1	04091523.D	DB-624 0.18(mm)
490-75765-8	SGMW-9-GW-HS-040115	04/09/2015 22:50	1	04091524.D	DB-624 0.18(mm)
490-75765-9	SGMW-7-GW-HS-040115	04/09/2015 23:19	1	04091525.D	DB-624 0.18(mm)
490-75765-3 MS	SDMW-2-GW-HS-040115 MS	04/09/2015 23:47	1	04091526.D	DB-624 0.18(mm)
490-75765-3 MSD	SDMW-2-GW-HS-040115 MSD	04/10/2015 00:16	1	04091527.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP48 Start Date: 04/10/2015 01:12

Analysis Batch Number: 240241 End Date: 04/10/2015 09:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-240241/1		04/10/2015 01:12	1	04091529.D	DB-624 0.18(mm)
CCVIS 490-240241/3		04/10/2015 02:09	1	04091531.D	DB-624 0.18(mm)
LCS 490-240241/4		04/10/2015 02:37	1	04091532.D	DB-624 0.18(mm)
MB 490-240241/6		04/10/2015 03:34	1	04091534.D	DB-624 0.18(mm)
490-75765-6	SDMW-7-GW-HS-040115	04/10/2015 04:31	1	04091536.D	DB-624 0.18(mm)
490-75765-10	SHMW-2-GW-HS-040115	04/10/2015 06:24	1	04091540.D	DB-624 0.18(mm)
490-75765-11	SHMW-3-GW-HS-040115	04/10/2015 06:53	1	04091541.D	DB-624 0.18(mm)
490-75765-12	SPMW-15-GW-HS-040115	04/10/2015 07:21	1	04091542.D	DB-624 0.18(mm)
490-75765-13	SPMW-17-GW-HS-040115	04/10/2015 07:50	1	04091543.D	DB-624 0.18(mm)
490-75765-14	SPMW-17-GW-HS-040115-FD	04/10/2015 08:18	1	04091544.D	DB-624 0.18(mm)
490-75765-15	SPMW-19-GW-HS-040115	04/10/2015 08:46	1	04091545.D	DB-624 0.18(mm)
490-75765-6 MS	SDMW-7-GW-HS-040115 MS	04/10/2015 09:15	1	04091549.D	DB-624 0.18(mm)
490-75765-6 MSD	SDMW-7-GW-HS-040115 MSD	04/10/2015 09:43	1	04091550.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP48 Start Date: 04/10/2015 10:31

Analysis Batch Number: 240285 End Date: 04/10/2015 21:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-240285/1		04/10/2015 10:31	1	04101501.D	DB-624 0.18(mm)
CCVIS 490-240285/3		04/10/2015 11:28	1	04101503.D	DB-624 0.18(mm)
LCS 490-240285/4		04/10/2015 11:56	1	04101504.D	DB-624 0.18(mm)
MB 490-240285/6		04/10/2015 12:53	1	04101506.D	DB-624 0.18(mm)
490-75765-20	TB-01-040115	04/10/2015 13:21	1	04101507.D	DB-624 0.18(mm)
490-75765-19	SW-3-SW-040115	04/10/2015 13:50	1	04101508.D	DB-624 0.18(mm)
490-75765-18	SW-2-SW-040115-FD	04/10/2015 14:18	1	04101509.D	DB-624 0.18(mm)
490-75765-17	SW-2-SW-040115	04/10/2015 14:47	1	04101510.D	DB-624 0.18(mm)
490-75765-16	SPMW-20-GW-HS-040115	04/10/2015 15:15	1	04101511.D	DB-624 0.18(mm)
490-75765-4 DL	SDMW-4-GW-HS-040115 DL	04/10/2015 15:43	10	04101512.D	DB-624 0.18(mm)
490-75765-5 DL	SDMW-4-GW-HS-040115-FD DL	04/10/2015 16:12	10	04101513.D	DB-624 0.18(mm)
490-75765-7 DL	SDMW-8-GW-HS-040115 DL	04/10/2015 16:40	10	04101514.D	DB-624 0.18(mm)
490-75765-11 DL	SHMW-3-GW-HS-040115 DL	04/10/2015 17:08	50	04101515.D	DB-624 0.18(mm)
ZZZZZ		04/10/2015 18:33	1		DB-624 0.18(mm)
ZZZZZ		04/10/2015 19:02	1		DB-624 0.18(mm)
ZZZZZ		04/10/2015 19:30	1		DB-624 0.18(mm)
ZZZZZ		04/10/2015 19:58	1		DB-624 0.18(mm)
490-75765-16 DL	SPMW-20-GW-HS-040115 DL	04/10/2015 20:27	100	04101522.D	DB-624 0.18(mm)
490-75765-19 MS	SW-3-SW-040115 MS	04/10/2015 20:55	1	04101523.D	DB-624 0.18(mm)
490-75765-19 MSD	SW-3-SW-040115 MSD	04/10/2015 21:24	1	04101524.D	DB-624 0.18(mm)

Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTX-5 ID: 0.32 (mm) GC Column (2): RTX-50 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
SCMW-5-GW-HS-040115	490-75765-2		83		50
SDMW-7-GW-HS-040115	490-75765-6	75			58
SDMW-8-GW-HS-040115	490-75765-7	84 p		65 p	
SHMW-2-GW-HS-040115	490-75765-10		73		47
	MB 490-239249/1-A	80			66
	LCS 490-239249/2-A	78			64

	QC LIMITS
TCX = Tetrachloro-m-xylene	10-150
DCB = DCB Decachlorobiphenyl (Surr)	10-150

Column to be used to flag recovery values

FORM II 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041415hp37.043dat.d

Lab ID: LCS 490-239249/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	5.00	4.367	87	23-139	
PCB-1260	5.00	3.699	74	36-144	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: MB 490-239249/1-A

Matrix: Water Date Extracted: 04/06/2015 13:34

Lab File ID:(1) 041415hp37.042dat.d Lab File ID:(2) 041415hp37.042dat.d

Date Analyzed:(1) 04/14/2015 22:39 Date Analyzed:(2) 04/14/2015 22:39

Instrument ID:(1) HP37 Instrument ID:(2) HP37

GC Column:(1) RTX-5 ID: 0.32(mm) GC Column:(2) RTX-50 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 490-239249/2-A	04/14/2015 22:55	04/14/2015 22:55
SCMW-5-GW-HS-040115	490-75765-2	04/14/2015 23:10	04/14/2015 23:10
SDMW-7-GW-HS-040115	490-75765-6	04/14/2015 23:26	04/14/2015 23:26
SDMW-8-GW-HS-040115	490-75765-7	04/14/2015 23:42	04/14/2015 23:42
SHMW-2-GW-HS-040115	490-75765-10	04/14/2015 23:57	04/14/2015 23:57

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Sample No.: ICRT 490-237912/7 Date Analyzed: 03/31/2015 17:23

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): 033115hp37.007dat.d Heated Purge: (Y/N) N

Calibration ID: 38947

		TCX		DCB			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION SURROGATE		90020	2.06	70732	8.39		
UPPER LIMIT			2.16		8.49		
LOWER LIMIT			1.96		8.29		
LAB SAMPLE ID	CLIENT SAMPLE ID						

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Sample No.: ICRT 490-237912/7 Date Analyzed: 03/31/2015 17:23

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm)

Lab File ID (Standard): 033115hp37.007dat.d Heated Purge: (Y/N) N

Calibration ID: 38948

		TCX		DCB			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION SURROGATE		1369859	2.05	1363195	8.93		
UPPER LIMIT			2.15		9.03		
LOWER LIMIT			1.95		8.83		
LAB SAMPLE ID	CLIENT SAMPLE ID						

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Sample No.: CCVRT 490-241134/2 Date Analyzed: 04/14/2015 12:15

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): 041415hp37.002dat.d Heated Purge: (Y/N) N

Calibration ID: 38947

		TCX		DCB			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
CONTINUING CALIBRATION SURROGATE		147791	2.04	100137	8.36		
UPPER LIMIT		150	2.14	150	8.46		
LOWER LIMIT		10	1.94	10	8.26		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 490-239249/1-A		136060	2.04				
LCS 490-239249/2-A		135240	2.04				
490-75765-6	SDMW-7-GW-HS-040115	126884	2.04				
490-75765-7	SDMW-8-GW-HS-040115	136752	2.04	81643	8.36		

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Sample No.: CCVRT 490-241134/2 Date Analyzed: 04/14/2015 12:15

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm)

Lab File ID (Standard): 041415hp37.002dat.d Heated Purge: (Y/N) N

Calibration ID: 38948

		TCX		DCB			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
CONTINUING CALIBRATION SURROGATE		1487816	2.04	1238931	8.91		
UPPER LIMIT		150	2.14	150	9.01		
LOWER LIMIT		10	1.94	10	8.81		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 490-239249/1-A				1065131	8.91		
LCS 490-239249/2-A				1041880	8.91		
490-75765-2	SCMW-5-GW-HS-040115	1342565	2.04	792876	8.91		
490-75765-6	SDMW-7-GW-HS-040115			885255	8.91		
490-75765-10	SHMW-2-GW-HS-040115	1220968	2.04	768775	8.91		

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Client Sample ID: SCMW-5-GW-HS-040115 Lab Sample ID: 490-75765-2

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/14/2015 23:10 Date Analyzed (2): 04/14/2015 23:10

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1242	1	1	3.15	3.13	3.19	0.145	1.43	4.9
		2	3.22	3.19	3.25	1.07		
		3	3.33	3.31	3.37	2.11		
		4	3.36	3.33	3.39	1.95		
		5	3.57	3.54	3.60	1.86		
	2	1	3.30	3.28	3.34	0.638	1.50	
		2	3.41	3.38	3.44	1.01		
		3	3.50	3.48	3.54	2.08		
		4	3.55	3.52	3.58	1.90		
		5	3.79	3.76	3.82	1.87		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Client Sample ID: SDMW-7-GW-HS-040115 Lab Sample ID: 490-75765-6

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/14/2015 23:26 Date Analyzed (2): 04/14/2015 23:26

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1242	1	1	3.16	3.13	3.19	11.2	10.7	7.3
		2	3.22	3.19	3.25	13.6		
		3	3.34	3.31	3.37	9.05		
		4	3.36	3.33	3.39	9.64		
		5	3.57	3.54	3.60	10.1		
	2	1	3.31	3.28	3.34	8.82	9.97	
		2	3.41	3.38	3.44	12.8		
		3	3.50	3.48	3.54	9.40		
		4	3.55	3.52	3.58	9.17		
		5	3.79	3.76	3.82	9.72		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Client Sample ID: SDMW-8-GW-HS-040115 Lab Sample ID: 490-75765-7

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/14/2015 23:42 Date Analyzed (2): 04/14/2015 23:42

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	3.57	3.54	3.60	4.45	2.10	65.1
		2	3.66	3.63	3.69	1.99		
		3	4.02	3.99	4.05	1.38		
		4	4.05	4.02	4.08	0.574		
		5	4.27	4.24	4.30	2.12		
	2	1	3.79	3.76	3.82	7.41	4.14	
		2	3.93	3.90	3.96	4.36		
		3	4.21	4.18	4.24	2.36		
		4	4.26	4.24	4.30	5.12		
		5	4.54	4.50	4.56	1.43		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 490-239249/2-A

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/14/2015 22:55 Date Analyzed (2): 04/14/2015 22:55

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.31	2.28	2.34	4.70	4.681	6.9
		2	2.60	2.57	2.63	4.92		
		3	2.77	2.74	2.80	4.21		
		4	2.79	2.76	2.82	4.46		
		5	3.03	3.00	3.06	5.11		
	2	1	2.40	2.37	2.43	4.28	4.367	
		2	2.74	2.71	2.77	3.80		
		3	2.94	2.91	2.97	4.28		
		4	2.97	2.94	3.00	4.49		
		5	3.17	3.14	3.20	4.99		
PCB-1260	1	1	4.95	4.92	4.98	4.57	4.445	18.3
		2	5.29	5.26	5.32	4.86		
		3	5.64	5.61	5.67	4.85		
		4	6.10	6.07	6.13	3.90		
		5	6.50	6.47	6.53	4.04		
	2	1	5.53	5.50	5.56	3.78	3.699	
		2	5.99	5.96	6.02	4.38		
		3	6.50	6.47	6.53	3.37		
		4	6.59	6.56	6.62	3.78		
		5	6.83	6.80	6.86	3.18		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Client Sample ID: SCMW-5-GW-HS-040115 Lab Sample ID: 490-75765-2

Matrix: Ground Water Lab File ID: 041415hp37.044dat.d

Analysis Method: 8082A Date Collected: 04/01/2015 14:20

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1010(mL) Date Analyzed: 04/14/2015 23:10

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	1.43		0.495	0.0634
12672-29-6	PCB-1248	0.495	U	0.495	0.0683
11097-69-1	PCB-1254	0.495	U	0.495	0.00693

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Client Sample ID: SCMW-5-GW-HS-040115 Lab Sample ID: 490-75765-2

Matrix: Ground Water Lab File ID: 041415hp37.044dat.d

Analysis Method: 8082A Date Collected: 04/01/2015 14:20

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1010(mL) Date Analyzed: 04/14/2015 23:10

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-50 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	50		10-150
877-09-8	Tetrachloro-m-xylene	83		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SDMW-7-GW-HS-040115 | Lab Sample ID: 490-75765-6

Matrix: Ground Water | Lab File ID: 041415hp37.045dat.d

Analysis Method: 8082A | Date Collected: 04/01/2015 15:35

Extraction Method: 3510C | Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1030(mL) | Date Analyzed: 04/14/2015 23:26

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	10.7		0.485	0.0621
12672-29-6	PCB-1248	0.485	U	0.485	0.0670
11097-69-1	PCB-1254	0.485	U	0.485	0.00680

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	75		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Client Sample ID: SDMW-7-GW-HS-040115 Lab Sample ID: 490-75765-6

Matrix: Ground Water Lab File ID: 041415hp37.045dat.d

Analysis Method: 8082A Date Collected: 04/01/2015 15:35

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1030(mL) Date Analyzed: 04/14/2015 23:26

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-50 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	58		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: SDMW-8-GW-HS-040115 | Lab Sample ID: 490-75765-7

Matrix: Ground Water | Lab File ID: 041415hp37.046dat.d

Analysis Method: 8082A | Date Collected: 04/01/2015 15:20

Extraction Method: 3510C | Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1070(mL) | Date Analyzed: 04/14/2015 23:42

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.467	U	0.467	0.0598
12672-29-6	PCB-1248	2.10	p	0.467	0.0645
11097-69-1	PCB-1254	0.467	U	0.467	0.00654

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	65	p	10-150
877-09-8	Tetrachloro-m-xylene	84	p	10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Client Sample ID: SHMW-2-GW-HS-040115 Lab Sample ID: 490-75765-10

Matrix: Ground Water Lab File ID: 041415hp37.047dat.d

Analysis Method: 8082A Date Collected: 04/01/2015 11:05

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1070(mL) Date Analyzed: 04/14/2015 23:57

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.467	U	0.467	0.0598
12672-29-6	PCB-1248	0.467	U	0.467	0.0645
11097-69-1	PCB-1254	0.467	U	0.467	0.00654

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Client Sample ID: SHMW-2-GW-HS-040115 Lab Sample ID: 490-75765-10

Matrix: Ground Water Lab File ID: 041415hp37.047dat.d

Analysis Method: 8082A Date Collected: 04/01/2015 11:05

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1070(mL) Date Analyzed: 04/14/2015 23:57

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-50 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	47		10-150
877-09-8	Tetrachloro-m-xylene	73		10-150

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 01:54 Calibration End Date: 03/31/2015 03:27 Calibration ID: 38921

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/25	033015hp37.025dat.d
Level 2	IC 490-237639/26	033015hp37.026dat.d
Level 3	IC 490-237639/27	033015hp37.027dat.d
Level 4	IC 490-237639/28	033015hp37.028dat.d
Level 5	ICIS 490-237639/29	033015hp37.029dat.d
Level 6	IC 490-237639/30	033015hp37.030dat.d
Level 7	IC 490-237639/31	033015hp37.031dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1221 Peak 1	0.0206 0.0154	0.0192 0.0157	0.0175	0.0173	0.0161	Lin2	0.0001	0.0161							0.9980		0.9900
PCB-1221 Peak 2	0.0536 0.0356	0.0492 0.0364	0.0419	0.0388	0.0378	Lin2	0.0005	0.0372							0.9980		0.9900
PCB-1221 Peak 3	0.0086 0.0054	0.0063 0.0057	0.0066	0.0060	0.0057	Lin2	0.0001	0.0057							0.9900		0.9900
PCB-1254 Peak 1	0.0713 0.0519	0.0548 0.0551	0.0580	0.0496	0.0518	Lin2	0.0005	0.0518							0.9930		0.9900
PCB-1254 Peak 2	0.1273 0.0889	0.1013 0.0941	0.0962	0.0870	0.0885	Lin2	0.0010	0.0885							0.9960		0.9900
PCB-1254 Peak 3	0.0991 0.0685	0.0821 0.0721	0.0743	0.0652	0.0678	Lin2	0.0009	0.0678							0.9970		0.9900
PCB-1254 Peak 4	0.0926 0.0638	0.0727 0.0673	0.0698	0.0635	0.0636	Lin2	0.0008	0.0637							0.9960		0.9900
PCB-1254 Peak 5	0.1359 0.0944	0.1059 0.0989	0.1016	0.0919	0.0931	Lin2	0.0011	0.0932							0.9960		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 01:54 Calibration End Date: 03/31/2015 03:27 Calibration ID: 38921

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/25	033015hp37.025dat.d
Level 2	IC 490-237639/26	033015hp37.026dat.d
Level 3	IC 490-237639/27	033015hp37.027dat.d
Level 4	IC 490-237639/28	033015hp37.028dat.d
Level 5	ICIS 490-237639/29	033015hp37.029dat.d
Level 6	IC 490-237639/30	033015hp37.030dat.d
Level 7	IC 490-237639/31	033015hp37.031dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	BNB	Lin2	471 23337	568 37232	2566	6306	11610	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1221 Peak 2	BNB	Lin2	1223 53921	1454 86150	6154	14171	27293	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1221 Peak 3	BNB	Lin2	196 8126	185 13550	967	2201	4118	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 1	BNB	Lin2	1628 78698	1620 130588	8513	18131	37396	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 2	BNB	Lin2	2904 134838	2992 222866	14123	31763	63890	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 3	BNB	Lin2	2261 103901	2425 170829	10914	23824	48980	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 4	BNB	Lin2	2113 96689	2149 159372	10247	23186	45911	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 5	BNB	Lin2	3101 143202	3130 234229	14916	33573	67183	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 01:54 Calibration End Date: 03/31/2015 03:27 Calibration ID: 38922

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/25	033015hp37.025dat.d
Level 2	IC 490-237639/26	033015hp37.026dat.d
Level 3	IC 490-237639/27	033015hp37.027dat.d
Level 4	IC 490-237639/28	033015hp37.028dat.d
Level 5	ICIS 490-237639/29	033015hp37.029dat.d
Level 6	IC 490-237639/30	033015hp37.030dat.d
Level 7	IC 490-237639/31	033015hp37.031dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1221 Peak 1	0.0669 0.0524	0.0617 0.0548	0.0531	0.0521	0.0504	Lin2	0.0005	0.0519							0.9990		0.9900
PCB-1221 Peak 2	0.1610 0.1218	0.1461 0.1265	0.1255	0.1225	0.1164	Lin2	0.0012	0.1205							0.9990		0.9900
PCB-1221 Peak 3	0.0273 0.0188	0.0230 0.0196	0.0190	0.0172	0.0177	Lin2	0.0003	0.0180							0.9970		0.9900
PCB-1254 Peak 1	0.3258 0.2447	0.3090 0.2135	0.2540	0.2426	0.2331	Lin2	0.0031	0.2331							0.9960		0.9900
PCB-1254 Peak 2	0.4603 0.3096	0.4255 +++++	0.3615	0.3512	0.3418	Lin2	0.0041	0.3331							0.9970		0.9900
PCB-1254 Peak 3	0.3445 0.2634	0.3205 0.2256	0.2646	0.2562	0.2469	Lin2	0.0032	0.2466							0.9970		0.9900
PCB-1254 Peak 4	0.1830 0.1525	0.1793 0.1655	0.1459	0.1442	0.1355	Lin2	0.0012	0.1477							0.9930		0.9900
PCB-1254 Peak 5	0.3790 0.3077	0.3579 0.2612	0.3013	0.2966	0.2883	Ave		0.3132				13.1		20.0			0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 01:54 Calibration End Date: 03/31/2015 03:27 Calibration ID: 38922

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/25	033015hp37.025dat.d
Level 2	IC 490-237639/26	033015hp37.026dat.d
Level 3	IC 490-237639/27	033015hp37.027dat.d
Level 4	IC 490-237639/28	033015hp37.028dat.d
Level 5	ICIS 490-237639/29	033015hp37.029dat.d
Level 6	IC 490-237639/30	033015hp37.030dat.d
Level 7	IC 490-237639/31	033015hp37.031dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	BNB	Lin2	5965 295383	8445 461096	30600	75657	145798	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1221 Peak 2	BNB	Lin2	14356 686378	20007 1064944	72339	177808	336626	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1221 Peak 3	BNB	Lin2	2433 105911	3154 164633	10952	25033	51050	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 1	BNB	Lin2	29054 1378800	42313 1797354	146423	352205	673921	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 2	BNB	Lin2	41054 1744634	58271 +++++	208439	509870	988392	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1254 Peak 3	BNB	Lin2	30728 1484298	43896 1899009	152584	371980	713854	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 4	BNB	Lin2	16321 859051	24551 1392911	84129	209357	391938	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 5	BNB	Ave	33802 1733842	49012 2198738	173742	430628	833785	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 03:59 Calibration End Date: 03/31/2015 05:31 Calibration ID: 38927

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/33	033015hp37.033dat.d
Level 2	IC 490-237639/34	033015hp37.034dat.d
Level 3	IC 490-237639/35	033015hp37.035dat.d
Level 4	IC 490-237639/36	033015hp37.036dat.d
Level 5	ICIS 490-237639/37	033015hp37.037dat.d
Level 6	IC 490-237639/38	033015hp37.038dat.d
Level 7	IC 490-237639/39	033015hp37.039dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1232 Peak 1	0.0494 0.0320	0.0440 0.0320	0.0414	0.0355	0.0334	Lin2	0.0005	0.0339							0.9930		0.9900
PCB-1232 Peak 2	0.0381 0.0262	0.0350 0.0260	0.0333	0.0287	0.0268	Lin2	0.0003	0.0275							0.9930		0.9900
PCB-1232 Peak 3	0.0350 0.0229	0.0300 0.0219	0.0275	0.0232	0.0230	Lin2	0.0004	0.0230							0.9960		0.9900
PCB-1232 Peak 4	0.0449 0.0313	0.0436 0.0320	0.0397	0.0342	0.0319	Lin2	0.0004	0.0332							0.9920		0.9900
PCB-1232 Peak 5	0.0340 0.0228	0.0304 0.0223	0.0288	0.0245	0.0232	Lin2	0.0003	0.0237							0.9940		0.9900
PCB-1262 Peak 1	0.1139 0.0870	0.1131 0.0880	0.0996	0.0885	0.0880	Lin2	0.0009	0.0890							0.9970		0.9900
PCB-1262 Peak 2	0.2357 0.1741	0.2223 0.1785	0.2003	0.1780	0.1765	Lin2	0.0019	0.1784							0.9980		0.9900
PCB-1262 Peak 3	0.0970 0.0790	0.1046 0.0836	0.0908	0.0803	0.0835	Lin2	0.0006	0.0831							0.9940		0.9900
PCB-1262 Peak 4	0.0415 0.0298	0.0405 0.0310	0.0351	0.0303	0.0325	Lin2	0.0004	0.0312							0.9960		0.9900
PCB-1262 Peak 5	0.0354 0.0224	0.0358 0.0233	0.0294	0.0251	0.0244	Lin1	0.0006	0.0231							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 03:59 Calibration End Date: 03/31/2015 05:31 Calibration ID: 38927

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/33	033015hp37.033dat.d
Level 2	IC 490-237639/34	033015hp37.034dat.d
Level 3	IC 490-237639/35	033015hp37.035dat.d
Level 4	IC 490-237639/36	033015hp37.036dat.d
Level 5	ICIS 490-237639/37	033015hp37.037dat.d
Level 6	IC 490-237639/38	033015hp37.038dat.d
Level 7	IC 490-237639/39	033015hp37.039dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	BNB	Lin2	1141 53205	1739 71457	6455	13626	26031	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 2	BNB	Lin2	879 43571	1384 58049	5198	11023	20915	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 3	BNB	Lin2	807 38081	1186 48990	4286	8903	17940	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 4	BNB	Lin2	1037 52050	1723 71455	6198	13127	24885	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 5	BNB	Lin2	785 37878	1203 49969	4492	9415	18079	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 1	BNB	Lin2	2628 144468	4471 196677	15544	33950	68633	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 2	BNB	Lin2	5439 289136	8787 399078	31252	68299	137672	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 3	BNB	Lin2	2239 131228	4133 186948	14167	30793	65132	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 4	BNB	Lin2	958 49510	1599 69305	5480	11636	25311	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 5	BNB	Lin1	818 37152	1414 52154	4592	9613	19014	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:

Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 03:59 Calibration End Date: 03/31/2015 05:31 Calibration ID: 38928

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/33	033015hp37.033dat.d
Level 2	IC 490-237639/34	033015hp37.034dat.d
Level 3	IC 490-237639/35	033015hp37.035dat.d
Level 4	IC 490-237639/36	033015hp37.036dat.d
Level 5	ICIS 490-237639/37	033015hp37.037dat.d
Level 6	IC 490-237639/38	033015hp37.038dat.d
Level 7	IC 490-237639/39	033015hp37.039dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1232 Peak 1	0.1329 0.1118	0.1211 0.1036	0.1199	0.1035	0.1041	Ave		0.1139				9.9		20.0			0.9900
PCB-1232 Peak 2	0.1204 0.1035	0.1100 0.0953	0.1095	0.0943	0.0948	Ave		0.1040				9.5		20.0			0.9900
PCB-1232 Peak 3	0.0964 0.0881	0.0916 0.0841	0.0923	0.0792	0.0790	Ave		0.0872				7.7		20.0			0.9900
PCB-1232 Peak 4	0.1280 0.1228	0.1208 0.1108	0.1233	0.1099	0.1112	Ave		0.1181				6.2		20.0			0.9900
PCB-1232 Peak 5	0.0531 0.0504	0.0500 0.0468	0.0514	0.0444	0.0452	Ave		0.0487				6.8		20.0			0.9900
PCB-1262 Peak 1	0.3985 0.3208	0.3618 +++++	0.3751	0.3263	0.3331	Ave		0.3526				8.8		20.0			0.9900
PCB-1262 Peak 2	0.7954 +++++	0.7339 +++++	0.7596	0.6676	0.6329	Ave		0.7179				9.3		20.0			0.9900
PCB-1262 Peak 3	0.5632 0.4629	0.5259 +++++	0.5360	0.4713	0.4793	Ave		0.5064				8.1		20.0			0.9900
PCB-1262 Peak 4	0.1052 0.0969	0.0980 0.0946	0.1036	0.0898	0.0913	Ave		0.0970				6.0		20.0			0.9900
PCB-1262 Peak 5	0.0928 0.0776	0.0828 0.0774	0.0838	0.0741	0.0750	Ave		0.0805				8.1		20.0			0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 03:59 Calibration End Date: 03/31/2015 05:31 Calibration ID: 38928

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/33	033015hp37.033dat.d
Level 2	IC 490-237639/34	033015hp37.034dat.d
Level 3	IC 490-237639/35	033015hp37.035dat.d
Level 4	IC 490-237639/36	033015hp37.036dat.d
Level 5	ICIS 490-237639/37	033015hp37.037dat.d
Level 6	IC 490-237639/38	033015hp37.038dat.d
Level 7	IC 490-237639/39	033015hp37.039dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	BNB	Ave	11454 653586	17831 892935	68958	154741	307692	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 2	BNB	Ave	10373 605040	16200 821332	62936	141013	280233	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 3	BNB	Ave	8306 515065	13488 725102	53062	118394	233509	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 4	BNB	Ave	11033 717728	17789 954786	70871	164262	328765	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 5	BNB	Ave	4575 294475	7358 402899	29549	66432	133623	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 1	BNB	Ave	34346 1875448	53272 +++++	215653	487773	984494	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1262 Peak 2	BNB	Ave	68556 +++++	108061 +++++	436681	997904	1870963	0.0300 +++++	0.0500 +++++	0.200	0.500	1.00
PCB-1262 Peak 3	BNB	Ave	48540 2706143	77434 +++++	308166	704528	1416814	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1262 Peak 4	BNB	Ave	9063 566536	14430 814802	59568	134172	269996	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 5	BNB	Ave	7999 453607	12189 666619	48186	110804	221651	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Ave = Average ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 06:02 Calibration End Date: 03/31/2015 07:35 Calibration ID: 38933

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/41	033015hp37.041dat.d
Level 2	IC 490-237639/42	033015hp37.042dat.d
Level 3	IC 490-237639/43	033015hp37.043dat.d
Level 4	IC 490-237639/44	033015hp37.044dat.d
Level 5	ICIS 490-237639/45	033015hp37.045dat.d
Level 6	IC 490-237639/46	033015hp37.046dat.d
Level 7	IC 490-237639/47	033015hp37.047dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1242 Peak 1	+++++ 0.0301	0.0489 0.0309	0.0402	0.0358	0.0333	Lin2	0.0009	0.0323							0.9940		0.9900
PCB-1242 Peak 2	+++++ 0.0227	0.0354 0.0231	0.0293	0.0276	0.0244	Lin2	0.0006	0.0242							0.9940		0.9900
PCB-1242 Peak 3	+++++ 0.0182	0.0292 0.0182	0.0244	0.0218	0.0197	Lin2	0.0005	0.0194							0.9920		0.9900
PCB-1242 Peak 4	+++++ 0.0191	0.0326 0.0196	0.0260	0.0231	0.0207	Lin2	0.0006	0.0204							0.9930		0.9900
PCB-1242 Peak 5	+++++ 0.0271	0.0453 0.0279	0.0367	0.0326	0.0294	Lin2	0.0009	0.0291							0.9930		0.9900
PCB-1268 Peak 1	0.2670 0.1844	0.2574 0.1888	0.2140	0.2022	0.1994	Lin2	0.0025	0.1943							0.9970		0.9900
PCB-1268 Peak 2	0.2581 0.1815	0.2439 0.1857	0.2027	0.1918	0.1902	Lin2	0.0023	0.1870							0.9990		0.9900
PCB-1268 Peak 3	0.2217 0.1494	0.2040 0.1533	0.1697	0.1625	0.1598	Lin2	0.0021	0.1556							0.9990		0.9900
PCB-1268 Peak 4	0.1089 0.0675	0.0935 0.0685	0.0808	0.0746	0.0737	Lin2	0.0012	0.0708							0.9980		0.9900
PCB-1268 Peak 5	0.6296 0.4710	0.5947 0.4710	0.5073	0.4938	0.4994	Lin2	0.0048	0.4814							0.9990		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 06:02 Calibration End Date: 03/31/2015 07:35 Calibration ID: 38933

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/41	033015hp37.041dat.d
Level 2	IC 490-237639/42	033015hp37.042dat.d
Level 3	IC 490-237639/43	033015hp37.043dat.d
Level 4	IC 490-237639/44	033015hp37.044dat.d
Level 5	ICIS 490-237639/45	033015hp37.045dat.d
Level 6	IC 490-237639/46	033015hp37.046dat.d
Level 7	IC 490-237639/47	033015hp37.047dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	BNB	Lin2	+++++ 44070	1913 67689	6054	13515	24069	+++++ 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 2	BNB	Lin2	+++++ 33187	1385 50566	4408	10423	17627	+++++ 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 3	BNB	Lin2	+++++ 26653	1143 39804	3663	8230	14235	+++++ 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 4	BNB	Lin2	+++++ 27924	1277 42946	3906	8741	14997	+++++ 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 5	BNB	Lin2	+++++ 39740	1772 61208	5522	12308	21265	+++++ 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 1	BNB	Lin2	6079 270147	10078 413676	32190	76354	144158	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 2	BNB	Lin2	5877 265838	9548 406836	30495	72427	137518	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 3	BNB	Lin2	5049 218946	7988 335800	25534	61359	115556	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 4	BNB	Lin2	2479 98851	3662 150172	12149	28183	53275	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 5	BNB	Lin2	14337 690071	23283 1032065	76312	186472	361087	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 06:02 Calibration End Date: 03/31/2015 07:35 Calibration ID: 38934

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/41	033015hp37.041dat.d
Level 2	IC 490-237639/42	033015hp37.042dat.d
Level 3	IC 490-237639/43	033015hp37.043dat.d
Level 4	IC 490-237639/44	033015hp37.044dat.d
Level 5	ICIS 490-237639/45	033015hp37.045dat.d
Level 6	IC 490-237639/46	033015hp37.046dat.d
Level 7	IC 490-237639/47	033015hp37.047dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1242 Peak 1	0.1532 0.1253	0.1517 0.1290	0.1444	0.1429	0.1304	Ave		0.1395				8.1		20.0			0.9900
PCB-1242 Peak 2	0.0931 0.0786	0.0938 0.0814	0.0886	0.0890	0.0815	Ave		0.0866				7.0		20.0			0.9900
PCB-1242 Peak 3	0.0922 0.0724	0.0898 0.0748	0.0856	0.0836	0.0756	Ave		0.0820				9.5		20.0			0.9900
PCB-1242 Peak 4	0.0958 0.0757	0.0929 0.0792	0.0900	0.0878	0.0792	Ave		0.0858				9.1		20.0			0.9900
PCB-1242 Peak 5	0.1324 0.1059	0.1270 0.1087	0.1211	0.1200	0.1103	Ave		0.1179				8.5		20.0			0.9900
PCB-1268 Peak 1	0.2123 0.1668	0.1995 0.1728	0.1922	0.1876	0.1683	Ave		0.1856				9.2		20.0			0.9900
PCB-1268 Peak 2	0.8029 +++++	0.7847 +++++	0.7422	0.7437	0.6805	Ave		0.7508				6.3		20.0			0.9900
PCB-1268 Peak 3	0.6568 +++++	0.6478 +++++	0.5831	0.6188	0.5743	Ave		0.6162				6.0		20.0			0.9900
PCB-1268 Peak 4	0.2998 0.2527	0.3020 +++++	0.2805	0.2762	0.2561	Ave		0.2779				7.5		20.0			0.9900
PCB-1268 Peak 5	0.4363 0.3237	0.4157 +++++	0.3828	0.3715	0.3501	Ave		0.3800				10.9		20.0			0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1 | Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 | GC Column: RTX-50 | ID: 0.32(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 06:02 | Calibration End Date: 03/31/2015 07:35 | Calibration ID: 38934

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/41	033015hp37.041dat.d
Level 2	IC 490-237639/42	033015hp37.042dat.d
Level 3	IC 490-237639/43	033015hp37.043dat.d
Level 4	IC 490-237639/44	033015hp37.044dat.d
Level 5	ICIS 490-237639/45	033015hp37.045dat.d
Level 6	IC 490-237639/46	033015hp37.046dat.d
Level 7	IC 490-237639/47	033015hp37.047dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	BNB	Ave	13631 755257	22321 1144395	86664	211126	387779	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 2	BNB	Ave	8283 474085	13801 721862	53142	131527	242439	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 3	BNB	Ave	8204 436425	13214 663731	51349	123565	224786	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 4	BNB	Ave	8527 456195	13676 703146	53984	129702	235346	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 5	BNB	Ave	11785 638257	18694 964378	72660	177293	327908	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 1	BNB	Ave	18894 1005881	29363 1533541	115310	277225	500421	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 2	BNB	Ave	71458 +++++	115485 +++++	445353	1099034	2023386	0.0300 +++++	0.0500 +++++	0.200	0.500	1.00
PCB-1268 Peak 3	BNB	Ave	58449 +++++	95346 +++++	349919	914490	1707461	0.0300 +++++	0.0500 +++++	0.200	0.500	1.00
PCB-1268 Peak 4	BNB	Ave	26678 1523524	44455 +++++	168292	408206	761506	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1268 Peak 5	BNB	Ave	38824 1951716	61177 +++++	229702	548936	1040897	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00

Curve Type Legend:
Ave = Average ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 08:07 Calibration End Date: 03/31/2015 09:40 Calibration ID: 38939

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/49	033015hp37.049dat.d
Level 2	IC 490-237639/50	033015hp37.050dat.d
Level 3	IC 490-237639/51	033015hp37.051dat.d
Level 4	IC 490-237639/52	033015hp37.052dat.d
Level 5	ICIS 490-237639/53	033015hp37.053dat.d
Level 6	IC 490-237639/54	033015hp37.054dat.d
Level 7	IC 490-237639/55	033015hp37.055dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1248 Peak 1	0.0821 0.0447	0.0695 0.0480	0.0546	0.0512	0.0507	Lin2	0.0010	0.0480							0.9980		0.9900
PCB-1248 Peak 2	0.0540 0.0296	0.0460 0.0319	0.0340	0.0334	0.0330	Lin2	0.0007	0.0312							0.9980		0.9900
PCB-1248 Peak 3	0.0742 0.0525	0.0766 0.0572	0.0616	0.0576	0.0573	Lin2	0.0007	0.0566							0.9940		0.9900
PCB-1248 Peak 4	0.0672 0.0471	0.0691 0.0512	0.0545	0.0534	0.0543	Lin2	0.0006	0.0516							0.9940		0.9900
PCB-1248 Peak 5	0.0557 0.0428	0.0604 0.0465	0.0502	0.0472	0.0481	Lin2	0.0004	0.0467							0.9930		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 08:07 Calibration End Date: 03/31/2015 09:40 Calibration ID: 38939

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/49	033015hp37.049dat.d
Level 2	IC 490-237639/50	033015hp37.050dat.d
Level 3	IC 490-237639/51	033015hp37.051dat.d
Level 4	IC 490-237639/52	033015hp37.052dat.d
Level 5	ICIS 490-237639/53	033015hp37.053dat.d
Level 6	IC 490-237639/54	033015hp37.054dat.d
Level 7	IC 490-237639/55	033015hp37.055dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	BNB	Lin2	1813 67054	2559 116906	8627	19559	40157	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 2	BNB	Lin2	1193 44376	1694 77661	5362	12743	26162	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 3	BNB	Lin2	1639 78830	2821 139388	9734	21983	45365	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 4	BNB	Lin2	1485 70653	2545 124933	8610	20373	43041	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 5	BNB	Lin2	1230 64194	2225 113342	7926	17999	38059	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 08:07 Calibration End Date: 03/31/2015 09:40 Calibration ID: 38940

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/49	033015hp37.049dat.d
Level 2	IC 490-237639/50	033015hp37.050dat.d
Level 3	IC 490-237639/51	033015hp37.051dat.d
Level 4	IC 490-237639/52	033015hp37.052dat.d
Level 5	ICIS 490-237639/53	033015hp37.053dat.d
Level 6	IC 490-237639/54	033015hp37.054dat.d
Level 7	IC 490-237639/55	033015hp37.055dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1248 Peak 1	0.2128 0.1638	0.1960 0.1726	0.2099	0.1770	0.1840	Ave		0.1880				10.0		20.0			0.9900
PCB-1248 Peak 2	0.1875 0.1486	0.1735 0.1715	0.1880	0.1600	0.1669	Ave		0.1709				8.3		20.0			0.9900
PCB-1248 Peak 3	0.2426 0.1932	0.2265 +++++	0.2462	0.2087	0.2161	Ave		0.2222				9.2		20.0			0.9900
PCB-1248 Peak 4	0.2651 0.2128	0.2487 +++++	0.2715	0.2296	0.2384	Ave		0.2444				9.0		20.0			0.9900
PCB-1248 Peak 5	0.2507 0.2050	0.2330 0.2377	0.2576	0.2212	0.2294	Ave		0.2335				7.6		20.0			0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 08:07 Calibration End Date: 03/31/2015 09:40 Calibration ID: 38940

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/49	033015hp37.049dat.d
Level 2	IC 490-237639/50	033015hp37.050dat.d
Level 3	IC 490-237639/51	033015hp37.051dat.d
Level 4	IC 490-237639/52	033015hp37.052dat.d
Level 5	ICIS 490-237639/53	033015hp37.053dat.d
Level 6	IC 490-237639/54	033015hp37.054dat.d
Level 7	IC 490-237639/55	033015hp37.055dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	BNB	Ave	19332 1010990	29907 1547130	123983	269777	548211	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 2	BNB	Ave	17036 917351	26477 1537443	111042	243952	497265	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 3	BNB	Ave	22037 1192256	34556 +++++	145415	318213	643985	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1248 Peak 4	BNB	Ave	24081 1313492	37950 +++++	160353	350040	710512	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1248 Peak 5	BNB	Ave	22775 1264951	35562 2130598	152133	337276	683613	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Ave = Average ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 237912

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 16:21 Calibration End Date: 03/31/2015 17:54 Calibration ID: 38947

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237912/3	033115hp37.003dat.d
Level 2	IC 490-237912/4	033115hp37.004dat.d
Level 3	IC 490-237912/5	033115hp37.005dat.d
Level 4	IC 490-237912/6	033115hp37.006dat.d
Level 5	ICRT 490-237912/7	033115hp37.007dat.d
Level 6	IC 490-237912/8	033115hp37.008dat.d
Level 7	IC 490-237912/9	033115hp37.009dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0374 0.0237	0.0333 0.0229	0.0326	0.0280	0.0253	Lin1	0.0006	0.0237							0.9950		0.9900
PCB-1016 Peak 2	0.0810 0.0479	0.0694 0.0469	0.0660	0.0566	0.0517	Lin1	0.0013	0.0481							0.9960		0.9900
PCB-1016 Peak 3	0.0219 0.0132	0.0177 0.0131	0.0192	0.0160	0.0146	Lin1	0.0003	0.0134							0.9930		0.9900
PCB-1016 Peak 4	0.0346 0.0203	0.0284 0.0197	0.0270	0.0240	0.0214	Lin2	0.0004	0.0216							0.9900		0.9900
PCB-1016 Peak 5	0.1016 0.0582	0.0902 0.0599	0.0767	0.0700	0.0632	Lin2	0.0012	0.0634							0.9930		0.9900
PCB-1260 Peak 1	0.0984 0.0620	0.0881 0.0594	0.0800	0.0699	0.0643	Lin2	0.0011	0.0651							0.9920		0.9900
PCB-1260 Peak 2	0.1469 0.0940	0.1256 0.0906	0.1195	0.1054	0.0968	Lin2	0.0015	0.0980							0.9930		0.9900
PCB-1260 Peak 3	0.1262 0.0808	0.1117 0.0812	0.1043	0.0912	0.0848	Lin2	0.0013	0.0859							0.9930		0.9900
PCB-1260 Peak 4	0.0898 0.0613	0.0748 0.0594	0.0780	0.0679	0.0636	Lin2	0.0007	0.0641							0.9910		0.9900
PCB-1260 Peak 5	0.1974 0.1364	0.1767 0.1335	0.1632	0.1461	0.1392	Lin2	0.0018	0.1402							0.9970		0.9900
Tetrachloro-m-xylene	2.0179 1.3554	1.7853 1.3487	1.6826	1.4906	1.4130	Lin2	0.0019	1.4198							0.9950		0.9900
DCB Decachlorobiphenyl (Surr)	1.6262 1.0977	1.5759 1.0536	1.3205	1.1574	1.1102	Lin1	0.0023	1.0731							0.9990		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 237912

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 16:21 Calibration End Date: 03/31/2015 17:54 Calibration ID: 38947

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237912/3	033115hp37.003dat.d
Level 2	IC 490-237912/4	033115hp37.004dat.d
Level 3	IC 490-237912/5	033115hp37.005dat.d
Level 4	IC 490-237912/6	033115hp37.006dat.d
Level 5	ICRT 490-237912/7	033115hp37.007dat.d
Level 6	IC 490-237912/8	033115hp37.008dat.d
Level 7	IC 490-237912/9	033115hp37.009dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Lin1	829 31020	1158 44220	4325	9934	16134	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 2	BNB	Lin1	1793 62679	2414 90518	8761	20069	32913	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 3	BNB	Lin1	484 17207	615 25191	2544	5672	9301	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 4	BNB	Lin2	765 26548	988 37942	3584	8491	13603	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 5	BNB	Lin2	2250 76139	3139 115598	10191	24815	40254	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 1	BNB	Lin2	2179 81058	3068 114578	10625	24791	40962	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 2	BNB	Lin2	3251 122904	4373 174824	15869	37376	61699	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 3	BNB	Lin2	2794 105654	3888 156723	13852	32321	54030	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 4	BNB	Lin2	1989 80190	2603 114616	10361	24056	40540	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 5	BNB	Lin2	4369 178332	6152 257555	21671	51780	88668	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
Tetrachloro-m-xylene	BNB	Lin2	4467 177274	6214 260150	22349	52838	90020	0.00300 0.200	0.00500 0.300	0.0200	0.0500	0.100
DCB Decachlorobiphenyl (Surr)	BNB	Lin1	3600 143565	5485 203232	17539	41025	70732	0.00300 0.200	0.00500 0.300	0.0200	0.0500	0.100

Curve Type Legend:

Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 237912

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 16:21 Calibration End Date: 03/31/2015 17:54 Calibration ID: 38948

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237912/3	033115hp37.003dat.d
Level 2	IC 490-237912/4	033115hp37.004dat.d
Level 3	IC 490-237912/5	033115hp37.005dat.d
Level 4	IC 490-237912/6	033115hp37.006dat.d
Level 5	ICRT 490-237912/7	033115hp37.007dat.d
Level 6	IC 490-237912/8	033115hp37.008dat.d
Level 7	IC 490-237912/9	033115hp37.009dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.1362 0.0797	0.1066 0.0781	0.1044	0.0991	0.0848	Lin1	0.0020	0.0803							0.9950		0.9900
PCB-1016 Peak 2	0.1873 0.1266	0.1535 0.1207	0.1672	0.1553	0.1332	Lin1	0.0026	0.1261							0.9930		0.9900
PCB-1016 Peak 3	0.0785 0.0533	0.0635 0.0528	0.0678	0.0654	0.0556	Lin1	0.0010	0.0539							0.9960		0.9900
PCB-1016 Peak 4	0.1026 0.0695	0.0845 0.0675	0.0895	0.0851	0.0732	Lin1	0.0013	0.0698							0.9950		0.9900
PCB-1016 Peak 5	0.3136 0.2186	0.2682 +++++	0.2918	0.2708	0.2409	Lin1	0.0035	0.2311							0.9920		0.9900
PCB-1260 Peak 1	0.4465 +++++	0.3855 +++++	0.4042	0.3813	0.3337	Lin2	0.0022	0.3626							0.9920		0.9900
PCB-1260 Peak 2	0.4101 0.2951	0.3553 +++++	0.3749	0.3499	0.3080	Lin2	0.0025	0.3234							0.9910		0.9900
PCB-1260 Peak 3	0.3426 0.2573	0.3043 +++++	0.3176	0.3034	0.2698	Lin2	0.0018	0.2809							0.9930		0.9900
PCB-1260 Peak 4	0.1644 0.1272	0.1494 0.1224	0.1533	0.1470	0.1304	Lin2	0.0009	0.1336							0.9930		0.9900
PCB-1260 Peak 5	0.7705 +++++	0.6876 +++++	0.7197	0.6842	0.5834	Ave		0.6891				9.9		20.0			0.9900
Tetrachloro-m-xylene	6.0985 +++++	5.1828 +++++	5.5112	5.2110	4.3545	Lin1	0.0052	4.6310							0.9900		0.9900
DCB Decachlorobiphenyl (Surr)	5.8304 +++++	5.1338 +++++	4.9319	4.6091	4.3333	Lin2	0.0039	4.4926							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75765-1 Analy Batch No.: 237912

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 16:21 Calibration End Date: 03/31/2015 17:54 Calibration ID: 38948

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237912/3	033115hp37.003dat.d
Level 2	IC 490-237912/4	033115hp37.004dat.d
Level 3	IC 490-237912/5	033115hp37.005dat.d
Level 4	IC 490-237912/6	033115hp37.006dat.d
Level 5	ICRT 490-237912/7	033115hp37.007dat.d
Level 6	IC 490-237912/8	033115hp37.008dat.d
Level 7	IC 490-237912/9	033115hp37.009dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Lin1	12372 500749	16627 741152	64072	152049	266884	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 2	BNB	Lin1	17022 795243	23945 1145890	102562	238210	419115	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 3	BNB	Lin1	7129 334686	9912 501142	41572	100346	174961	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 4	BNB	Lin1	9322 436396	13187 641069	54895	130571	230306	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 5	BNB	Lin1	28495 1373232	41841 +++++	179020	415336	757745	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1260 Peak 1	BNB	Lin2	40566 +++++	60137 +++++	247976	584893	1049801	0.0300 +++++	0.0500 +++++	0.200	0.500	1.00
PCB-1260 Peak 2	BNB	Lin2	37262 1853454	55420 +++++	230003	536615	968793	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1260 Peak 3	BNB	Lin2	31125 1616062	47460 +++++	194866	465267	848673	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1260 Peak 4	BNB	Lin2	14934 798722	23298 1162112	94056	225387	410140	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 5	BNB	Ave	70012 +++++	107257 +++++	441558	1049475	1835302	0.0300 +++++	0.0500 +++++	0.200	0.500	1.00
Tetrachloro-m-xylene	BNB	Lin1	55412 +++++	80843 +++++	338106	799243	1369859	0.00300 +++++	0.00500 +++++	0.0200	0.0500	0.100
DCB Decachlorobiphenyl (Surr)	BNB	Lin2	52976 +++++	80078 +++++	302568	706923	1363195	0.00300 +++++	0.00500 +++++	0.0200	0.0500	0.100

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID (1): ICV 490-237912/10 Instrument ID (1): HP37

GC Column (1): RTX-5 ID: 0.32(mm) Date Analyzed (1): 03/31/2015 18:10

ANALYTE	RT	RESOLUTION (%)
PCB-1016		100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID (2): ICV 490-237912/10 Instrument ID (2): HP37

GC Column (2): RTX-50 ID: 0.32(mm) Date Analyzed (2): 03/31/2015 18:10

ANALYTE	RT	RESOLUTION (%)
PCB-1016		100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID (1): CCVRT 490-241134/2 Instrument ID (1): HP37

GC Column (1): RTX-5 ID: 0.32(mm) Date Analyzed (1): 04/14/2015 12:15

ANALYTE	RT	RESOLUTION (%)
PCB-1016		100.0
PCB-1260		100.0
Tetrachloro-m-xylene	2.04	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID (2): CCVRT 490-241134/2 Instrument ID (2): HP37

GC Column (2): RTX-50 ID: 0.32(mm) Date Analyzed (2): 04/14/2015 12:15

ANALYTE	RT	RESOLUTION (%)
PCB-1016		100.0
PCB-1260		100.0
Tetrachloro-m-xylene	2.04	100.0

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: ICV 490-237912/10 Calibration Date: 03/31/2015 18:10

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 033115hp37.010dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0256		1.05	1.00	5.3	20.0
PCB-1016 Peak 2	Lin1		0.0530		1.07	1.00	7.3	20.0
PCB-1016 Peak 3	Lin1		0.0155		1.13	1.00	13.0	20.0
PCB-1016 Peak 4	Lin2		0.0216		0.982	1.00	-1.9	20.0
PCB-1016 Peak 5	Lin2		0.0638		0.987	1.00	-1.3	20.0
PCB-1260 Peak 1	Lin2		0.0668		1.01	1.00	1.0	20.0
PCB-1260 Peak 2	Lin2		0.1010		1.02	1.00	1.5	20.0
PCB-1260 Peak 3	Lin2		0.0926		1.06	1.00	6.3	20.0
PCB-1260 Peak 4	Lin2		0.0578		0.889	1.00	-11.1	20.0
PCB-1260 Peak 5	Lin2		0.1255		0.882	1.00	-11.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: ICV 490-237912/10 Calibration Date: 03/31/2015 18:10

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 033115hp37.010dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.32	2.29	2.35
PCB-1016 Peak 2	2.62	2.59	2.65
PCB-1016 Peak 3	2.78	2.75	2.81
PCB-1016 Peak 4	2.81	2.78	2.84
PCB-1016 Peak 5	3.05	3.02	3.08
PCB-1260 Peak 1	4.97	4.94	5.00
PCB-1260 Peak 2	5.31	5.28	5.34
PCB-1260 Peak 3	5.66	5.63	5.69
PCB-1260 Peak 4	6.13	6.10	6.16
PCB-1260 Peak 5	6.53	6.50	6.56

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: ICV 490-237912/10 Calibration Date: 03/31/2015 18:10

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 033115hp37.010dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0804		0.976	1.00	-2.4	20.0
PCB-1016 Peak 2	Lin1		0.1287		1.00	1.00	0.0	20.0
PCB-1016 Peak 3	Lin1		0.0554		1.01	1.00	0.9	20.0
PCB-1016 Peak 4	Lin1		0.0722		1.02	1.00	1.5	20.0
PCB-1016 Peak 5	Lin1		0.2331		0.993	1.00	-0.7	20.0
PCB-1260 Peak 1	Lin2		0.3242		0.888	1.00	-11.2	20.0
PCB-1260 Peak 2	Lin2		0.3310		1.02	1.00	1.6	20.0
PCB-1260 Peak 3	Lin2		0.2330		0.823	1.00	-17.7	20.0
PCB-1260 Peak 4	Lin2		0.1173		0.871	1.00	-12.9	20.0
PCB-1260 Peak 5	Ave	0.6891	0.5326		0.773	1.00	-22.7*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: ICV 490-237912/10 Calibration Date: 03/31/2015 18:10

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 033115hp37.010dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.41	2.38	2.44
PCB-1016 Peak 2	2.75	2.72	2.78
PCB-1016 Peak 3	2.95	2.92	2.98
PCB-1016 Peak 4	2.98	2.95	3.01
PCB-1016 Peak 5	3.18	3.15	3.21
PCB-1260 Peak 1	5.55	5.52	5.58
PCB-1260 Peak 2	6.01	5.98	6.04
PCB-1260 Peak 3	6.51	6.48	6.54
PCB-1260 Peak 4	6.60	6.58	6.64
PCB-1260 Peak 5	6.84	6.82	6.88

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCVRT 490-241134/2 Calibration Date: 04/14/2015 12:15

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 041415hp37.002dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0258		1.06	1.00	6.4	20.0
PCB-1016 Peak 2	Lin1		0.0525		1.06	1.00	6.2	20.0
PCB-1016 Peak 3	Lin1		0.0123		0.892	1.00	-10.8	20.0
PCB-1016 Peak 4	Lin2		0.0214		0.975	1.00	-2.5	20.0
PCB-1016 Peak 5	Lin2		0.0708		1.10	1.00	9.8	20.0
PCB-1260 Peak 1	Lin2		0.0664		1.00	1.00	0.3	20.0
PCB-1260 Peak 2	Lin2		0.1009		1.01	1.00	1.4	20.0
PCB-1260 Peak 3	Lin2		0.0813		0.932	1.00	-6.8	20.0
PCB-1260 Peak 4	Lin2		0.0643		0.992	1.00	-0.8	20.0
PCB-1260 Peak 5	Lin2		0.1452		1.02	1.00	2.3	20.0
Tetrachloro-m-xylene	Lin2		1.345		0.0934	0.100	-6.6	20.0
DCB Decachlorobiphenyl (Surr)	Lin1		0.9113		0.0828	0.100	-17.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCVRT 490-241134/2 Calibration Date: 04/14/2015 12:15

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 041415hp37.002dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.31	2.28	2.34
PCB-1016 Peak 2	2.60	2.57	2.63
PCB-1016 Peak 3	2.77	2.74	2.80
PCB-1016 Peak 4	2.79	2.76	2.82
PCB-1016 Peak 5	3.03	3.00	3.06
PCB-1260 Peak 1	4.95	4.92	4.98
PCB-1260 Peak 2	5.29	5.26	5.32
PCB-1260 Peak 3	5.64	5.61	5.67
PCB-1260 Peak 4	6.10	6.07	6.13
PCB-1260 Peak 5	6.50	6.47	6.53
Tetrachloro-m-xylene	2.04	2.01	2.07
DCB Decachlorobiphenyl (Surr)	8.36	8.33	8.39

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCVRT 490-241134/2 Calibration Date: 04/14/2015 12:15

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 041415hp37.002dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0753		0.913	1.00	-8.7	20.0
PCB-1016 Peak 2	Lin1		0.1081		0.837	1.00	-16.3	20.0
PCB-1016 Peak 3	Lin1		0.0461		0.837	1.00	-16.3	20.0
PCB-1016 Peak 4	Lin1		0.0643		0.903	1.00	-9.7	20.0
PCB-1016 Peak 5	Lin1		0.2217		0.944	1.00	-5.6	20.0
PCB-1260 Peak 1	Lin2		0.2892		0.791	1.00	-20.9*	20.0
PCB-1260 Peak 2	Lin2		0.2735		0.838	1.00	-16.2	20.0
PCB-1260 Peak 3	Lin2		0.2311		0.817	1.00	-18.4	20.0
PCB-1260 Peak 4	Lin2		0.1112		0.825	1.00	-17.5	20.0
PCB-1260 Peak 5	Ave	0.6891	0.5106		0.741	1.00	-25.9*	20.0
Tetrachloro-m-xylene	Lin1		4.069		0.0867	0.100	-13.3	20.0
DCB Decachlorobiphenyl (Surr)	Lin2		3.388		0.0746	0.100	-25.4*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCVRT 490-241134/2 Calibration Date: 04/14/2015 12:15

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 041415hp37.002dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.40	2.37	2.43
PCB-1016 Peak 2	2.74	2.71	2.77
PCB-1016 Peak 3	2.94	2.91	2.97
PCB-1016 Peak 4	2.97	2.94	3.00
PCB-1016 Peak 5	3.17	3.14	3.20
PCB-1260 Peak 1	5.53	5.50	5.56
PCB-1260 Peak 2	5.99	5.96	6.02
PCB-1260 Peak 3	6.50	6.47	6.53
PCB-1260 Peak 4	6.59	6.56	6.62
PCB-1260 Peak 5	6.83	6.80	6.86
Tetrachloro-m-xylene	2.04	2.01	2.07
DCB Decachlorobiphenyl (Surr)	8.91	8.88	8.94

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 4	Ave	0.4816	0.0000			1.00	-100.0*	20.0
PCB-1221 Peak 5	Ave	0.0089	0.0000			1.00	-100.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 4	0.00	0.00	0.03
PCB-1221 Peak 5	0.00	0.00	0.03

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin2		0.0132		0.808	1.00	-19.2	20.0
PCB-1221 Peak 2	Lin2		0.0322		0.850	1.00	-15.0	20.0
PCB-1221 Peak 3	Lin2		0.0053		0.922	1.00	-7.8	20.0
PCB-1254 Peak 1	Lin2		0.0490		0.935	1.00	-6.5	20.0
PCB-1254 Peak 2	Lin2		0.0842		0.940	1.00	-6.0	20.0
PCB-1254 Peak 3	Lin2		0.0662		0.964	1.00	-3.6	20.0
PCB-1254 Peak 4	Lin2		0.0607		0.942	1.00	-5.8	20.0
PCB-1254 Peak 5	Lin2		0.0864		0.915	1.00	-8.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	2.16	2.13	2.19
PCB-1221 Peak 2	2.31	2.28	2.34
PCB-1221 Peak 3	3.03	3.00	3.06
PCB-1254 Peak 1	4.59	4.56	4.62
PCB-1254 Peak 2	4.73	4.70	4.76
PCB-1254 Peak 3	5.06	5.03	5.09
PCB-1254 Peak 4	5.29	5.26	5.32
PCB-1254 Peak 5	5.64	5.61	5.67

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 4	Ave	0.0355	0.0000			1.00	-100.0*	20.0
PCB-1221 Peak 5	Ave	0.0372	0.0000			1.00	-100.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 4	0.00	0.00	0.03
PCB-1221 Peak 5	0.00	0.00	0.03

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin2		0.0437		0.835	1.00	-16.5	20.0
PCB-1221 Peak 2	Lin2		0.1021		0.837	1.00	-16.3	20.0
PCB-1221 Peak 3	Lin2		0.0171		0.937	1.00	-6.3	20.0
PCB-1254 Peak 1	Lin2		0.2135		0.903	1.00	-9.7	20.0
PCB-1254 Peak 2	Lin2	0.3750	0.3122		0.925	1.00	-7.5	20.0
PCB-1254 Peak 3	Lin2		0.2298		0.919	1.00	-8.1	20.0
PCB-1254 Peak 4	Lin2		0.1347		0.904	1.00	-9.6	20.0
PCB-1254 Peak 5	Ave	0.3132	0.2595		0.895	1.00	-17.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	2.24	2.21	2.27
PCB-1221 Peak 2	2.40	2.37	2.43
PCB-1221 Peak 3	3.17	3.14	3.20
PCB-1254 Peak 1	4.48	4.45	4.51
PCB-1254 Peak 2	5.03	5.00	5.06
PCB-1254 Peak 3	5.31	5.28	5.34
PCB-1254 Peak 4	5.53	5.50	5.56
PCB-1254 Peak 5	6.00	5.97	6.03

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/4 Calibration Date: 04/14/2015 12:46

Instrument ID: HP37 Calib Start Date: 03/31/2015 03:59

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 05:31

Lab File ID: 041415hp37.004dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin2		0.0280		0.813	1.00	-18.7	20.0
PCB-1232 Peak 2	Lin2		0.0216		0.772	1.00	-22.8*	20.0
PCB-1232 Peak 3	Lin2		0.0172		0.734	1.00	-26.6*	20.0
PCB-1232 Peak 4	Lin2		0.0305		0.906	1.00	-9.4	20.0
PCB-1232 Peak 5	Lin2		0.0189		0.783	1.00	-21.7*	20.0
PCB-1262 Peak 1	Lin2		0.0760		0.844	1.00	-15.6	20.0
PCB-1262 Peak 2	Lin2		0.1563		0.866	1.00	-13.4	20.0
PCB-1262 Peak 3	Lin2		0.0692		0.826	1.00	-17.4	20.0
PCB-1262 Peak 4	Lin2		0.0237		0.748	1.00	-25.2*	20.0
PCB-1262 Peak 5	Lin1		0.0166		0.695	1.00	-30.5*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/4 Calibration Date: 04/14/2015 12:46

Instrument ID: HP37 Calib Start Date: 03/31/2015 03:59

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 05:31

Lab File ID: 041415hp37.004dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.31	2.28	2.34
PCB-1232 Peak 2	2.60	2.57	2.63
PCB-1232 Peak 3	3.01	2.98	3.04
PCB-1232 Peak 4	3.03	3.00	3.06
PCB-1232 Peak 5	3.16	3.13	3.19
PCB-1262 Peak 1	6.10	6.07	6.13
PCB-1262 Peak 2	6.50	6.47	6.53
PCB-1262 Peak 3	6.98	6.95	7.01
PCB-1262 Peak 4	7.36	7.33	7.39
PCB-1262 Peak 5	8.10	8.07	8.13

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/4 Calibration Date: 04/14/2015 12:46

Instrument ID: HP37 Calib Start Date: 03/31/2015 03:59

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 05:31

Lab File ID: 041415hp37.004dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	0.1139	0.0885		0.778	1.00	-22.2*	20.0
PCB-1232 Peak 2	Ave	0.1040	0.0803		0.772	1.00	-22.8*	20.0
PCB-1232 Peak 3	Ave	0.0872	0.0595		0.682	1.00	-31.8*	20.0
PCB-1232 Peak 4	Ave	0.1181	0.1033		0.875	1.00	-12.5	20.0
PCB-1232 Peak 5	Ave	0.0487	0.0392		0.804	1.00	-19.6	20.0
PCB-1262 Peak 1	Ave	0.3526	0.2828		0.802	1.00	-19.8	20.0
PCB-1262 Peak 2	Ave	0.7179	0.5379		0.749	1.00	-25.1*	20.0
PCB-1262 Peak 3	Ave	0.5064	0.4039		0.798	1.00	-20.2*	20.0
PCB-1262 Peak 4	Ave	0.0970	0.0770		0.794	1.00	-20.6*	20.0
PCB-1262 Peak 5	Ave	0.0805	0.0612		0.761	1.00	-23.9*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/4 Calibration Date: 04/14/2015 12:46

Instrument ID: HP37 Calib Start Date: 03/31/2015 03:59

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 05:31

Lab File ID: 041415hp37.004dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.40	2.37	2.43
PCB-1232 Peak 2	2.74	2.71	2.77
PCB-1232 Peak 3	3.15	3.12	3.18
PCB-1232 Peak 4	3.17	3.14	3.20
PCB-1232 Peak 5	3.41	3.38	3.44
PCB-1262 Peak 1	6.50	6.47	6.53
PCB-1262 Peak 2	6.83	6.80	6.86
PCB-1262 Peak 3	7.32	7.29	7.35
PCB-1262 Peak 4	7.88	7.85	7.91
PCB-1262 Peak 5	8.56	8.53	8.59

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/5 Calibration Date: 04/14/2015 13:02

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.005dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin2		0.0289		0.868	1.00	-13.2	20.0
PCB-1242 Peak 2	Lin2		0.0227		0.912	1.00	-8.8	20.0
PCB-1242 Peak 3	Lin2		0.0163		0.813	1.00	-18.7	20.0
PCB-1242 Peak 4	Lin2		0.0204		0.965	1.00	-3.5	20.0
PCB-1242 Peak 5	Lin2		0.0272		0.905	1.00	-9.5	20.0
PCB-1268 Peak 1	Lin2		0.1736		0.881	1.00	-11.9	20.0
PCB-1268 Peak 2	Lin2		0.1697		0.895	1.00	-10.5	20.0
PCB-1268 Peak 3	Lin2		0.1348		0.853	1.00	-14.8	20.0
PCB-1268 Peak 4	Lin2		0.0584		0.808	1.00	-19.2	20.0
PCB-1268 Peak 5	Lin2		0.3676		0.754	1.00	-24.6*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/5 Calibration Date: 04/14/2015 13:02

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.005dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.16	3.13	3.19
PCB-1242 Peak 2	3.22	3.19	3.25
PCB-1242 Peak 3	3.34	3.31	3.37
PCB-1242 Peak 4	3.36	3.33	3.39
PCB-1242 Peak 5	3.57	3.54	3.60
PCB-1268 Peak 1	6.92	6.89	6.95
PCB-1268 Peak 2	6.98	6.95	7.01
PCB-1268 Peak 3	7.24	7.21	7.27
PCB-1268 Peak 4	7.71	7.68	7.74
PCB-1268 Peak 5	8.10	8.07	8.13

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/5 Calibration Date: 04/14/2015 13:02

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.005dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.1395	0.1139		0.816	1.00	-18.4	20.0
PCB-1242 Peak 2	Ave	0.0866	0.0711		0.822	1.00	-17.8	20.0
PCB-1242 Peak 3	Ave	0.0820	0.0661		0.807	1.00	-19.3	20.0
PCB-1242 Peak 4	Ave	0.0858	0.0697		0.812	1.00	-18.8	20.0
PCB-1242 Peak 5	Ave	0.1179	0.0959		0.813	1.00	-18.7	20.0
PCB-1268 Peak 1	Ave	0.1856	0.1465		0.789	1.00	-21.1*	20.0
PCB-1268 Peak 2	Ave	0.7508	0.5732		0.764	1.00	-23.7*	20.0
PCB-1268 Peak 3	Ave	0.6162	0.4490		0.729	1.00	-27.1*	20.0
PCB-1268 Peak 4	Ave	0.2779	0.2061		0.742	1.00	-25.8*	20.0
PCB-1268 Peak 5	Ave	0.3800	0.2663		0.701	1.00	-29.9*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/5 Calibration Date: 04/14/2015 13:02

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.005dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.31	3.28	3.34
PCB-1242 Peak 2	3.41	3.38	3.44
PCB-1242 Peak 3	3.51	3.48	3.54
PCB-1242 Peak 4	3.55	3.52	3.58
PCB-1242 Peak 5	3.79	3.76	3.82
PCB-1268 Peak 1	6.50	6.47	6.53
PCB-1268 Peak 2	7.38	7.35	7.41
PCB-1268 Peak 3	7.72	7.69	7.75
PCB-1268 Peak 4	8.11	8.08	8.14
PCB-1268 Peak 5	8.91	8.88	8.94

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/6 Calibration Date: 04/14/2015 13:18

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.006dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin2		0.0448		0.912	1.00	-8.8	20.0
PCB-1248 Peak 2	Lin2		0.0287		0.897	1.00	-10.3	20.0
PCB-1248 Peak 3	Lin2		0.0523		0.913	1.00	-8.7	20.0
PCB-1248 Peak 4	Lin2		0.0505		0.969	1.00	-3.1	20.0
PCB-1248 Peak 5	Lin2		0.0450		0.956	1.00	-4.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/6 Calibration Date: 04/14/2015 13:18

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.006dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.57	3.54	3.60
PCB-1248 Peak 2	3.66	3.63	3.69
PCB-1248 Peak 3	4.02	3.99	4.05
PCB-1248 Peak 4	4.05	4.02	4.08
PCB-1248 Peak 5	4.27	4.24	4.30

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/6 Calibration Date: 04/14/2015 13:18

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.006dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.1880	0.1581		0.841	1.00	-15.9	20.0
PCB-1248 Peak 2	Ave	0.1709	0.1629		0.953	1.00	-4.7	20.0
PCB-1248 Peak 3	Ave	0.2222	0.1888		0.850	1.00	-15.0	20.0
PCB-1248 Peak 4	Ave	0.2444	0.2109		0.863	1.00	-13.7	20.0
PCB-1248 Peak 5	Ave	0.2335	0.1973		0.845	1.00	-15.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/6 Calibration Date: 04/14/2015 13:18

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.006dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.79	3.76	3.82
PCB-1248 Peak 2	3.93	3.90	3.96
PCB-1248 Peak 3	4.21	4.18	4.24
PCB-1248 Peak 4	4.27	4.24	4.30
PCB-1248 Peak 5	4.53	4.50	4.56

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/78 Calibration Date: 04/15/2015 11:51

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.078dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin2		0.0296		0.890	1.00	-11.0	20.0
PCB-1242 Peak 2	Lin2		0.0240		0.967	1.00	-3.4	20.0
PCB-1242 Peak 3	Lin2		0.0174		0.869	1.00	-13.1	20.0
PCB-1242 Peak 4	Lin2		0.0207		0.980	1.00	-2.0	20.0
PCB-1242 Peak 5	Lin2		0.0274		0.913	1.00	-8.7	20.0
PCB-1268 Peak 1	Lin2		0.1824		0.926	1.00	-7.4	20.0
PCB-1268 Peak 2	Lin2		0.1820		0.961	1.00	-3.9	20.0
PCB-1268 Peak 3	Lin2		0.1418		0.898	1.00	-10.2	20.0
PCB-1268 Peak 4	Lin2		0.0613		0.849	1.00	-15.1	20.0
PCB-1268 Peak 5	Lin2		0.3822		0.784	1.00	-21.6*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/78 Calibration Date: 04/15/2015 11:51

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.078dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.16	3.13	3.19
PCB-1242 Peak 2	3.22	3.19	3.25
PCB-1242 Peak 3	3.34	3.31	3.37
PCB-1242 Peak 4	3.37	3.34	3.40
PCB-1242 Peak 5	3.58	3.55	3.61
PCB-1268 Peak 1	6.93	6.90	6.96
PCB-1268 Peak 2	6.98	6.95	7.01
PCB-1268 Peak 3	7.24	7.21	7.27
PCB-1268 Peak 4	7.72	7.69	7.75
PCB-1268 Peak 5	8.11	8.08	8.14

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/78 Calibration Date: 04/15/2015 11:51

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.078dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.1395	0.1103		0.791	1.00	-21.0*	20.0
PCB-1242 Peak 2	Ave	0.0866	0.0679		0.785	1.00	-21.5*	20.0
PCB-1242 Peak 3	Ave	0.0820	0.0623		0.759	1.00	-24.1*	20.0
PCB-1242 Peak 4	Ave	0.0858	0.0666		0.776	1.00	-22.4*	20.0
PCB-1242 Peak 5	Ave	0.1179	0.0919		0.779	1.00	-22.1*	20.0
PCB-1268 Peak 1	Ave	0.1856	0.1458		0.785	1.00	-21.5*	20.0
PCB-1268 Peak 2	Ave	0.7508	0.5895		0.785	1.00	-21.5*	20.0
PCB-1268 Peak 3	Ave	0.6162	0.4145		0.673	1.00	-32.7*	20.0
PCB-1268 Peak 4	Ave	0.2779	0.1999		0.720	1.00	-28.1*	20.0
PCB-1268 Peak 5	Ave	0.3800	0.2522		0.664	1.00	-33.6*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/78 Calibration Date: 04/15/2015 11:51

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.078dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.31	3.28	3.34
PCB-1242 Peak 2	3.41	3.38	3.44
PCB-1242 Peak 3	3.50	3.47	3.53
PCB-1242 Peak 4	3.55	3.52	3.58
PCB-1242 Peak 5	3.79	3.76	3.82
PCB-1268 Peak 1	6.50	6.47	6.53
PCB-1268 Peak 2	7.37	7.34	7.40
PCB-1268 Peak 3	7.72	7.69	7.75
PCB-1268 Peak 4	8.11	8.08	8.14
PCB-1268 Peak 5	8.91	8.88	8.94

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/79 Calibration Date: 04/15/2015 12:07

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.079dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin2		0.0459		0.934	1.00	-6.6	20.0
PCB-1248 Peak 2	Lin2		0.0302		0.945	1.00	-5.5	20.0
PCB-1248 Peak 3	Lin2		0.0539		0.940	1.00	-6.0	20.0
PCB-1248 Peak 4	Lin2		0.0538		1.03	1.00	3.3	20.0
PCB-1248 Peak 5	Lin2		0.0466		0.990	1.00	-1.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/79 Calibration Date: 04/15/2015 12:07

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.079dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.57	3.54	3.60
PCB-1248 Peak 2	3.66	3.63	3.69
PCB-1248 Peak 3	4.02	3.99	4.05
PCB-1248 Peak 4	4.05	4.02	4.08
PCB-1248 Peak 5	4.27	4.24	4.30

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/79 Calibration Date: 04/15/2015 12:07

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.079dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.1880	0.1600		0.851	1.00	-14.9	20.0
PCB-1248 Peak 2	Ave	0.1709	0.1652		0.967	1.00	-3.3	20.0
PCB-1248 Peak 3	Ave	0.2222	0.1891		0.851	1.00	-14.9	20.0
PCB-1248 Peak 4	Ave	0.2444	0.2126		0.870	1.00	-13.0	20.0
PCB-1248 Peak 5	Ave	0.2335	0.1985		0.850	1.00	-15.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/79 Calibration Date: 04/15/2015 12:07

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.079dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.79	3.76	3.82
PCB-1248 Peak 2	3.93	3.90	3.96
PCB-1248 Peak 3	4.21	4.18	4.24
PCB-1248 Peak 4	4.27	4.24	4.30
PCB-1248 Peak 5	4.53	4.50	4.56

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.080dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 4	Ave	0.4816	0.0000			1.00	-100.0*	20.0
PCB-1221 Peak 5	Ave	0.0089	0.0000			1.00	-100.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.080dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 4	0.00	0.00	0.03
PCB-1221 Peak 5	0.00	0.00	0.03

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.080dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin2		0.0147		0.902	1.00	-9.8	20.0
PCB-1221 Peak 2	Lin2		0.0361		0.956	1.00	-4.5	20.0
PCB-1221 Peak 3	Lin2		0.0059		1.02	1.00	2.2	20.0
PCB-1254 Peak 1	Lin2		0.0552		1.06	1.00	5.6	20.0
PCB-1254 Peak 2	Lin2		0.0943		1.05	1.00	5.4	20.0
PCB-1254 Peak 3	Lin2		0.0743		1.08	1.00	8.3	20.0
PCB-1254 Peak 4	Lin2		0.0677		1.05	1.00	5.1	20.0
PCB-1254 Peak 5	Lin2		0.0960		1.02	1.00	1.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.080dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	2.16	2.13	2.19
PCB-1221 Peak 2	2.31	2.28	2.34
PCB-1221 Peak 3	3.03	3.00	3.06
PCB-1254 Peak 1	4.59	4.56	4.62
PCB-1254 Peak 2	4.73	4.70	4.76
PCB-1254 Peak 3	5.06	5.03	5.09
PCB-1254 Peak 4	5.29	5.26	5.32
PCB-1254 Peak 5	5.64	5.61	5.67

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.080dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 4	Ave	0.0355	0.0000			1.00	-100.0*	20.0
PCB-1221 Peak 5	Ave	0.0372	0.0000			1.00	-100.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.080dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 4	0.00	0.00	0.03
PCB-1221 Peak 5	0.00	0.00	0.03

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.080dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin2		0.0460		0.878	1.00	-12.2	20.0
PCB-1221 Peak 2	Lin2		0.1088		0.893	1.00	-10.7	20.0
PCB-1221 Peak 3	Lin2		0.0182		0.995	1.00	-0.5	20.0
PCB-1254 Peak 1	Lin2		0.2279		0.964	1.00	-3.6	20.0
PCB-1254 Peak 2	Lin2	0.3750	0.3320		0.984	1.00	-1.6	20.0
PCB-1254 Peak 3	Lin2		0.2439		0.976	1.00	-2.4	20.0
PCB-1254 Peak 4	Lin2		0.1443		0.970	1.00	-3.1	20.0
PCB-1254 Peak 5	Ave	0.3132	0.2809		0.970	1.00	-10.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.080dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	2.24	2.21	2.27
PCB-1221 Peak 2	2.40	2.37	2.43
PCB-1221 Peak 3	3.17	3.14	3.20
PCB-1254 Peak 1	4.48	4.45	4.51
PCB-1254 Peak 2	5.03	5.00	5.06
PCB-1254 Peak 3	5.31	5.28	5.34
PCB-1254 Peak 4	5.54	5.51	5.57
PCB-1254 Peak 5	6.00	5.97	6.03

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75765-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-239249/1-A

Matrix: Water | Lab File ID: 041415hp37.042dat.d

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1000(mL) | Date Analyzed: 04/14/2015 22:39

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.500	U	0.500	0.0640
12672-29-6	PCB-1248	0.500	U	0.500	0.0690
11097-69-1	PCB-1254	0.500	U	0.500	0.00700

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	80		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 490-239249/1-A

Matrix: Water Lab File ID: 041415hp37.042dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2015 22:39

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-50 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	66		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 490-241134/7

Matrix: Water Lab File ID: 041415hp37.007dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/14/2015 13:33

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.0300	U	0.0300	0.00640
12672-29-6	PCB-1248	0.0300	U	0.0300	0.00690
11097-69-1	PCB-1254	0.0300	U	0.0300	0.00700

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)			
877-09-8	Tetrachloro-m-xylene			

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 490-241134/81

Matrix: Water Lab File ID: 041415hp37.081dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/15/2015 12:38

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.0300	U	0.0300	0.00640
12672-29-6	PCB-1248	0.0300	U	0.0300	0.00690
11097-69-1	PCB-1254	0.0300	U	0.0300	0.00700

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)			
877-09-8	Tetrachloro-m-xylene			

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 490-239249/2-A

Matrix: Water Lab File ID: 041415hp37.043dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2015 22:55

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	78		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 490-239249/2-A

Matrix: Water Lab File ID: 041415hp37.043dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2015 22:55

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-50 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	64		10-150

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Start Date: 03/31/2015 01:54

Analysis Batch Number: 237639 End Date: 03/31/2015 10:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 490-237639/25		03/31/2015 01:54	1	033015hp37.025dat.d	RTX-5 0.32(mm)
IC 490-237639/25		03/31/2015 01:54	1	033015hp37.025dat.d	RTX-50 0.32(mm)
IC 490-237639/26		03/31/2015 02:10	1	033015hp37.026dat.d	RTX-5 0.32(mm)
IC 490-237639/26		03/31/2015 02:10	1	033015hp37.026dat.d	RTX-50 0.32(mm)
IC 490-237639/27		03/31/2015 02:25	1	033015hp37.027dat.d	RTX-5 0.32(mm)
IC 490-237639/27		03/31/2015 02:25	1	033015hp37.027dat.d	RTX-50 0.32(mm)
IC 490-237639/28		03/31/2015 02:41	1	033015hp37.028dat.d	RTX-5 0.32(mm)
IC 490-237639/28		03/31/2015 02:41	1	033015hp37.028dat.d	RTX-50 0.32(mm)
ICIS 490-237639/29		03/31/2015 02:56	1	033015hp37.029dat.d	RTX-5 0.32(mm)
ICIS 490-237639/29		03/31/2015 02:56	1	033015hp37.029dat.d	RTX-50 0.32(mm)
IC 490-237639/30		03/31/2015 03:12	1	033015hp37.030dat.d	RTX-5 0.32(mm)
IC 490-237639/30		03/31/2015 03:12	1	033015hp37.030dat.d	RTX-50 0.32(mm)
IC 490-237639/31		03/31/2015 03:27	1	033015hp37.031dat.d	RTX-5 0.32(mm)
IC 490-237639/31		03/31/2015 03:27	1	033015hp37.031dat.d	RTX-50 0.32(mm)
ICV 490-237639/32		03/31/2015 03:43	1		RTX-5 0.32(mm)
ICV 490-237639/32		03/31/2015 03:43	1		RTX-50 0.32(mm)
IC 490-237639/33		03/31/2015 03:59	1	033015hp37.033dat.d	RTX-5 0.32(mm)
IC 490-237639/33		03/31/2015 03:59	1	033015hp37.033dat.d	RTX-50 0.32(mm)
IC 490-237639/34		03/31/2015 04:14	1	033015hp37.034dat.d	RTX-5 0.32(mm)
IC 490-237639/34		03/31/2015 04:14	1	033015hp37.034dat.d	RTX-50 0.32(mm)
IC 490-237639/35		03/31/2015 04:30	1	033015hp37.035dat.d	RTX-5 0.32(mm)
IC 490-237639/35		03/31/2015 04:30	1	033015hp37.035dat.d	RTX-50 0.32(mm)
IC 490-237639/36		03/31/2015 04:45	1	033015hp37.036dat.d	RTX-5 0.32(mm)
IC 490-237639/36		03/31/2015 04:45	1	033015hp37.036dat.d	RTX-50 0.32(mm)
ICIS 490-237639/37		03/31/2015 05:00	1	033015hp37.037dat.d	RTX-5 0.32(mm)
ICIS 490-237639/37		03/31/2015 05:00	1	033015hp37.037dat.d	RTX-50 0.32(mm)
IC 490-237639/38		03/31/2015 05:16	1	033015hp37.038dat.d	RTX-5 0.32(mm)
IC 490-237639/38		03/31/2015 05:16	1	033015hp37.038dat.d	RTX-50 0.32(mm)
IC 490-237639/39		03/31/2015 05:31	1	033015hp37.039dat.d	RTX-5 0.32(mm)
IC 490-237639/39		03/31/2015 05:31	1	033015hp37.039dat.d	RTX-50 0.32(mm)
ICV 490-237639/40		03/31/2015 05:47	1		RTX-5 0.32(mm)
ICV 490-237639/40		03/31/2015 05:47	1		RTX-50 0.32(mm)
IC 490-237639/41		03/31/2015 06:02	1	033015hp37.041dat.d	RTX-5 0.32(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Start Date: 03/31/2015 01:54

Analysis Batch Number: 237639 End Date: 03/31/2015 10:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 490-237639/41		03/31/2015 06:02	1	033015hp37.041dat.d	RTX-50 0.32(mm)
IC 490-237639/42		03/31/2015 06:18	1	033015hp37.042dat.d	RTX-5 0.32(mm)
IC 490-237639/42		03/31/2015 06:18	1	033015hp37.042dat.d	RTX-50 0.32(mm)
IC 490-237639/43		03/31/2015 06:33	1	033015hp37.043dat.d	RTX-5 0.32(mm)
IC 490-237639/43		03/31/2015 06:33	1	033015hp37.043dat.d	RTX-50 0.32(mm)
IC 490-237639/44		03/31/2015 06:49	1	033015hp37.044dat.d	RTX-5 0.32(mm)
IC 490-237639/44		03/31/2015 06:49	1	033015hp37.044dat.d	RTX-50 0.32(mm)
ICIS 490-237639/45		03/31/2015 07:04	1	033015hp37.045dat.d	RTX-5 0.32(mm)
ICIS 490-237639/45		03/31/2015 07:04	1	033015hp37.045dat.d	RTX-50 0.32(mm)
IC 490-237639/46		03/31/2015 07:20	1	033015hp37.046dat.d	RTX-5 0.32(mm)
IC 490-237639/46		03/31/2015 07:20	1	033015hp37.046dat.d	RTX-50 0.32(mm)
IC 490-237639/47		03/31/2015 07:35	1	033015hp37.047dat.d	RTX-5 0.32(mm)
IC 490-237639/47		03/31/2015 07:35	1	033015hp37.047dat.d	RTX-50 0.32(mm)
ICV 490-237639/48		03/31/2015 07:51	1		RTX-5 0.32(mm)
ICV 490-237639/48		03/31/2015 07:51	1		RTX-50 0.32(mm)
IC 490-237639/49		03/31/2015 08:07	1	033015hp37.049dat.d	RTX-5 0.32(mm)
IC 490-237639/49		03/31/2015 08:07	1	033015hp37.049dat.d	RTX-50 0.32(mm)
IC 490-237639/50		03/31/2015 08:22	1	033015hp37.050dat.d	RTX-5 0.32(mm)
IC 490-237639/50		03/31/2015 08:22	1	033015hp37.050dat.d	RTX-50 0.32(mm)
IC 490-237639/51		03/31/2015 08:37	1	033015hp37.051dat.d	RTX-5 0.32(mm)
IC 490-237639/51		03/31/2015 08:37	1	033015hp37.051dat.d	RTX-50 0.32(mm)
IC 490-237639/52		03/31/2015 08:53	1	033015hp37.052dat.d	RTX-5 0.32(mm)
IC 490-237639/52		03/31/2015 08:53	1	033015hp37.052dat.d	RTX-50 0.32(mm)
ICIS 490-237639/53		03/31/2015 09:09	1	033015hp37.053dat.d	RTX-5 0.32(mm)
ICIS 490-237639/53		03/31/2015 09:09	1	033015hp37.053dat.d	RTX-50 0.32(mm)
IC 490-237639/54		03/31/2015 09:24	1	033015hp37.054dat.d	RTX-5 0.32(mm)
IC 490-237639/54		03/31/2015 09:24	1	033015hp37.054dat.d	RTX-50 0.32(mm)
IC 490-237639/55		03/31/2015 09:40	1	033015hp37.055dat.d	RTX-5 0.32(mm)
IC 490-237639/55		03/31/2015 09:40	1	033015hp37.055dat.d	RTX-50 0.32(mm)
ICV 490-237639/56		03/31/2015 09:55	1		RTX-5 0.32(mm)
ICV 490-237639/56		03/31/2015 09:55	1		RTX-50 0.32(mm)
ICB 490-237639/57		03/31/2015 10:11	1		RTX-5 0.32(mm)
ICB 490-237639/57		03/31/2015 10:11	1		RTX-50 0.32(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Start Date: 03/31/2015 16:05

Analysis Batch Number: 237912 End Date: 03/31/2015 23:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/31/2015 16:05	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 16:05	1		RTX-50 0.32(mm)
IC 490-237912/3		03/31/2015 16:21	1	033115hp37.003dat.d	RTX-5 0.32(mm)
IC 490-237912/3		03/31/2015 16:21	1	033115hp37.003dat.d	RTX-50 0.32(mm)
IC 490-237912/4		03/31/2015 16:36	1	033115hp37.004dat.d	RTX-5 0.32(mm)
IC 490-237912/4		03/31/2015 16:36	1	033115hp37.004dat.d	RTX-50 0.32(mm)
IC 490-237912/5		03/31/2015 16:52	1	033115hp37.005dat.d	RTX-5 0.32(mm)
IC 490-237912/5		03/31/2015 16:52	1	033115hp37.005dat.d	RTX-50 0.32(mm)
IC 490-237912/6		03/31/2015 17:08	1	033115hp37.006dat.d	RTX-5 0.32(mm)
IC 490-237912/6		03/31/2015 17:08	1	033115hp37.006dat.d	RTX-50 0.32(mm)
ICRT 490-237912/7		03/31/2015 17:23	1	033115hp37.007dat.d	RTX-5 0.32(mm)
ICRT 490-237912/7		03/31/2015 17:23	1	033115hp37.007dat.d	RTX-50 0.32(mm)
IC 490-237912/8		03/31/2015 17:39	1	033115hp37.008dat.d	RTX-5 0.32(mm)
IC 490-237912/8		03/31/2015 17:39	1	033115hp37.008dat.d	RTX-50 0.32(mm)
IC 490-237912/9		03/31/2015 17:54	1	033115hp37.009dat.d	RTX-5 0.32(mm)
IC 490-237912/9		03/31/2015 17:54	1	033115hp37.009dat.d	RTX-50 0.32(mm)
ICV 490-237912/10		03/31/2015 18:10	1	033115hp37.010dat.d	RTX-5 0.32(mm)
ICV 490-237912/10		03/31/2015 18:10	1	033115hp37.010dat.d	RTX-50 0.32(mm)
ICB 490-237912/11		03/31/2015 18:26	1		RTX-5 0.32(mm)
ICB 490-237912/11		03/31/2015 18:26	1		RTX-50 0.32(mm)
CCV 490-237912/12		03/31/2015 18:41	1		RTX-5 0.32(mm)
CCV 490-237912/12		03/31/2015 18:41	1		RTX-50 0.32(mm)
CCV 490-237912/13		03/31/2015 18:57	1		RTX-5 0.32(mm)
CCV 490-237912/13		03/31/2015 18:57	1		RTX-50 0.32(mm)
CCV 490-237912/14		03/31/2015 19:13	1		RTX-5 0.32(mm)
CCV 490-237912/14		03/31/2015 19:13	1		RTX-50 0.32(mm)
CCV 490-237912/15		03/31/2015 19:29	1		RTX-5 0.32(mm)
CCV 490-237912/15		03/31/2015 19:29	1		RTX-50 0.32(mm)
CCB 490-237912/16		03/31/2015 19:44	1		RTX-5 0.32(mm)
CCB 490-237912/16		03/31/2015 19:44	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 20:00	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 20:00	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 20:16	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 20:16	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 20:31	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 20:31	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 20:47	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 20:47	1		RTX-50 0.32(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Start Date: 03/31/2015 16:05

Analysis Batch Number: 237912 End Date: 03/31/2015 23:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/31/2015 21:03	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 21:03	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 21:18	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 21:18	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 21:34	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 21:34	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 21:50	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 21:50	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 22:37	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 22:37	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 22:52	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 22:52	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 23:09	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 23:09	1		RTX-50 0.32(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Start Date: 04/14/2015 12:15

Analysis Batch Number: 241134 End Date: 04/15/2015 12:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 490-241134/2		04/14/2015 12:15	1	041415hp37.002dat.d	RTX-5 0.32(mm)
CCVRT 490-241134/2		04/14/2015 12:15	1	041415hp37.002dat.d	RTX-50 0.32(mm)
CCV 490-241134/3		04/14/2015 12:31	1	041415hp37.003dat.d	RTX-5 0.32(mm)
CCV 490-241134/3		04/14/2015 12:31	1	041415hp37.003dat.d	RTX-50 0.32(mm)
CCV 490-241134/4		04/14/2015 12:46	1	041415hp37.004dat.d	RTX-5 0.32(mm)
CCV 490-241134/4		04/14/2015 12:46	1	041415hp37.004dat.d	RTX-50 0.32(mm)
CCV 490-241134/5		04/14/2015 13:02	1	041415hp37.005dat.d	RTX-5 0.32(mm)
CCV 490-241134/5		04/14/2015 13:02	1	041415hp37.005dat.d	RTX-50 0.32(mm)
CCV 490-241134/6		04/14/2015 13:18	1	041415hp37.006dat.d	RTX-5 0.32(mm)
CCV 490-241134/6		04/14/2015 13:18	1	041415hp37.006dat.d	RTX-50 0.32(mm)
CCB 490-241134/7		04/14/2015 13:33	1	041415hp37.007dat.d	RTX-5 0.32(mm)
CCB 490-241134/7		04/14/2015 13:33	1	041415hp37.007dat.d	RTX-50 0.32(mm)
ZZZZZ		04/14/2015 13:49	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 13:49	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 14:04	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 14:04	1		RTX-50 0.32(mm)
		04/14/2015 14:20	1		RTX-5 0.32(mm)
		04/14/2015 14:20	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 14:35	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 14:35	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 14:51	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 14:51	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 15:22	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 15:22	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 15:38	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 15:38	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 15:53	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 15:53	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 16:09	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 16:09	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 16:25	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 16:25	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 16:40	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 16:40	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 16:56	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 16:56	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 17:12	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 17:12	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 17:27	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 17:27	1		RTX-50 0.32(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Start Date: 04/14/2015 12:15

Analysis Batch Number: 241134 End Date: 04/15/2015 12:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/14/2015 17:43	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 17:43	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 17:58	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 17:58	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 18:14	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 18:14	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 18:29	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 18:29	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 19:01	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 19:01	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 19:17	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 19:17	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 19:32	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 19:32	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 19:48	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 19:48	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 20:03	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 20:03	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 20:19	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 20:19	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 21:06	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 21:06	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 21:21	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 21:21	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 22:08	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 22:08	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 22:24	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 22:24	1		RTX-50 0.32(mm)
MB 490-239249/1-A		04/14/2015 22:39	1	041415hp37.042dat.d	RTX-5 0.32(mm)
MB 490-239249/1-A		04/14/2015 22:39	1	041415hp37.042dat.d	RTX-50 0.32(mm)
LCS 490-239249/2-A		04/14/2015 22:55	1	041415hp37.043dat.d	RTX-5 0.32(mm)
LCS 490-239249/2-A		04/14/2015 22:55	1	041415hp37.043dat.d	RTX-50 0.32(mm)
490-75765-2	SCMW-5-GW-HS-040115	04/14/2015 23:10	1	041415hp37.044dat.d	RTX-5 0.32(mm)
490-75765-2	SCMW-5-GW-HS-040115	04/14/2015 23:10	1	041415hp37.044dat.d	RTX-50 0.32(mm)
490-75765-6	SDMW-7-GW-HS-040115	04/14/2015 23:26	1	041415hp37.045dat.d	RTX-5 0.32(mm)
490-75765-6	SDMW-7-GW-HS-040115	04/14/2015 23:26	1	041415hp37.045dat.d	RTX-50 0.32(mm)
490-75765-7	SDMW-8-GW-HS-040115	04/14/2015 23:42	1	041415hp37.046dat.d	RTX-5 0.32(mm)
490-75765-7	SDMW-8-GW-HS-040115	04/14/2015 23:42	1	041415hp37.046dat.d	RTX-50 0.32(mm)
490-75765-10	SHMW-2-GW-HS-040115	04/14/2015 23:57	1	041415hp37.047dat.d	RTX-5 0.32(mm)
490-75765-10	SHMW-2-GW-HS-040115	04/14/2015 23:57	1	041415hp37.047dat.d	RTX-50 0.32(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Start Date: 04/14/2015 12:15

Analysis Batch Number: 241134 End Date: 04/15/2015 12:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/15/2015 00:13	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 00:13	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 00:44	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 00:44	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 01:31	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 01:31	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 01:47	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 01:47	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 02:02	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 02:02	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 02:18	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 02:18	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 02:33	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 02:33	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 02:49	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 02:49	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 03:04	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 03:04	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 03:20	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 03:20	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 03:36	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 03:36	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 03:51	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 03:51	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 04:07	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 04:07	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 04:22	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 04:22	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 04:38	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 04:38	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 04:54	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 04:54	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 05:10	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 05:10	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 05:25	5		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 05:25	5		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 05:41	5		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 05:41	5		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 09:34	10		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 09:34	10		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 09:50	5		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 09:50	5		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 10:05	10		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 10:05	10		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 10:21	5		RTX-5 0.32(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Instrument ID: HP37 Start Date: 04/14/2015 12:15

Analysis Batch Number: 241134 End Date: 04/15/2015 12:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/15/2015 10:21	5		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 10:37	50		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 10:37	50		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 10:52	10		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 10:52	10		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 11:08	5		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 11:08	5		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 11:23	5		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 11:23	5		RTX-50 0.32(mm)
CCV 490-241134/78		04/15/2015 11:51	1	041415hp37.078dat.d	RTX-5 0.32(mm)
CCV 490-241134/78		04/15/2015 11:51	1	041415hp37.078dat.d	RTX-50 0.32(mm)
CCV 490-241134/79		04/15/2015 12:07	1	041415hp37.079dat.d	RTX-5 0.32(mm)
CCV 490-241134/79		04/15/2015 12:07	1	041415hp37.079dat.d	RTX-50 0.32(mm)
CCV 490-241134/80		04/15/2015 12:22	1	041415hp37.080dat.d	RTX-5 0.32(mm)
CCV 490-241134/80		04/15/2015 12:22	1	041415hp37.080dat.d	RTX-50 0.32(mm)
CCB 490-241134/81		04/15/2015 12:38	1	041415hp37.081dat.d	RTX-5 0.32(mm)
CCB 490-241134/81		04/15/2015 12:38	1	041415hp37.081dat.d	RTX-50 0.32(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Nashville Job No.: 490-75765-1

SDG No.:

Batch Number: 239249 Batch Start Date: 04/06/15 13:34 Batch Analyst: Trussell, Eric

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	OP_H2SO4 00013	OP_Hexane 00057	OP_MeCl2 00044
MB 490-239249/1		3510C, 8082A		7	1000 mL	5 mL	4 mL	4 mL	180 mL
LCS 490-239249/2		3510C, 8082A		7	1000 mL	5 mL	4 mL	4 mL	180 mL
490-75765-D-2	SCMW-5-GW-HS-040115	3510C, 8082A	T	7	1010 mL	5 mL	4 mL	4 mL	180 mL
490-75765-E-6	SDMW-7-GW-HS-040115	3510C, 8082A	T	7	1030 mL	5 mL	4 mL	4 mL	180 mL
490-75765-D-7	SDMW-8-GW-HS-040115	3510C, 8082A	T	7	1070 mL	5 mL	4 mL	4 mL	180 mL
490-75765-D-10	SHMW-2-GW-HS-040115	3510C, 8082A	T	7	1070 mL	5 mL	4 mL	4 mL	180 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_NaSO4 00035	OP_PCB_SPK 00027	OP_PPCB_SUR 00032	PCB_Cu_GRAN 00004		
MB 490-239249/1		3510C, 8082A		25 g		1 mL	0.2 mL		
LCS 490-239249/2		3510C, 8082A		25 g	1 mL	1 mL	0.2 mL		
490-75765-D-2	SCMW-5-GW-HS-040115	3510C, 8082A	T	25 g		1 mL	0.2 mL		
490-75765-E-6	SDMW-7-GW-HS-040115	3510C, 8082A	T	25 g		1 mL	0.2 mL		
490-75765-D-7	SDMW-8-GW-HS-040115	3510C, 8082A	T	25 g		1 mL	0.2 mL		
490-75765-D-10	SHMW-2-GW-HS-040115	3510C, 8082A	T	25 g		1 mL	0.2 mL		

Batch Notes	
Person's name who did the concentration	mah,bd
Final Concentrator Volume	5 mL
Person's name who did the prep	et
Person's name who witnessed reagent drop	mm

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Brown, Shali

From: Shannon.Olson@CH2M.com
Sent: Monday, April 06, 2015 3:32 PM
To: Brown, Shali
Subject: RE: Sangamo Sample Receipt files for 490-75765-1

Shali,
Could you change the following sample IDs?

SFMW-9-GW-HS-040115 to SGMW-9-GW-HS-040115
SW-2-GW-040115 to SW-2-SW-040115
SW-2-GW-040115-FD to SW-2-SW-040115
SW-3-GW-040115 to SW-3-SW-040115

Thanks!

Shannon Olson
Environmental Chemist
2020 SW 4th Avenue
Portland, OR 97201
Tel (503) 736-4111
Mobile (262) 388-3899
Fax (503) 736-2063
www.ch2mhill.com

Part-Time Hours:
Monday, Tuesday, Thursday, Friday – 8:30 to 1:30 Central Time
Wednesday – OFF

From: Brown, Shali [mailto:Shali.Brown@testamericainc.com]
Sent: Monday, April 06, 2015 3:13 PM
To: Olson, Shannon/PDX
Subject: RE: Sangamo Sample Receipt files for 490-75765-1

Shannon, I added you to this project to get the final reports/EDD's as well. Attached is the confirmation send by Jennifer on Friday with NCM notes.

Shali

Announcing TotalAccess 4.0 – Online access to your data. New homepage with easier access to your data, multiple search criteria including sampling date and much more! Contact your Account Executive or Project Manager today to arrange for a live demonstration
Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

SHALI BROWN
Project Manager
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Drive
Nashville, TN 37204
Tel 615.301.5031(direct) Fax 615.276.3404
Main 1-615-726-0177 x212
www.testamericainc.com

From: Shannon.Olson@CH2M.com [mailto:Shannon.Olson@CH2M.com]
Sent: Monday, April 06, 2015 8:15 AM
To: Brown, Shali
Subject: Sangamo Sample Receipt

Shali,
Could you please send me the sample receipt for the attached?

Thanks!

Shannon Olson
Environmental Chemist
2020 SW 4th Avenue
Portland, OR 97201
Tel (503) 736-4111
Mobile (262) 388-3899
Fax (503) 736-2063
www.ch2mhill.com

Part-Time Hours:
Monday, Tuesday, Thursday, Friday – 8:30 to 1:30 Central Time
Wednesday – OFF

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Charlotte

490-75765 Chain of Custody

Cooler Received/Opened On 4/2/2015 @ 8:30

1. Tracking # 2375 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 17610176

2. Temperature of rep. sample or temp blank when opened: 2-1 *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) ADT

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? 1 VOA SDMW-4 FD 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) CA

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) CA

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) CA

I certify that I attached a label with the unique LIMS number to each container (intial) CA

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

1 VOA for SDMW-20

~~SMW-1~~ JW 4/3/15

SWMW-1 received empty.

For #8 the label records the ID as SDMW-9

Sample flows in Mulitvues

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12
04/23/2015

TestAmerica
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Nashville, TN

COOLER RECEIPT FORM

Atlanta

Loc: 490
75765

Cooler Received/Opened On 4/2/2015 @ 8:30

1. Tracking # 7871 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: 1.2 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) ECA

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) CM

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) CM

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? CM 4-2-15 YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) CM

I certify that I attached a label with the unique LIMS number to each container (intial) CM

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#

Liters only

Only 1 liter received for SCMW-5

1 liter for SDMW-8 was only 1/3 full

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

Chain of Custody Record

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

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Loc: 490
75765

TAL-4124-280 (0508)

Client	Project Manager	Date	Chain of Custody Number
CH2MHILL / Lillian Furlow	Kathy Arnett	4-1-15	189991

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page
400 Embassy Row 600 Peachtree Dunwoody Rd, Ste 600 (see pg 2)	678-530-4119		Page 1 of 2

City	State	Zip Code	Site Contact	Lab Contact
Atlanta	GA	30328	Lillian Furlow	Shali Brown

Project Name and Location (State)	Carrier/Waybill Number
Sangamo Weston Annual 2015	FED EX 805042082375

Contract/Purchase Order/Quote No.
472789-10001 / 4900590 8

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: 8260B	8082A	Special Instructions/ Conditions of Receipt
1 SWMW-1-GW-HS-040115	4-1-15	1000		X						2			✓		
2 SCMW-5-GW-HS-040115		1420		X			2			3			✓	✓	
3 SDMW-2-GW-HS-040115		1500		X						9			✓		MS/MSD
4 SDMW-4-GW-HS-040115		1445		X						3			✓		
5 SDMW-4-GW-HS-040115-FD		1450		X						3			✓		
6 SDMW-7-GW-HS-040115		1535		X			2			9			✓	✓	MS/MSD
7 SDMW-8-GW-HS-040115		1520		X			2			3			✓	✓	
8 SFMW-6-GW-HS-040115		1140		X						3			✓		
9 SGMW-7-GW-HS-040115		1125		X						3			✓		
10 SHMW-2-GW-HS-040115		1105		X			2			3			✓	✓	
11 SHMW-3-GW-HS-040115		1055		X						3			✓		
12 SPMW-15-GW-HS-040115		1705		X						3			✓		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other ~~STANDARD~~

QC Requirements (Specify)
Level IV

1. Relinquished By	Date	Time	1. Received By	Date	Time
Joe Hambrick	4-1-15	1900	TAW	4-2-15	0830
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

1.2, 2.1

04/23/2015

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Loc: 490
75765

TAL-4124-280 (0508)

Client	Project Manager	Date	Chain of Custody Number
CH2MHILL	Kathy Arnett	4-1-15	189992
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
2020 SW 4th Ave Ste 300	603-736-4111		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Portland / OR / 97201	Shannon Olson	Shali Brown	
Project Name and Location (State)	**Carrier/Waybill Number**		
Sangamo Weston Annual 2015	FedEx 805042082375		
Contract/Purchase Order/Quote No.			
472789-10001 / 49005908			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: 8260B	8082A	Special Instructions/ Conditions of Receipt
SPMW-17-GW-HS-040115	4-1-15	1655		X						3			✓		
SPMW-17-GW-HS-040115-FD		1700		X						3			✓		
SPMW-19-GW-HS-040115		1640		X						3			✓		
SPMW-20-GW-HS-040115		1040		X						2			✓		
SW-2-GW-040115		1425		X						3			✓		
SW-2-GW-040115-FD		1425		X						3			✓		
SW-3-GW-040115		1452		X						9			✓		MS/MSD
TB-01-040115		0900		X						2			✓		

Page 301 of 302

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other Standard

QC Requirements (Specify)
Level IV

	Date	Time		Date	Time
1. Relinquished By: Joe Hawbrick	4-1-15	1900	1. Received By	4-2-15	0830
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

04/23/2015

Login Sample Receipt Checklist

Client: CH2M Hill, Inc.

Job Number: 490-75765-1

Login Number: 75765

List Source: TestAmerica Nashville

List Number: 1

Creator: Huckaba, Jimmy

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.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 490-75790-1

Job Description: Schlumberger Sangamo OU-1 GW 2015

For:
CH2M Hill, Inc.
Embassy Row
6600 Peachtree Dunwoody Road
Building 400 - Suite 600
Atlanta, GA 30328

Attention: Lillian Furlow

Approved for release.
Shali Brown
Project Manager II
4/20/2015 4:26 PM

Shali Brown, Project Manager II
2960 Foster Creighton Drive, Nashville, TN, 37204
(615)301-5031
shali.brown@testamericainc.com
04/20/2015

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CASE NARRATIVE

Client: CH2M Hill, Inc.

Project: Schlumberger Sangamo OU-1 GW 2015

Report Number: 490-75790-1

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

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

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

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 4/3/2015 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.3º C and 3.1º C.

Except:

Low sample volume was provided for the following samples for the PCB analysis: SPMW-18-GW-HS-040215 (490-75790-2) and SWMW-5-GW-HS-040215 (490-75790-8).

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples TB-02-040215 (490-75790-1), SPMW-18-GW-HS-040215 (490-75790-2), SPRW-205-GW-HS-040215 (490-75790-3), SPRW-204-GW-HS-040215 (490-75790-4), SPRW-201-GW-HS-040215 (490-75790-5), SPRW-206-GW-HS-040215 (490-75790-6), SBMW-6-GW-HS-040215 (490-75790-7), SWMW-5-GW-HS-040215 (490-75790-8), SAMW-2-GW-HS-040215 (490-75790-9), SBMW-5-GW-HS-040215 (490-75790-10), SBMW-5-GW-HS-040215-FD (490-75790-11), SBMW-3-GW-HS-040215 (490-75790-12), SBMW-7-GW-HS-040215 (490-75790-13), SWMW-6-GW-HS-040215 (490-75790-14), SPMW-5-GW-HS-040215 (490-75790-15), SPMW-6-GW-HS-040215 (490-75790-16), SPMW-9-GW-HS-040215 (490-75790-17), BRMW-09-GW-HS-040215 (490-75790-18), BRMW-08-GW-HS-040215 (490-75790-19), BRMW-03-GW-HS-040215 (490-75790-20), BRMW-03A-GW-HS-040215 (490-75790-21), BRMW-14-GW-HS-040215 (490-75790-22), BRMW-14A-GW-HS-040215 (490-75790-23), BRMW-12A-GW-HS-040215 (490-75790-24), BRMW-02-GW-HS-040215 (490-75790-25) and BRMW-02A-GW-HS-040215 (490-75790-26) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/11/2015, 04/13/2015 and 04/14/2015.

Vinyl chloride failed the recovery criteria high for the MS of sample SWMW-5-GW-HS-040215MS (490-75790-8) in batch 490-240982.

Tetrachloroethene failed the recovery criteria low for the MS of sample 490-75933-11 in batch 490-240523.
Tetrachloroethene failed the recovery criteria low for the MSD of sample 490-75933-11 in batch 490-240523. Refer to the QC report for details.

Samples SPRW-205-GW-HS-040215 (490-75790-3)[5X], SPRW-201-GW-HS-040215 (490-75790-5)[20X], SPRW-206-GW-HS-040215 (490-75790-6)[5X], SBMW-6-GW-HS-040215 (490-75790-7)[10X], SBMW-5-GW-HS-040215 (490-75790-10)[20X], SBMW-5-GW-HS-040215-FD (490-75790-11)[20X] and SWMW-6-GW-HS-040215 (490-75790-14)[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.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples SPMW-18-GW-HS-040215 (490-75790-2), SBMW-6-GW-HS-040215 (490-75790-7), SWMW-5-GW-HS-040215 (490-75790-8), SBMW-5-GW-HS-040215 (490-75790-10), SBMW-5-GW-HS-040215-FD (490-75790-11) and SWMW-6-GW-HS-040215 (490-75790-14) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 04/06/2015 and analyzed on 04/15/2015.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 239249.

Sample SWMW-5-GW-HS-040215 (490-75790-8) was extracted using a reduced volume (450mL) due to insufficient volume at receipt. Elevated reporting limits are provided.

Samples SBMW-6-GW-HS-040215 (490-75790-7)[10X], SBMW-5-GW-HS-040215 (490-75790-10)[5X] and SBMW-5-GW-HS-040215-FD (490-75790-11)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP25 Analysis Batch Number: 238076

Lab Sample ID: STD001 490-238076/6 IC Client Sample ID:

Date Analyzed: 04/01/15 14:19 Lab File ID: 040115-06.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromo-3-Chloropropane	17.10	Poor chromatography	larsene	04/02/15 09:40

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP32 Analysis Batch Number: 233414

Lab Sample ID: STD0005 490-233414/2 IC Client Sample ID:

Date Analyzed: 03/13/15 11:26 Lab File ID: 031315-02.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	1.65	Poor chromatography	larsene	03/13/15 14:53

Lab Sample ID: STD001 490-233414/3 IC Client Sample ID:

Date Analyzed: 03/13/15 11:52 Lab File ID: 031315-03.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	1.65	Poor chromatography	larsene	03/13/15 13:51

Lab Sample ID: STD002 490-233414/4 IC Client Sample ID:

Date Analyzed: 03/13/15 12:19 Lab File ID: 031315-04.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	1.66	Split Peak	larsene	03/13/15 14:58

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/25 Client Sample ID:

Date Analyzed: 03/31/15 01:54 Lab File ID: 033015hp37.025dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:58
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:58
PCB-1221 Peak 3	3.05	Baseline Smoothing	thomash	03/31/15 11:58

Lab Sample ID: IC 490-237639/25 Client Sample ID:

Date Analyzed: 03/31/15 01:54 Lab File ID: 033015hp37.025dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 11:58
PCB-1221 Peak 1	2.25	Baseline Smoothing	thomash	03/31/15 11:58
PCB-1221 Peak 2	2.41	Baseline Smoothing	thomash	03/31/15 11:58
PCB-1221 Peak 3	3.18	Baseline Smoothing	thomash	03/31/15 11:58

Lab Sample ID: IC 490-237639/26 Client Sample ID:

Date Analyzed: 03/31/15 02:10 Lab File ID: 033015hp37.026dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 3	3.04	Baseline Smoothing	thomash	03/31/15 11:57

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/26 Client Sample ID:

Date Analyzed: 03/31/15 02:10 Lab File ID: 033015hp37.026dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 1	2.25	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 2	2.41	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 3	3.18	Baseline Smoothing	thomash	03/31/15 11:57

Lab Sample ID: IC 490-237639/27 Client Sample ID:

Date Analyzed: 03/31/15 02:25 Lab File ID: 033015hp37.027dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 3	3.04	Baseline Smoothing	thomash	03/31/15 11:57

Lab Sample ID: IC 490-237639/27 Client Sample ID:

Date Analyzed: 03/31/15 02:25 Lab File ID: 033015hp37.027dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 1	2.25	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 2	2.41	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 3	3.18	Baseline Smoothing	thomash	03/31/15 11:57

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/28 Client Sample ID:

Date Analyzed: 03/31/15 02:41 Lab File ID: 033015hp37.028dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 3	3.05	Baseline Smoothing	thomash	03/31/15 11:56

Lab Sample ID: ICIS 490-237639/29 Client Sample ID:

Date Analyzed: 03/31/15 02:56 Lab File ID: 033015hp37.029dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 3	3.05	Baseline Smoothing	thomash	03/31/15 11:56

Lab Sample ID: ICIS 490-237639/29 Client Sample ID:

Date Analyzed: 03/31/15 02:56 Lab File ID: 033015hp37.029dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 1	2.25	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 2	2.41	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 3	3.18	Baseline Smoothing	thomash	03/31/15 11:56

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/30 Client Sample ID:

Date Analyzed: 03/31/15 03:12 Lab File ID: 033015hp37.030dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 11:59
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:59
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:59
PCB-1221 Peak 3	3.05	Baseline Smoothing	thomash	03/31/15 11:59

Lab Sample ID: IC 490-237639/31 Client Sample ID:

Date Analyzed: 03/31/15 03:27 Lab File ID: 033015hp37.031dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 11:59
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:59
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:59
PCB-1221 Peak 3	3.05	Baseline Smoothing	thomash	03/31/15 11:59

Lab Sample ID: IC 490-237639/33 Client Sample ID:

Date Analyzed: 03/31/15 03:59 Lab File ID: 033015hp37.033dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:12

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/33 Client Sample ID:

Date Analyzed: 03/31/15 03:59 Lab File ID: 033015hp37.033dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1232 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 3	3.16	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 4	3.18	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 5	3.42	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1262 Peak 1	6.51	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1262 Peak 2	6.84	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1262 Peak 3	7.33	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1262 Peak 4	7.90	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1262 Peak 5	8.57	Baseline Smoothing	thomash	03/31/15 12:12

Lab Sample ID: IC 490-237639/34 Client Sample ID:

Date Analyzed: 03/31/15 04:14 Lab File ID: 033015hp37.034dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:13

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/34 Client Sample ID:

Date Analyzed: 03/31/15 04:14 Lab File ID: 033015hp37.034dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.50	Incomplete Integration	thomash	03/31/15 12:13
PCB-1232 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 3	3.16	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 4	3.18	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 5	3.42	Baseline Smoothing	thomash	03/31/15 12:13

Lab Sample ID: IC 490-237639/35 Client Sample ID:

Date Analyzed: 03/31/15 04:30 Lab File ID: 033015hp37.035dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:13

Lab Sample ID: IC 490-237639/36 Client Sample ID:

Date Analyzed: 03/31/15 04:45 Lab File ID: 033015hp37.036dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:14

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/36 Client Sample ID:

Date Analyzed: 03/31/15 04:45 Lab File ID: 033015hp37.036dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 1	6.51	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 2	6.84	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 3	7.33	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 4	7.90	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 5	8.57	Baseline Smoothing	thomash	03/31/15 12:14

Lab Sample ID: ICIS 490-237639/37 Client Sample ID:

Date Analyzed: 03/31/15 05:00 Lab File ID: 033015hp37.037dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 1	6.12	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 2	6.53	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 3	7.00	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 4	7.39	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 5	8.13	Baseline Smoothing	thomash	03/31/15 12:14

Lab Sample ID: ICIS 490-237639/37 Client Sample ID:

Date Analyzed: 03/31/15 05:00 Lab File ID: 033015hp37.037dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 12:14

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/38 Client Sample ID:

Date Analyzed: 03/31/15 05:16 Lab File ID: 033015hp37.038dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:15

Lab Sample ID: IC 490-237639/39 Client Sample ID:

Date Analyzed: 03/31/15 05:31 Lab File ID: 033015hp37.039dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:15

Lab Sample ID: IC 490-237639/39 Client Sample ID:

Date Analyzed: 03/31/15 05:31 Lab File ID: 033015hp37.039dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 3	3.16	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 4	3.18	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 5	3.42	Baseline Smoothing	thomash	03/31/15 12:15

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/41 Client Sample ID:

Date Analyzed: 03/31/15 06:02 Lab File ID: 033015hp37.041dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 13:16
PCB-1242 Peak 1	3.17	Baseline Smoothing	thomash	03/31/15 13:16
PCB-1242 Peak 2	3.23	Baseline Smoothing	thomash	03/31/15 13:16
PCB-1242 Peak 3	3.35	Baseline Smoothing	thomash	03/31/15 13:16
PCB-1242 Peak 4	3.38	Baseline Smoothing	thomash	03/31/15 13:16
PCB-1242 Peak 5	3.59	Baseline Smoothing	thomash	03/31/15 13:16

Lab Sample ID: IC 490-237639/41 Client Sample ID:

Date Analyzed: 03/31/15 06:02 Lab File ID: 033015hp37.041dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.31	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:04

Lab Sample ID: IC 490-237639/42 Client Sample ID:

Date Analyzed: 03/31/15 06:18 Lab File ID: 033015hp37.042dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 1	3.17	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 2	3.24	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 3	3.35	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 4	3.38	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 5	3.59	Baseline Smoothing	thomash	03/31/15 13:04

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/42 Client Sample ID:

Date Analyzed: 03/31/15 06:18 Lab File ID: 033015hp37.042dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.31	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:04

Lab Sample ID: IC 490-237639/43 Client Sample ID:

Date Analyzed: 03/31/15 06:33 Lab File ID: 033015hp37.043dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.17	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 2	3.24	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 3	3.35	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 4	3.38	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 5	3.59	Baseline Smoothing	thomash	03/31/15 13:05

Lab Sample ID: IC 490-237639/43 Client Sample ID:

Date Analyzed: 03/31/15 06:33 Lab File ID: 033015hp37.043dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.31	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:05

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/44 Client Sample ID:

Date Analyzed: 03/31/15 06:49 Lab File ID: 033015hp37.044dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 1	3.17	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 2	3.24	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 3	3.35	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 4	3.38	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 5	3.59	Split Peak	thomash	03/31/15 13:09

Lab Sample ID: IC 490-237639/44 Client Sample ID:

Date Analyzed: 03/31/15 06:49 Lab File ID: 033015hp37.044dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 1	3.31	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:05

Lab Sample ID: ICIS 490-237639/45 Client Sample ID:

Date Analyzed: 03/31/15 07:04 Lab File ID: 033015hp37.045dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.57	Baseline Smoothing	thomash	03/31/15 12:59
PCB-1242 Peak 1	3.17	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 2	3.24	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 3	3.35	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 4	3.38	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 5	3.59	Baseline Smoothing	thomash	03/31/15 13:06

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: ICIS 490-237639/45 Client Sample ID:

Date Analyzed: 03/31/15 07:04 Lab File ID: 033015hp37.045dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 1	3.31	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1268 Peak 2	7.39	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1268 Peak 3	7.73	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1268 Peak 4	8.12	Baseline Smoothing	thomash	03/31/15 13:06

Lab Sample ID: IC 490-237639/46 Client Sample ID:

Date Analyzed: 03/31/15 07:20 Lab File ID: 033015hp37.046dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.57	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 1	3.17	Split Peak	thomash	03/31/15 13:10
PCB-1242 Peak 2	3.24	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 3	3.35	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 4	3.38	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 5	3.59	Baseline Smoothing	thomash	03/31/15 13:06

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/46 Client Sample ID:

Date Analyzed: 03/31/15 07:20 Lab File ID: 033015hp37.046dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 1	3.32	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1268 Peak 2	7.40	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1268 Peak 3	7.74	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1268 Peak 4	8.12	Baseline Smoothing	thomash	03/31/15 13:06

Lab Sample ID: IC 490-237639/47 Client Sample ID:

Date Analyzed: 03/31/15 07:35 Lab File ID: 033015hp37.047dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 1	3.17	Split Peak	thomash	03/31/15 13:10
PCB-1242 Peak 2	3.24	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 3	3.35	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 4	3.38	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 5	3.59	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 1	6.95	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 2	7.00	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 3	7.26	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 4	7.74	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 5	8.13	Baseline Smoothing	thomash	03/31/15 13:07

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/47 Client Sample ID:

Date Analyzed: 03/31/15 07:35 Lab File ID: 033015hp37.047dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.31	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 1	6.51	Unspecified	thomash	03/31/15 13:24
PCB-1268 Peak 2	7.40	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 3	7.74	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 4	8.13	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 5	8.93	Baseline Smoothing	thomash	03/31/15 13:07

Lab Sample ID: ICIS 490-237639/53 Client Sample ID:

Date Analyzed: 03/31/15 09:09 Lab File ID: 033015hp37.053dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.50	Incomplete Integration	thomash	03/31/15 12:36

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: IC 490-237912/3 Client Sample ID:

Date Analyzed: 03/31/15 16:21 Lab File ID: 033115hp37.003dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 17:45
Tetrachloro-m-xylene	2.06	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1260 Peak 3	5.66	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1260 Peak 4	6.13	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 17:45

Lab Sample ID: IC 490-237912/3 Client Sample ID:

Date Analyzed: 03/31/15 16:21 Lab File ID: 033115hp37.003dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 17:45
Tetrachloro-m-xylene	2.04	Baseline Smoothing	thomash	03/31/15 18:02
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 2	2.75	Split Peak	thomash	03/31/15 18:20
PCB-1016 Peak 3	2.95	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 17:45

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: IC 490-237912/4 Client Sample ID:

Date Analyzed: 03/31/15 16:36 Lab File ID: 033115hp37.004dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.57	Baseline Smoothing	thomash	03/31/15 17:44
Tetrachloro-m-xylene	2.06	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 3	5.66	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 4	6.13	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 17:44

Lab Sample ID: IC 490-237912/4 Client Sample ID:

Date Analyzed: 03/31/15 16:36 Lab File ID: 033115hp37.004dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 17:44
Tetrachloro-m-xylene	2.04	Baseline Smoothing	thomash	03/31/15 18:02
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 3	2.95	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 1	5.55	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 2	6.01	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 3	6.51	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 4	6.60	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 5	6.84	Baseline Smoothing	thomash	03/31/15 17:44

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: IC 490-237912/5 Client Sample ID:

Date Analyzed: 03/31/15 16:52 Lab File ID: 033115hp37.005dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.57	Baseline Smoothing	thomash	03/31/15 17:42
Tetrachloro-m-xylene	2.06	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1260 Peak 3	5.66	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1260 Peak 4	6.13	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 17:42

Lab Sample ID: IC 490-237912/5 Client Sample ID:

Date Analyzed: 03/31/15 16:52 Lab File ID: 033115hp37.005dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 18:02
Tetrachloro-m-xylene	2.05	Baseline Smoothing	thomash	03/31/15 18:02
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 18:02
PCB-1016 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 3	2.95	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 17:42

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: IC 490-237912/6 Client Sample ID:

Date Analyzed: 03/31/15 17:08 Lab File ID: 033115hp37.006dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 17:40
Tetrachloro-m-xylene	2.06	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 3	5.66	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 4	6.12	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 17:40

Lab Sample ID: IC 490-237912/6 Client Sample ID:

Date Analyzed: 03/31/15 17:08 Lab File ID: 033115hp37.006dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 17:40
Tetrachloro-m-xylene	2.04	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 3	2.94	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 1	5.55	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 2	6.01	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 3	6.51	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 4	6.60	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 5	6.84	Baseline Smoothing	thomash	03/31/15 17:40

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: ICRT 490-237912/7 Client Sample ID:

Date Analyzed: 03/31/15 17:23 Lab File ID: 033115hp37.007dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.57	Baseline Smoothing	thomash	03/31/15 17:39
Tetrachloro-m-xylene	2.06	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 3	5.66	Split Peak	thomash	03/31/15 17:39
PCB-1260 Peak 4	6.13	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 17:39

Lab Sample ID: ICRT 490-237912/7 Client Sample ID:

Date Analyzed: 03/31/15 17:23 Lab File ID: 033115hp37.007dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 17:39
Tetrachloro-m-xylene	2.05	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 2	2.75	Split Peak	thomash	03/31/15 17:39
PCB-1016 Peak 3	2.95	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 1	5.55	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 2	6.01	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 3	6.51	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 4	6.61	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 5	6.85	Baseline Smoothing	thomash	03/31/15 17:39

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: IC 490-237912/8 Client Sample ID:

Date Analyzed: 03/31/15 17:39 Lab File ID: 033115hp37.008dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.57	Baseline Smoothing	thomash	03/31/15 17:55
Tetrachloro-m-xylene	2.06	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1260 Peak 3	5.66	Split Peak	thomash	03/31/15 17:55
PCB-1260 Peak 4	6.12	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 17:55

Lab Sample ID: IC 490-237912/8 Client Sample ID:

Date Analyzed: 03/31/15 17:39 Lab File ID: 033115hp37.008dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 18:18
Tetrachloro-m-xylene	2.05	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 2	2.75	Split Peak	thomash	03/31/15 17:55
PCB-1016 Peak 3	2.95	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1260 Peak 1	5.55	Baseline Smoothing	thomash	03/31/15 18:26
PCB-1260 Peak 2	6.01	Baseline Smoothing	thomash	03/31/15 18:26
PCB-1260 Peak 3	6.51	Baseline Smoothing	thomash	03/31/15 18:26
PCB-1260 Peak 4	6.61	Baseline Smoothing	thomash	03/31/15 18:26
PCB-1260 Peak 5	6.85	Baseline Smoothing	thomash	03/31/15 18:26

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: IC 490-237912/9 Client Sample ID:

Date Analyzed: 03/31/15 17:54 Lab File ID: 033115hp37.009dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	4.97	Split Peak	thomash	03/31/15 18:25
PCB-1260 Peak 2	5.31	Split Peak	thomash	03/31/15 18:25
PCB-1260 Peak 3	5.66	Split Peak	thomash	03/31/15 18:25
PCB-1260 Peak 4	6.13	Split Peak	thomash	03/31/15 18:25
PCB-1260 Peak 5	6.53	Split Peak	thomash	03/31/15 18:25

Lab Sample ID: IC 490-237912/9 Client Sample ID:

Date Analyzed: 03/31/15 17:54 Lab File ID: 033115hp37.009dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.41	Split Peak	thomash	03/31/15 18:19
PCB-1016 Peak 2	2.75	Split Peak	thomash	03/31/15 18:19
PCB-1016 Peak 3	2.95	Split Peak	thomash	03/31/15 18:19
PCB-1016 Peak 4	2.98	Split Peak	thomash	03/31/15 18:19
PCB-1016 Peak 5	3.18	Split Peak	thomash	03/31/15 18:19

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: ICV 490-237912/10 Client Sample ID:

Date Analyzed: 03/31/15 18:10 Lab File ID: 033115hp37.010dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 3	5.66	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 4	6.13	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 18:32

Lab Sample ID: ICV 490-237912/10 Client Sample ID:

Date Analyzed: 03/31/15 18:10 Lab File ID: 033115hp37.010dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 3	2.95	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 1	5.55	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 2	6.01	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 3	6.51	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 4	6.60	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 5	6.84	Baseline Smoothing	thomash	03/31/15 18:32

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241134

Lab Sample ID: CCVRT 490-241134/2 Client Sample ID:

Date Analyzed: 04/14/15 12:15 Lab File ID: 041415hp37.002dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	4.95	Split Peak	harrisma	04/14/15 13:01
PCB-1260 Peak 2	5.29	Split Peak	harrisma	04/14/15 13:01
PCB-1260 Peak 3	5.64	Split Peak	harrisma	04/14/15 13:01
PCB-1260 Peak 4	6.10	Split Peak	harrisma	04/14/15 13:01
PCB-1260 Peak 5	6.50	Split Peak	harrisma	04/14/15 13:01

Lab Sample ID: CCVRT 490-241134/2 Client Sample ID:

Date Analyzed: 04/14/15 12:15 Lab File ID: 041415hp37.002dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.40	Split Peak	harrisma	04/14/15 13:01
PCB-1016 Peak 2	2.74	Split Peak	harrisma	04/14/15 13:01
PCB-1016 Peak 3	2.94	Split Peak	harrisma	04/14/15 13:01
PCB-1016 Peak 4	2.97	Split Peak	harrisma	04/14/15 13:01
PCB-1016 Peak 5	3.17	Split Peak	harrisma	04/14/15 13:01

Lab Sample ID: CCV 490-241134/4 Client Sample ID:

Date Analyzed: 04/14/15 12:46 Lab File ID: 041415hp37.004dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1232 Peak 1	2.31	Baseline Smoothing	harrisma	04/14/15 13:05
PCB-1232 Peak 2	2.60	Baseline Smoothing	harrisma	04/14/15 13:05
PCB-1232 Peak 3	3.01	Baseline Smoothing	harrisma	04/14/15 13:05
PCB-1232 Peak 4	3.03	Baseline Smoothing	harrisma	04/14/15 13:05
PCB-1232 Peak 5	3.16	Baseline Smoothing	harrisma	04/14/15 13:05

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241134

Lab Sample ID: CCV 490-241134/5 Client Sample ID:

Date Analyzed: 04/14/15 13:02 Lab File ID: 041415hp37.005dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.16	Split Peak	harrisma	04/14/15 13:22
PCB-1242 Peak 2	3.22	Split Peak	harrisma	04/14/15 13:22
PCB-1242 Peak 3	3.34	Split Peak	harrisma	04/14/15 13:22
PCB-1242 Peak 4	3.36	Split Peak	harrisma	04/14/15 13:22
PCB-1242 Peak 5	3.57	Split Peak	harrisma	04/14/15 13:22

Lab Sample ID: LCS 490-239249/2-A Client Sample ID:

Date Analyzed: 04/14/15 22:55 Lab File ID: 041415hp37.043dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	4.95	Split Peak	thomash	04/15/15 09:17
PCB-1260 Peak 2	5.29	Split Peak	thomash	04/15/15 09:17
PCB-1260 Peak 3	5.64	Split Peak	thomash	04/15/15 09:17
PCB-1260 Peak 4	6.10	Split Peak	thomash	04/15/15 09:17
PCB-1260 Peak 5	6.50	Split Peak	thomash	04/15/15 09:17

Lab Sample ID: LCS 490-239249/2-A Client Sample ID:

Date Analyzed: 04/14/15 22:55 Lab File ID: 041415hp37.043dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.40	Split Peak	thomash	04/15/15 09:17
PCB-1016 Peak 2	2.74	Split Peak	thomash	04/15/15 09:17
PCB-1016 Peak 3	2.94	Split Peak	thomash	04/15/15 09:17
PCB-1016 Peak 4	2.97	Split Peak	thomash	04/15/15 09:17
PCB-1016 Peak 5	3.17	Split Peak	thomash	04/15/15 09:17

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241134

Lab Sample ID: CCV 490-241134/78 Client Sample ID:

Date Analyzed: 04/15/15 11:51 Lab File ID: 041415hp37.078dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.16	Split Peak	harrisma	04/15/15 12:07
PCB-1242 Peak 2	3.22	Split Peak	harrisma	04/15/15 12:07
PCB-1242 Peak 3	3.34	Split Peak	harrisma	04/15/15 12:07
PCB-1242 Peak 4	3.37	Split Peak	harrisma	04/15/15 12:07
PCB-1242 Peak 5	3.58	Split Peak	harrisma	04/15/15 12:07

SAMPLE SUMMARY

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
490-75790-1TB	TB-02-040215	Water	04/02/2015 0900	04/03/2015 0830
490-75790-2	SPMW-18-GW-HS-040215	Water	04/02/2015 0930	04/03/2015 0830
490-75790-3	SPRW-205-GW-HS-040215	Water	04/02/2015 1015	04/03/2015 0830
490-75790-4	SPRW-204-GW-HS-040215	Water	04/02/2015 1030	04/03/2015 0830
490-75790-5	SPRW-201-GW-HS-040215	Water	04/02/2015 1040	04/03/2015 0830
490-75790-6	SPRW-206-GW-HS-040215	Water	04/02/2015 1050	04/03/2015 0830
490-75790-7	SBMW-6-GW-HS-040215	Water	04/02/2015 1230	04/03/2015 0830
490-75790-8	SWMW-5-GW-HS-040215	Water	04/02/2015 1245	04/03/2015 0830
490-75790-9	SAMW-2-GW-HS-040215	Water	04/02/2015 1400	04/03/2015 0830
490-75790-10	SBMW-5-GW-HS-040215	Water	04/02/2015 1445	04/03/2015 0830
490-75790-11	SBMW-5-GW-HS-040215-FD	Water	04/02/2015 1450	04/03/2015 0830
490-75790-12	SBMW-3-GW-HS-040215	Water	04/02/2015 1500	04/03/2015 0830
490-75790-13	SBMW-7-GW-HS-040215	Water	04/02/2015 1520	04/03/2015 0830
490-75790-14	SWMW-6-GW-HS-040215	Water	04/02/2015 1630	04/03/2015 0830
490-75790-15	SPMW-5-GW-HS-040215	Water	04/02/2015 0855	04/03/2015 0830
490-75790-16	SPMW-6-GW-HS-040215	Water	04/02/2015 0916	04/03/2015 0830
490-75790-17	SPMW-9-GW-HS-040215	Water	04/02/2015 0910	04/03/2015 0830
490-75790-18	BRMW-09-GW-HS-040215	Water	04/02/2015 1455	04/03/2015 0830
490-75790-18MS	BRMW-09-GW-HS-040215	Water	04/02/2015 1455	04/03/2015 0830
490-75790-18MSD	BRMW-09-GW-HS-040215	Water	04/02/2015 1455	04/03/2015 0830
490-75790-19	BRMW-08-GW-HS-040215	Water	04/02/2015 1535	04/03/2015 0830
490-75790-20	BRMW-03-GW-HS-040215	Water	04/02/2015 1550	04/03/2015 0830
490-75790-21	BRMW-03A-GW-HS-040215	Water	04/02/2015 1555	04/03/2015 0830
490-75790-22	BRMW-14-GW-HS-040215	Water	04/02/2015 1605	04/03/2015 0830
490-75790-23	BRMW-14A-GW-HS-040215	Water	04/02/2015 1615	04/03/2015 0830
490-75790-24	BRMW-12A-GW-HS-040215	Water	04/02/2015 1625	04/03/2015 0830
490-75790-25	BRMW-02-GW-HS-040215	Water	04/02/2015 1640	04/03/2015 0830
490-75790-26	BRMW-02A-GW-HS-040215	Water	04/02/2015 1645	04/03/2015 0830

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-75790-2	**SPMW-18-GW-HS-040215**					
cis-1,2-Dichloroethene		0.468	J	1.00	ug/L	8260B
Tetrachloroethene		17.0		1.00	ug/L	8260B
Trichloroethene		7.40		1.00	ug/L	8260B
490-75790-3	**SPRW-205-GW-HS-040215**					
cis-1,2-Dichloroethene		41.1		1.00	ug/L	8260B
Tetrachloroethene		191		5.00	ug/L	8260B
Trichloroethene		139		1.00	ug/L	8260B
490-75790-4	**SPRW-204-GW-HS-040215**					
cis-1,2-Dichloroethene		107		1.00	ug/L	8260B
1,1-Dichloroethene		0.298	J	1.00	ug/L	8260B
Tetrachloroethene		78.6		1.00	ug/L	8260B
trans-1,2-Dichloroethene		0.412	J	1.00	ug/L	8260B
Trichloroethene		181		1.00	ug/L	8260B
490-75790-5	**SPRW-201-GW-HS-040215**					
cis-1,2-Dichloroethene		1670		20.0	ug/L	8260B
1,1-Dichloroethene		4.79		1.00	ug/L	8260B
Tetrachloroethene		198		1.00	ug/L	8260B
trans-1,2-Dichloroethene		3.25		1.00	ug/L	8260B
Trichloroethene		1030		20.0	ug/L	8260B
Vinyl chloride		9.06		1.00	ug/L	8260B
490-75790-6	**SPRW-206-GW-HS-040215**					
cis-1,2-Dichloroethene		40.8		1.00	ug/L	8260B
Tetrachloroethene		197		5.00	ug/L	8260B
Trichloroethene		287		5.00	ug/L	8260B
490-75790-7	**SBMW-6-GW-HS-040215**					
cis-1,2-Dichloroethene		23.2		1.00	ug/L	8260B
Tetrachloroethene		582		10.0	ug/L	8260B
trans-1,2-Dichloroethene		0.233	J	1.00	ug/L	8260B
Trichloroethene		33.9		1.00	ug/L	8260B
PCB-1248		67.0		4.81	ug/L	8082A

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-75790-8	**SWMW-5-GW-HS-040215**					
cis-1,2-Dichloroethene		12.9		1.00	ug/L	8260B
1,1-Dichloroethene		1.48		1.00	ug/L	8260B
Tetrachloroethene		5.64		1.00	ug/L	8260B
trans-1,2-Dichloroethene		0.252	J	1.00	ug/L	8260B
Trichloroethene		11.7		1.00	ug/L	8260B
Vinyl chloride		2.57		1.00	ug/L	8260B
PCB-1248		5.36		1.11	ug/L	8082A
490-75790-9	**SAMW-2-GW-HS-040215**					
Tetrachloroethene		0.277	J	1.00	ug/L	8260B
490-75790-10	**SBMW-5-GW-HS-040215**					
cis-1,2-Dichloroethene		485		20.0	ug/L	8260B
Tetrachloroethene		3270		20.0	ug/L	8260B
trans-1,2-Dichloroethene		2.60		1.00	ug/L	8260B
Trichloroethene		215		20.0	ug/L	8260B
PCB-1248		12.9		2.55	ug/L	8082A
490-75790-11	**SBMW-5-GW-HS-040215-FD**					
cis-1,2-Dichloroethene		493		20.0	ug/L	8260B
Tetrachloroethene		3790		20.0	ug/L	8260B
trans-1,2-Dichloroethene		2.54		1.00	ug/L	8260B
Trichloroethene		226		20.0	ug/L	8260B
PCB-1248		14.4		2.34	ug/L	8082A
490-75790-12	**SBMW-3-GW-HS-040215**					
Tetrachloroethene		7.58		1.00	ug/L	8260B
Trichloroethene		0.353	J	1.00	ug/L	8260B
490-75790-13	**SBMW-7-GW-HS-040215**					
Tetrachloroethene		1.85		1.00	ug/L	8260B
490-75790-14	**SWMW-6-GW-HS-040215**					
cis-1,2-Dichloroethene		1.73		1.00	ug/L	8260B
Tetrachloroethene		397		5.00	ug/L	8260B
Trichloroethene		11.9		1.00	ug/L	8260B
PCB-1248		3.58		0.481	ug/L	8082A

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-75790-16	**SPMW-6-GW-HS-040215**					
Tetrachloroethene		0.175	J	1.00	ug/L	8260B
490-75790-20	**BRMW-03-GW-HS-040215**					
Tetrachloroethene		1.64		1.00	ug/L	8260B
Trichloroethene		1.28		1.00	ug/L	8260B
490-75790-22	**BRMW-14-GW-HS-040215**					
Tetrachloroethene		0.340	J	1.00	ug/L	8260B
490-75790-23	**BRMW-14A-GW-HS-040215**					
Tetrachloroethene		0.335	J	1.00	ug/L	8260B
490-75790-24	**BRMW-12A-GW-HS-040215**					
Tetrachloroethene		1.03		1.00	ug/L	8260B
Trichloroethene		0.357	J	1.00	ug/L	8260B
490-75790-25	**BRMW-02-GW-HS-040215**					
cis-1,2-Dichloroethene		0.804	J	1.00	ug/L	8260B
Tetrachloroethene		39.0		1.00	ug/L	8260B
Trichloroethene		102		1.00	ug/L	8260B
490-75790-26	**BRMW-02A-GW-HS-040215**					
Tetrachloroethene		1.42		1.00	ug/L	8260B
Trichloroethene		0.501	J	1.00	ug/L	8260B

METHOD SUMMARY

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL NSH	SW846 8260B	
Purge and Trap	TAL NSH		SW846 5030B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL NSH	SW846 8082A	
Liquid-Liquid Extraction (Separatory Funnel)	TAL NSH		SW846 3510C

Lab References:

TAL NSH = TestAmerica Nashville

Method References:

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

METHOD / ANALYST SUMMARY

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Method	Analyst	Analyst ID
SW846 8260B	Larsen, Eric	EML
SW846 8082A	Harris, Matt	MGH

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **TB-02-040215**

Lab Sample ID: 490-75790-1TB Date Sampled: 04/02/2015 0900
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240926	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-18.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 1742			Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 1742				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SPMW-18-GW-HS-040215**

Lab Sample ID: 490-75790-2 Date Sampled: 04/02/2015 0930
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240926	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-33.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0022			Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0022				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	0.468	J	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	17.0		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	7.40		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SPRW-205-GW-HS-040215**

Lab Sample ID: 490-75790-3 Date Sampled: 04/02/2015 1015
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240821	Instrument ID:	HP25
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-18.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 1819			Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 1819				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	41.1		0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	139		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SPRW-205-GW-HS-040215**

Lab Sample ID: 490-75790-3 Date Sampled: 04/02/2015 1015
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240821	Instrument ID:	HP25
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-19.D
Dilution:	5.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 1847	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 1847				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Tetrachloroethene	191		0.700	5.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SPRW-204-GW-HS-040215**

Lab Sample ID: 490-75790-4 Date Sampled: 04/02/2015 1030
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240926	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-34.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0049			Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0049				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	107		0.210	1.00
1,1-Dichloroethene	0.298	J	0.250	1.00
Tetrachloroethene	78.6		0.140	1.00
trans-1,2-Dichloroethene	0.412	J	0.230	1.00
Trichloroethene	181		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SPRW-201-GW-HS-040215**

Lab Sample ID: 490-75790-5 Date Sampled: 04/02/2015 1040
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240980	Instrument ID:	HP25
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-46.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0737			Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0737				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1-Dichloroethene	4.79		0.250	1.00
Tetrachloroethene	198		0.140	1.00
trans-1,2-Dichloroethene	3.25		0.230	1.00
Vinyl chloride	9.06		0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SPRW-201-GW-HS-040215**

Lab Sample ID: 490-75790-5 Date Sampled: 04/02/2015 1040
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240980	Instrument ID:	HP25
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-48.D
Dilution:	20			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0834	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0834				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1670		4.20	20.0
Trichloroethene	1030		4.00	20.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SPRW-206-GW-HS-040215**

Lab Sample ID: 490-75790-6 Date Sampled: 04/02/2015 1050
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240821	Instrument ID:	HP25
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-20.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 1916			Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 1916				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	40.8		0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	108		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SPRW-206-GW-HS-040215**

Lab Sample ID: 490-75790-6 Date Sampled: 04/02/2015 1050
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240821	Instrument ID:	HP25
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-21.D
Dilution:	5.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 1944	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 1944				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Tetrachloroethene	197		0.700	5.00
Trichloroethene	287		1.00	5.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SBMW-6-GW-HS-040215**

Lab Sample ID: 490-75790-7 Date Sampled: 04/02/2015 1230
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240980	Instrument ID:	HP25
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-44.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0640			Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0640				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	23.2		0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
trans-1,2-Dichloroethene	0.233	J	0.230	1.00
Trichloroethene	33.9		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	92		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SBMW-6-GW-HS-040215**

Lab Sample ID: 490-75790-7 Date Sampled: 04/02/2015 1230
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240980	Instrument ID:	HP25
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-45.D
Dilution:	10			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0708	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0708				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Tetrachloroethene	582		1.40	10.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	92		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SWMW-5-GW-HS-040215**

Lab Sample ID: 490-75790-8 Date Sampled: 04/02/2015 1245
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240982	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-45.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0541			Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0541				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	12.9		0.210	1.00
1,1-Dichloroethene	1.48		0.250	1.00
Tetrachloroethene	5.64		0.140	1.00
trans-1,2-Dichloroethene	0.252	J	0.230	1.00
Trichloroethene	11.7		0.200	1.00
Vinyl chloride	2.57		0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SAMW-2-GW-HS-040215**

Lab Sample ID: 490-75790-9 Date Sampled: 04/02/2015 1400
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240982	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-46.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0608			Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0608				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	0.277	J	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SBMW-5-GW-HS-040215**

Lab Sample ID: 490-75790-10 Date Sampled: 04/02/2015 1445
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240982	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-49.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0728			Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0728				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1-Dichloroethene	1.00	U	0.250	1.00
trans-1,2-Dichloroethene	2.60		0.230	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SBMW-5-GW-HS-040215**

Lab Sample ID: 490-75790-10 Date Sampled: 04/02/2015 1445
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240982	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-52.D
Dilution:	20			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0848	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0848				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	485		4.20	20.0
Tetrachloroethene	3270		2.80	20.0
Trichloroethene	215		4.00	20.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SBMW-5-GW-HS-040215-FD**

Lab Sample ID: 490-75790-11 Date Sampled: 04/02/2015 1450
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240982	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-50.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0754			Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0754				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1-Dichloroethene	1.00	U	0.250	1.00
trans-1,2-Dichloroethene	2.54		0.230	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SBMW-5-GW-HS-040215-FD**

Lab Sample ID: 490-75790-11 Date Sampled: 04/02/2015 1450
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240982	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-53.D
Dilution:	20			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0914	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0914				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	493		4.20	20.0
Tetrachloroethene	3790		2.80	20.0
Trichloroethene	226		4.00	20.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SBMW-3-GW-HS-040215**

Lab Sample ID: 490-75790-12 Date Sampled: 04/02/2015 1500
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240982	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-47.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0635			Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0635				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	7.58		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	0.353	J	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SBMW-7-GW-HS-040215**

Lab Sample ID: 490-75790-13 Date Sampled: 04/02/2015 1520
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240982	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-48.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0701			Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0701				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.85		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SWMW-6-GW-HS-040215**

Lab Sample ID: 490-75790-14 Date Sampled: 04/02/2015 1630
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240821	Instrument ID:	HP25
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-22.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 2013			Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 2013				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.73		0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	11.9		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SWMW-6-GW-HS-040215**

Lab Sample ID: 490-75790-14 Date Sampled: 04/02/2015 1630
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240821	Instrument ID:	HP25
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-23.D
Dilution:	5.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 2042	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 2042				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Tetrachloroethene	397		0.700	5.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SPMW-5-GW-HS-040215**

Lab Sample ID: 490-75790-15 Date Sampled: 04/02/2015 0855
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240523	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-40.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 0309			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 0309				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	107		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SPMW-6-GW-HS-040215**

Lab Sample ID: 490-75790-16 Date Sampled: 04/02/2015 0916
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240523	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-41.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 0336			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 0336				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	0.175	J	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	106		70 - 130
Dibromofluoromethane (Surr)	92		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SPMW-9-GW-HS-040215**

Lab Sample ID: 490-75790-17 Date Sampled: 04/02/2015 0910
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240523	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-42.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 0402			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 0402				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	106		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **BRMW-09-GW-HS-040215**

Lab Sample ID: 490-75790-18 Date Sampled: 04/02/2015 1455
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240926	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-19.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 1808			Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 1808				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **BRMW-08-GW-HS-040215**

Lab Sample ID: 490-75790-19 Date Sampled: 04/02/2015 1535
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240523	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-43.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 0429			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 0429				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	106		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **BRMW-03-GW-HS-040215**

Lab Sample ID: 490-75790-20 Date Sampled: 04/02/2015 1550
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240523	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-44.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 0455			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 0455				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.64		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.28		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	109		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **BRMW-03A-GW-HS-040215**

Lab Sample ID: 490-75790-21 Date Sampled: 04/02/2015 1555
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240523	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-45.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 0522			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 0522				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	106		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **BRMW-14-GW-HS-040215**

Lab Sample ID: 490-75790-22 Date Sampled: 04/02/2015 1605
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240523	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-46.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 0548			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 0548				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	0.340	J	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **BRMW-14A-GW-HS-040215**

Lab Sample ID: 490-75790-23 Date Sampled: 04/02/2015 1615
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240523	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-47.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 0615			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 0615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	0.335	J	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	105		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **BRMW-12A-GW-HS-040215**

Lab Sample ID: 490-75790-24 Date Sampled: 04/02/2015 1625
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240523	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-48.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 0641			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 0641				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.03		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	0.357	J	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	105		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **BRMW-02-GW-HS-040215**

Lab Sample ID: 490-75790-25 Date Sampled: 04/02/2015 1640
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240523	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-49.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 0707			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 0707				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	0.804	J	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	39.0		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	102		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **BRMW-02A-GW-HS-040215**

Lab Sample ID: 490-75790-26 Date Sampled: 04/02/2015 1645
Client Matrix: Water Date Received: 04/03/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240523	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-50.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 0734			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 0734				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.42		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	0.501	J	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SPMW-18-GW-HS-040215**

Lab Sample ID: 490-75790-2 Date Sampled: 04/02/2015 0930
Client Matrix: Water Date Received: 04/03/2015 0830

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-241134	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-239249	Initial Weight/Volume:	1060 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	04/15/2015 0013			Injection Volume:	1 uL
Prep Date:	04/06/2015 1334			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	0.472	U	0.0604	0.472
PCB-1248	0.472	U	0.0651	0.472
PCB-1254	0.472	U	0.00660	0.472

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	32		10 - 150
Tetrachloro-m-xylene	76		10 - 150

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SBMW-6-GW-HS-040215**

Lab Sample ID: 490-75790-7 Date Sampled: 04/02/2015 1230
Client Matrix: Water Date Received: 04/03/2015 0830

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-241134	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-239249	Initial Weight/Volume:	1040 mL
Dilution:	10			Final Weight/Volume:	5 mL
Analysis Date:	04/15/2015 1052			Injection Volume:	1 uL
Prep Date:	04/06/2015 1334			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	4.81	U	0.615	4.81
PCB-1248	67.0		0.663	4.81
PCB-1254	4.81	U	0.0673	4.81

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	40		10 - 150
Tetrachloro-m-xylene	71		10 - 150

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SWMW-5-GW-HS-040215**

Lab Sample ID: 490-75790-8 Date Sampled: 04/02/2015 1245
Client Matrix: Water Date Received: 04/03/2015 0830

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-241134	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-239249	Initial Weight/Volume:	450 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	04/15/2015 0044			Injection Volume:	1 uL
Prep Date:	04/06/2015 1334			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	1.11	U	0.142	1.11
PCB-1248	5.36		0.153	1.11
PCB-1254	1.11	U	0.0156	1.11

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	60		10 - 150
Tetrachloro-m-xylene	83		10 - 150

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SBMW-5-GW-HS-040215**

Lab Sample ID: 490-75790-10 Date Sampled: 04/02/2015 1445
Client Matrix: Water Date Received: 04/03/2015 0830

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-241134	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-239249	Initial Weight/Volume:	980 mL
Dilution:	5.0			Final Weight/Volume:	5 mL
Analysis Date:	04/15/2015 1108			Injection Volume:	1 uL
Prep Date:	04/06/2015 1334			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	2.55	U	0.327	2.55
PCB-1248	12.9		0.352	2.55
PCB-1254	2.55	U	0.0357	2.55

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	59		10 - 150
Tetrachloro-m-xylene	69		10 - 150

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SBMW-5-GW-HS-040215-FD**

Lab Sample ID: 490-75790-11 Date Sampled: 04/02/2015 1450
Client Matrix: Water Date Received: 04/03/2015 0830

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-241134	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-239249	Initial Weight/Volume:	1070 mL
Dilution:	5.0			Final Weight/Volume:	5 mL
Analysis Date:	04/15/2015 1123			Injection Volume:	1 uL
Prep Date:	04/06/2015 1334			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	2.34	U	0.299	2.34
PCB-1248	14.4		0.322	2.34
PCB-1254	2.34	U	0.0327	2.34

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	61		10 - 150
Tetrachloro-m-xylene	68		10 - 150

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Client Sample ID: **SWMW-6-GW-HS-040215**

Lab Sample ID: 490-75790-14 Date Sampled: 04/02/2015 1630
Client Matrix: Water Date Received: 04/03/2015 0830

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-241134	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-239249	Initial Weight/Volume:	1040 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	04/15/2015 0131			Injection Volume:	1 uL
Prep Date:	04/06/2015 1334			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	0.481	U	0.0615	0.481
PCB-1248	3.58		0.0663	0.481
PCB-1254	0.481	U	0.00673	0.481

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	45		10 - 150
Tetrachloro-m-xylene	56		10 - 150

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
490-75790-1	TB-02-040215	97	95	103	98
490-75790-2	SPMW-18-GW-HS-040215	97	95	102	96
490-75790-3	SPRW-205-GW-HS-040215	96	109	102	98
490-75790-3 DL	SPRW-205-GW-HS-040215 DL	97	107	100	97
490-75790-4	SPRW-204-GW-HS-040215	94	95	102	95
490-75790-5	SPRW-201-GW-HS-040215	93	106	101	99
490-75790-5 DL	SPRW-201-GW-HS-040215 DL	95	109	102	97
490-75790-6	SPRW-206-GW-HS-040215	108	111	101	99
490-75790-6 DL	SPRW-206-GW-HS-040215 DL	97	108	102	101
490-75790-7	SBMW-6-GW-HS-040215	92	104	100	97
490-75790-7 DL	SBMW-6-GW-HS-040215 DL	92	104	102	98
490-75790-8	SWMW-5-GW-HS-040215	96	95	102	98
490-75790-9	SAMW-2-GW-HS-040215	95	95	104	99
490-75790-10	SBMW-5-GW-HS-040215	95	94	100	99
490-75790-10 DL	SBMW-5-GW-HS-040215 DL	95	95	102	98
490-75790-11	SBMW-5-GW-HS-040215-FD	95	94	101	102
490-75790-11 DL	SBMW-5-GW-HS-040215-FD DL	95	94	103	98
490-75790-12	SBMW-3-GW-HS-040215	96	96	103	101
490-75790-13	SBMW-7-GW-HS-040215	95	93	103	98

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Client: CH2M Hill, Inc.

Job Number: 490-75790-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
490-75790-14	SWMW-6-GW-HS-040215	101	109	101	99
490-75790-14 DL	SWMW-6-GW-HS-040215 DL	99	107	101	96
490-75790-15	SPMW-5-GW-HS-040215	94	100	98	107
490-75790-16	SPMW-6-GW-HS-040215	92	98	100	106
490-75790-17	SPMW-9-GW-HS-040215	97	101	101	106
490-75790-18	BRMW-09-GW-HS-040215	96	95	102	100
490-75790-19	BRMW-08-GW-HS-040215	97	100	100	106
490-75790-20	BRMW-03-GW-HS-040215	96	101	100	109
490-75790-21	BRMW-03A-GW-HS-040215	96	100	101	106
490-75790-22	BRMW-14-GW-HS-040215	98	102	100	104
490-75790-23	BRMW-14A-GW-HS-040215	95	101	100	105
490-75790-24	BRMW-12A-GW-HS-040215	94	100	100	105
490-75790-25	BRMW-02-GW-HS-040215	94	99	102	102
490-75790-26	BRMW-02A-GW-HS-040215	97	101	103	103
MB 490-240523/6		96	103	98	103
MB 490-240821/7		106	106	101	99
MB 490-240926/7		96	95	100	98
MB 490-240980/7		95	106	102	97
MB 490-240982/7		96	94	101	100
LCS 490-240523/3		93	97	99	111
LCS 490-240821/3		99	98	104	101

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Client: CH2M Hill, Inc.

Job Number: 490-75790-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
LCS 490-240926/4		94	90	100	102
LCS 490-240980/3		89	100	103	100
LCS 490-240982/3		93	90	101	103
LCSD 490-240821/4		99	99	101	98
LCSD 490-240980/4		102	101	101	98
LCSD 490-240982/4		96	91	100	102
490-75790-8 MS	SWMW-5-GW-HS-04 0215 MS	94	91	100	100
490-75790-18 MS	BRMW-09-GW-HS-04 0215 MS	95	92	100	100
490-75790-8 MSD	SWMW-5-GW-HS-04 0215 MSD	93	88	101	102
490-75790-18 MSD	BRMW-09-GW-HS-04 0215 MSD	95	91	101	102

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Client: CH2M Hill, Inc.

Job Number: 490-75790-1

Surrogate Recovery Report

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
490-75790-2	SPMW-18-GW-HS-040215	76			32
490-75790-7	SBMW-6-GW-HS-040215		71	40	
490-75790-8	SWMW-5-GW-HS-040215		83		60
490-75790-10	SBMW-5-GW-HS-040215		69		59
490-75790-11	SBMW-5-GW-HS-040215-FD		68		61
490-75790-14	SWMW-6-GW-HS-040215		56		45
MB 490-239249/1-A		80			66
LCS 490-239249/2-A		78			64

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	10-150
DCB = DCB Decachlorobiphenyl (Surr)	10-150

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Method Blank - Batch: 490-240523

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-240523/6	Analysis Batch:	490-240523	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041015-37.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 0151	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 0151				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	70 - 130
4-Bromofluorobenzene (Surr)	103	70 - 130
Dibromofluoromethane (Surr)	96	70 - 130
Toluene-d8 (Surr)	98	70 - 130

Lab Control Sample - Batch: 490-240523

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 490-240523/3	Analysis Batch:	490-240523	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041015-34.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 0032	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 0032				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
cis-1,2-Dichloroethene	50.0	48.85	98	76 - 125	
1,1-Dichloroethene	50.0	47.38	95	79 - 124	
Tetrachloroethene	50.0	42.46	85	80 - 126	
trans-1,2-Dichloroethene	50.0	50.82	102	79 - 126	
Trichloroethene	50.0	43.07	86	80 - 123	
Vinyl chloride	62.5	64.22	103	68 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	70 - 130
4-Bromofluorobenzene (Surr)	111	70 - 130
Dibromofluoromethane (Surr)	93	70 - 130
Toluene-d8 (Surr)	99	70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Method Blank - Batch: 490-240821

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-240821/7	Analysis Batch:	490-240821	Instrument ID:	HP25
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 1306	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 1306				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106	70 - 130
4-Bromofluorobenzene (Surr)	99	70 - 130
Dibromofluoromethane (Surr)	106	70 - 130
Toluene-d8 (Surr)	101	70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-240821

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-240821/3	Analysis Batch:	490-240821	Instrument ID:	HP25
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 1112	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 1112				10 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-240821/4	Analysis Batch:	490-240821	Instrument ID:	HP25
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 1141	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 1141				10 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
cis-1,2-Dichloroethene	89	89	76 - 125	0	17		
1,1-Dichloroethene	89	89	79 - 124	0	17		
Tetrachloroethene	109	105	80 - 126	4	16		
trans-1,2-Dichloroethene	86	86	79 - 126	0	16		
Trichloroethene	108	107	80 - 123	1	17		
Vinyl chloride	102	100	68 - 120	2	17		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98	99	70 - 130
4-Bromofluorobenzene (Surr)	101	98	70 - 130
Dibromofluoromethane (Surr)	99	99	70 - 130
Toluene-d8 (Surr)	104	101	70 - 130

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-240821

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-240821/3	Units:	ug/L	LCSD Lab Sample ID:	LCSD 490-240821/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/13/2015 1112			Analysis Date:	04/13/2015 1141
Prep Date:	04/13/2015 1112			Prep Date:	04/13/2015 1141
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
cis-1,2-Dichloroethene	50.0	50.0	44.52	44.72
1,1-Dichloroethene	50.0	50.0	44.33	44.28
Tetrachloroethene	50.0	50.0	54.33	52.32
trans-1,2-Dichloroethene	50.0	50.0	43.06	43.01
Trichloroethene	50.0	50.0	53.86	53.26
Vinyl chloride	62.5	62.5	63.99	62.74

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Method Blank - Batch: 490-240926

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-240926/7	Analysis Batch:	490-240926	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-17.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 1715	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 1715				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	70 - 130
4-Bromofluorobenzene (Surr)	98	70 - 130
Dibromofluoromethane (Surr)	96	70 - 130
Toluene-d8 (Surr)	100	70 - 130

Lab Control Sample - Batch: 490-240926

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 490-240926/4	Analysis Batch:	490-240926	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-14.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 1555	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 1555				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
cis-1,2-Dichloroethene	50.0	52.40	105	76 - 125	
1,1-Dichloroethene	50.0	52.03	104	79 - 124	
Tetrachloroethene	50.0	47.11	94	80 - 126	
trans-1,2-Dichloroethene	50.0	55.06	110	79 - 126	
Trichloroethene	50.0	47.59	95	80 - 123	
Vinyl chloride	62.5	74.78	120	68 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90	70 - 130
4-Bromofluorobenzene (Surr)	102	70 - 130
Dibromofluoromethane (Surr)	94	70 - 130
Toluene-d8 (Surr)	100	70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-240926

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-75790-18	Analysis Batch:	490-240926	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-36.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0142			Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0142				10 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-75790-18	Analysis Batch:	490-240926	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-37.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0209			Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0209				10 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
cis-1,2-Dichloroethene	105	106	68 - 138	0	17		
1,1-Dichloroethene	110	111	70 - 142	1	17		
Tetrachloroethene	97	98	72 - 145	1	16		
trans-1,2-Dichloroethene	114	113	66 - 143	1	16		
Trichloroethene	98	97	73 - 144	0	17		
Vinyl chloride	122	122	56 - 129	0	17		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92	91	70 - 130
4-Bromofluorobenzene (Surr)	100	102	70 - 130
Dibromofluoromethane (Surr)	95	95	70 - 130
Toluene-d8 (Surr)	100	101	70 - 130

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-240926

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-75790-18	Units:	ug/L	MSD Lab Sample ID:	490-75790-18
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/14/2015 0142			Analysis Date:	04/14/2015 0209
Prep Date:	04/14/2015 0142			Prep Date:	04/14/2015 0209
Leach Date:	N/A			Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS	MSD
Analyte	Result/Qual		Amount	Amount	Result/Qual	Result/Qual
cis-1,2-Dichloroethene	1.00	U	50.0	50.0	52.73	52.92
1,1-Dichloroethene	1.00	U	50.0	50.0	55.01	55.52
Tetrachloroethene	1.00	U	50.0	50.0	48.68	49.09
trans-1,2-Dichloroethene	1.00	U	50.0	50.0	57.09	56.70
Trichloroethene	1.00	U	50.0	50.0	48.80	48.58
Vinyl chloride	1.00	U	62.5	62.5	76.35	76.23

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Method Blank - Batch: 490-240980

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-240980/7	Analysis Batch:	490-240980	Instrument ID:	HP25
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-32.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0058	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0058				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106	70 - 130
4-Bromofluorobenzene (Surr)	97	70 - 130
Dibromofluoromethane (Surr)	95	70 - 130
Toluene-d8 (Surr)	102	70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-240980

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-240980/3	Analysis Batch:	490-240980	Instrument ID:	HP25
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-28.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 2304	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 2304				10 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-240980/4	Analysis Batch:	490-240980	Instrument ID:	HP25
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-29.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 2332	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 2332				10 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
cis-1,2-Dichloroethene	85	84	76 - 125	2	17		
1,1-Dichloroethene	84	82	79 - 124	2	17		
Tetrachloroethene	102	99	80 - 126	3	16		
trans-1,2-Dichloroethene	83	81	79 - 126	3	16		
Trichloroethene	105	103	80 - 123	2	17		
Vinyl chloride	95	92	68 - 120	3	17		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	101	70 - 130
4-Bromofluorobenzene (Surr)	100	98	70 - 130
Dibromofluoromethane (Surr)	89	102	70 - 130
Toluene-d8 (Surr)	103	101	70 - 130

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-240980

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-240980/3	Units:	ug/L	LCSD Lab Sample ID:	LCSD 490-240980/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/13/2015 2304			Analysis Date:	04/13/2015 2332
Prep Date:	04/13/2015 2304			Prep Date:	04/13/2015 2332
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
cis-1,2-Dichloroethene	50.0	50.0	42.56	41.88
1,1-Dichloroethene	50.0	50.0	41.99	41.10
Tetrachloroethene	50.0	50.0	50.93	49.52
trans-1,2-Dichloroethene	50.0	50.0	41.52	40.41
Trichloroethene	50.0	50.0	52.64	51.74
Vinyl chloride	62.5	62.5	59.38	57.50

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Method Blank - Batch: 490-240982

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-240982/7	Analysis Batch:	490-240982	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-44.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0515	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0515				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	70 - 130
4-Bromofluorobenzene (Surr)	100	70 - 130
Dibromofluoromethane (Surr)	96	70 - 130
Toluene-d8 (Surr)	101	70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-240982

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-240982/3	Analysis Batch:	490-240982	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-40.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0329	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0329				10 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-240982/4	Analysis Batch:	490-240982	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-41.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0355	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0355				10 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
cis-1,2-Dichloroethene	99	99	76 - 125	0	17		
1,1-Dichloroethene	102	101	79 - 124	1	17		
Tetrachloroethene	93	90	80 - 126	3	16		
trans-1,2-Dichloroethene	106	106	79 - 126	0	16		
Trichloroethene	92	94	80 - 123	2	17		
Vinyl chloride	111	111	68 - 120	0	17		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90	91	70 - 130
4-Bromofluorobenzene (Surr)	103	102	70 - 130
Dibromofluoromethane (Surr)	93	96	70 - 130
Toluene-d8 (Surr)	101	100	70 - 130

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-240982

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-240982/3	Units:	ug/L	LCSD Lab Sample ID:	LCSD 490-240982/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/14/2015 0329			Analysis Date:	04/14/2015 0355
Prep Date:	04/14/2015 0329			Prep Date:	04/14/2015 0355
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
cis-1,2-Dichloroethene	50.0	50.0	49.75	49.59
1,1-Dichloroethene	50.0	50.0	50.99	50.73
Tetrachloroethene	50.0	50.0	46.40	45.04
trans-1,2-Dichloroethene	50.0	50.0	52.81	52.84
Trichloroethene	50.0	50.0	46.05	46.93
Vinyl chloride	62.5	62.5	69.21	69.21

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-240982

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-75790-8	Analysis Batch:	490-240982	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-54.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 0941			Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 0941				10 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-75790-8	Analysis Batch:	490-240982	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-55.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 1007			Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 1007				10 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
cis-1,2-Dichloroethene	107	95	68 - 138	9	17		
1,1-Dichloroethene	109	100	70 - 142	9	17		
Tetrachloroethene	99	89	72 - 145	9	16		
trans-1,2-Dichloroethene	114	103	66 - 143	10	16		
Trichloroethene	97	87	73 - 144	9	17		
Vinyl chloride	134	120	56 - 129	11	17	*	

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91	88	70 - 130
4-Bromofluorobenzene (Surr)	100	102	70 - 130
Dibromofluoromethane (Surr)	94	93	70 - 130
Toluene-d8 (Surr)	100	101	70 - 130

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-240982

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-75790-8	Units:	ug/L	MSD Lab Sample ID:	490-75790-8
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/14/2015 0941			Analysis Date:	04/14/2015 1007
Prep Date:	04/14/2015 0941			Prep Date:	04/14/2015 1007
Leach Date:	N/A			Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS		MSD
Analyte	Result/Qual		Amount	Amount	Result/Qual		Result/Qual
cis-1,2-Dichloroethene	12.9		50.0	50.0	66.25		60.52
1,1-Dichloroethene	1.48		50.0	50.0	56.16		51.42
Tetrachloroethene	5.64		50.0	50.0	55.01		50.23
trans-1,2-Dichloroethene	0.252	J	50.0	50.0	57.14		51.91
Trichloroethene	11.7		50.0	50.0	60.15		55.01
Vinyl chloride	2.57		62.5	62.5	86.31	*	77.41

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Method Blank - Batch: 490-239249

Method: 8082A
Preparation: 3510C

Lab Sample ID:	MB 490-239249/1-A	Analysis Batch:	490-241134	Instrument ID:	HP37
Client Matrix:	Water	Prep Batch:	490-239249	Lab File ID:	041415hp37.042dat.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	04/14/2015 2239	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/06/2015 1334			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
PCB-1242	0.500	U	0.0640	0.500
PCB-1248	0.500	U	0.0690	0.500
PCB-1254	0.500	U	0.00700	0.500

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	66	10 - 150
Tetrachloro-m-xylene	80	10 - 150

Lab Control Sample - Batch: 490-239249

Method: 8082A
Preparation: 3510C

Lab Sample ID:	LCS 490-239249/2-A	Analysis Batch:	490-241134	Instrument ID:	HP37
Client Matrix:	Water	Prep Batch:	490-239249	Lab File ID:	041415hp37.043dat.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	04/14/2015 2255	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/06/2015 1334			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	5.00	4.367	87	23 - 139	
PCB-1260	5.00	3.699	74	36 - 144	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	64	10 - 150
Tetrachloro-m-xylene	78	10 - 150

DATA REPORTING QUALIFIERS

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	J	Indicates an estimated value.
	*	MS or MSD exceeds the control limits
GC Semi VOA		
	U	Analyzed for but not detected.

Client: CH2M Hill, Inc. Job Number: 490-75790-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-240523					
LCS 490-240523/3	Lab Control Sample	T	Water	8260B	
MB 490-240523/6	Method Blank	T	Water	8260B	
490-75790-15	SPMW-5-GW-HS-040215	T	Water	8260B	
490-75790-16	SPMW-6-GW-HS-040215	T	Water	8260B	
490-75790-17	SPMW-9-GW-HS-040215	T	Water	8260B	
490-75790-19	BRMW-08-GW-HS-040215	T	Water	8260B	
490-75790-20	BRMW-03-GW-HS-040215	T	Water	8260B	
490-75790-21	BRMW-03A-GW-HS-040215	T	Water	8260B	
490-75790-22	BRMW-14-GW-HS-040215	T	Water	8260B	
490-75790-23	BRMW-14A-GW-HS-040215	T	Water	8260B	
490-75790-24	BRMW-12A-GW-HS-040215	T	Water	8260B	
490-75790-25	BRMW-02-GW-HS-040215	T	Water	8260B	
490-75790-26	BRMW-02A-GW-HS-040215	T	Water	8260B	
Analysis Batch:490-240821					
LCS 490-240821/3	Lab Control Sample	T	Water	8260B	
LCSD 490-240821/4	Lab Control Sample Duplicate	T	Water	8260B	
MB 490-240821/7	Method Blank	T	Water	8260B	
490-75790-3	SPRW-205-GW-HS-040215	T	Water	8260B	
490-75790-3DL	SPRW-205-GW-HS-040215	T	Water	8260B	
490-75790-6	SPRW-206-GW-HS-040215	T	Water	8260B	
490-75790-6DL	SPRW-206-GW-HS-040215	T	Water	8260B	
490-75790-14	SWMW-6-GW-HS-040215	T	Water	8260B	
490-75790-14DL	SWMW-6-GW-HS-040215	T	Water	8260B	
Analysis Batch:490-240926					
LCS 490-240926/4	Lab Control Sample	T	Water	8260B	
MB 490-240926/7	Method Blank	T	Water	8260B	
490-75790-1TB	TB-02-040215	T	Water	8260B	
490-75790-2	SPMW-18-GW-HS-040215	T	Water	8260B	
490-75790-4	SPRW-204-GW-HS-040215	T	Water	8260B	
490-75790-18	BRMW-09-GW-HS-040215	T	Water	8260B	
490-75790-18MS	Matrix Spike	T	Water	8260B	
490-75790-18MSD	Matrix Spike Duplicate	T	Water	8260B	
Analysis Batch:490-240980					
LCS 490-240980/3	Lab Control Sample	T	Water	8260B	
LCSD 490-240980/4	Lab Control Sample Duplicate	T	Water	8260B	
MB 490-240980/7	Method Blank	T	Water	8260B	
490-75790-5	SPRW-201-GW-HS-040215	T	Water	8260B	
490-75790-5DL	SPRW-201-GW-HS-040215	T	Water	8260B	
490-75790-7	SBMW-6-GW-HS-040215	T	Water	8260B	
490-75790-7DL	SBMW-6-GW-HS-040215	T	Water	8260B	

Client: CH2M Hill, Inc. Job Number: 490-75790-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-240982					
LCS 490-240982/3	Lab Control Sample	T	Water	8260B	
LCSD 490-240982/4	Lab Control Sample Duplicate	T	Water	8260B	
MB 490-240982/7	Method Blank	T	Water	8260B	
490-75790-8	SWMW-5-GW-HS-040215	T	Water	8260B	
490-75790-8MS	Matrix Spike	T	Water	8260B	
490-75790-8MSD	Matrix Spike Duplicate	T	Water	8260B	
490-75790-9	SAMW-2-GW-HS-040215	T	Water	8260B	
490-75790-10	SBMW-5-GW-HS-040215	T	Water	8260B	
490-75790-10DL	SBMW-5-GW-HS-040215	T	Water	8260B	
490-75790-11	SBMW-5-GW-HS-040215-FD	T	Water	8260B	
490-75790-11DL	SBMW-5-GW-HS-040215-FD	T	Water	8260B	
490-75790-12	SBMW-3-GW-HS-040215	T	Water	8260B	
490-75790-13	SBMW-7-GW-HS-040215	T	Water	8260B	

Report Basis
T = Total

GC Semi VOA

Prep Batch: 490-239249					
LCS 490-239249/2-A	Lab Control Sample	T	Water	3510C	
MB 490-239249/1-A	Method Blank	T	Water	3510C	
490-75790-2	SPMW-18-GW-HS-040215	T	Water	3510C	
490-75790-7	SBMW-6-GW-HS-040215	T	Water	3510C	
490-75790-8	SWMW-5-GW-HS-040215	T	Water	3510C	
490-75790-10	SBMW-5-GW-HS-040215	T	Water	3510C	
490-75790-11	SBMW-5-GW-HS-040215-FD	T	Water	3510C	
490-75790-14	SWMW-6-GW-HS-040215	T	Water	3510C	
Analysis Batch:490-241134					
LCS 490-239249/2-A	Lab Control Sample	T	Water	8082A	490-239249
MB 490-239249/1-A	Method Blank	T	Water	8082A	490-239249
490-75790-2	SPMW-18-GW-HS-040215	T	Water	8082A	490-239249
490-75790-7	SBMW-6-GW-HS-040215	T	Water	8082A	490-239249
490-75790-8	SWMW-5-GW-HS-040215	T	Water	8082A	490-239249
490-75790-10	SBMW-5-GW-HS-040215	T	Water	8082A	490-239249
490-75790-11	SBMW-5-GW-HS-040215-FD	T	Water	8082A	490-239249
490-75790-14	SWMW-6-GW-HS-040215	T	Water	8082A	490-239249

Report Basis
T = Total

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Laboratory Chronicle

Lab ID: 490-75790-1 **Client ID: TB-02-040215**

Sample Date/Time: 04/02/2015 09:00 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-B-1		490-240926		04/13/2015 17:42	1	TAL NSH	EML
A:8260B	490-75790-B-1		490-240926		04/13/2015 17:42	1	TAL NSH	EML

Lab ID: 490-75790-2 **Client ID: SPMW-18-GW-HS-040215**

Sample Date/Time: 04/02/2015 09:30 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-B-2		490-240926		04/14/2015 00:22	1	TAL NSH	EML
A:8260B	490-75790-B-2		490-240926		04/14/2015 00:22	1	TAL NSH	EML
P:3510C	490-75790-E-2-A		490-241134	490-239249	04/06/2015 13:34	1	TAL NSH	ET
A:8082A	490-75790-E-2-A		490-241134	490-239249	04/15/2015 00:13	1	TAL NSH	MGH

Lab ID: 490-75790-3 **Client ID: SPRW-205-GW-HS-040215**

Sample Date/Time: 04/02/2015 10:15 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-B-3		490-240821		04/13/2015 18:19	1	TAL NSH	EML
A:8260B	490-75790-B-3		490-240821		04/13/2015 18:19	1	TAL NSH	EML
P:5030B	490-75790-B-3	DL	490-240821		04/13/2015 18:47	5	TAL NSH	EML
A:8260B	490-75790-B-3	DL	490-240821		04/13/2015 18:47	5	TAL NSH	EML

Lab ID: 490-75790-4 **Client ID: SPRW-204-GW-HS-040215**

Sample Date/Time: 04/02/2015 10:30 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-B-4		490-240926		04/14/2015 00:49	1	TAL NSH	EML
A:8260B	490-75790-B-4		490-240926		04/14/2015 00:49	1	TAL NSH	EML

Lab ID: 490-75790-5 **Client ID: SPRW-201-GW-HS-040215**

Sample Date/Time: 04/02/2015 10:40 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-B-5		490-240980		04/14/2015 07:37	1	TAL NSH	EML
A:8260B	490-75790-B-5		490-240980		04/14/2015 07:37	1	TAL NSH	EML
P:5030B	490-75790-B-5	DL	490-240980		04/14/2015 08:34	20	TAL NSH	EML
A:8260B	490-75790-B-5	DL	490-240980		04/14/2015 08:34	20	TAL NSH	EML

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Laboratory Chronicle

Lab ID: 490-75790-6 **Client ID: SPRW-206-GW-HS-040215**

Sample Date/Time: 04/02/2015 10:50 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-B-6		490-240821		04/13/2015 19:16	1	TAL NSH	EML
A:8260B	490-75790-B-6		490-240821		04/13/2015 19:16	1	TAL NSH	EML
P:5030B	490-75790-B-6	DL	490-240821		04/13/2015 19:44	5	TAL NSH	EML
A:8260B	490-75790-B-6	DL	490-240821		04/13/2015 19:44	5	TAL NSH	EML

Lab ID: 490-75790-7 **Client ID: SBMW-6-GW-HS-040215**

Sample Date/Time: 04/02/2015 12:30 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-B-7		490-240980		04/14/2015 06:40	1	TAL NSH	EML
A:8260B	490-75790-B-7		490-240980		04/14/2015 06:40	1	TAL NSH	EML
P:5030B	490-75790-B-7	DL	490-240980		04/14/2015 07:08	10	TAL NSH	EML
A:8260B	490-75790-B-7	DL	490-240980		04/14/2015 07:08	10	TAL NSH	EML
P:3510C	490-75790-D-7-A		490-241134	490-239249	04/06/2015 13:34	10	TAL NSH	ET
A:8082A	490-75790-D-7-A		490-241134	490-239249	04/15/2015 10:52	10	TAL NSH	MGH

Lab ID: 490-75790-8 **Client ID: SWMW-5-GW-HS-040215**

Sample Date/Time: 04/02/2015 12:45 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-B-8		490-240982		04/14/2015 05:41	1	TAL NSH	EML
A:8260B	490-75790-B-8		490-240982		04/14/2015 05:41	1	TAL NSH	EML
P:3510C	490-75790-D-8-A		490-241134	490-239249	04/06/2015 13:34	1	TAL NSH	ET
A:8082A	490-75790-D-8-A		490-241134	490-239249	04/15/2015 00:44	1	TAL NSH	MGH

Lab ID: 490-75790-8 MS **Client ID: SWMW-5-GW-HS-040215**

Sample Date/Time: 04/02/2015 12:45 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-C-8 MS		490-240982		04/14/2015 09:41	1	TAL NSH	EML
A:8260B	490-75790-C-8 MS		490-240982		04/14/2015 09:41	1	TAL NSH	EML

Lab ID: 490-75790-8 MSD **Client ID: SWMW-5-GW-HS-040215**

Sample Date/Time: 04/02/2015 12:45 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-C-8 MSD		490-240982		04/14/2015 10:07	1	TAL NSH	EML
A:8260B	490-75790-C-8 MSD		490-240982		04/14/2015 10:07	1	TAL NSH	EML

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Laboratory Chronicle

Lab ID: 490-75790-9 **Client ID: SAMW-2-GW-HS-040215**

Sample Date/Time: 04/02/2015 14:00 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-B-9		490-240982		04/14/2015 06:08	1	TAL NSH	EML
A:8260B	490-75790-B-9		490-240982		04/14/2015 06:08	1	TAL NSH	EML

Lab ID: 490-75790-10 **Client ID: SBMW-5-GW-HS-040215**

Sample Date/Time: 04/02/2015 14:45 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-B-10		490-240982		04/14/2015 07:28	1	TAL NSH	EML
A:8260B	490-75790-B-10		490-240982		04/14/2015 07:28	1	TAL NSH	EML
P:5030B	490-75790-B-10	DL	490-240982		04/14/2015 08:48	20	TAL NSH	EML
A:8260B	490-75790-B-10	DL	490-240982		04/14/2015 08:48	20	TAL NSH	EML
P:3510C	490-75790-D-10-A		490-241134	490-239249	04/06/2015 13:34	5	TAL NSH	ET
A:8082A	490-75790-D-10-A		490-241134	490-239249	04/15/2015 11:08	5	TAL NSH	MGH

Lab ID: 490-75790-11 **Client ID: SBMW-5-GW-HS-040215-FD**

Sample Date/Time: 04/02/2015 14:50 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-B-11		490-240982		04/14/2015 07:54	1	TAL NSH	EML
A:8260B	490-75790-B-11		490-240982		04/14/2015 07:54	1	TAL NSH	EML
P:5030B	490-75790-B-11	DL	490-240982		04/14/2015 09:14	20	TAL NSH	EML
A:8260B	490-75790-B-11	DL	490-240982		04/14/2015 09:14	20	TAL NSH	EML
P:3510C	490-75790-D-11-A		490-241134	490-239249	04/06/2015 13:34	5	TAL NSH	ET
A:8082A	490-75790-D-11-A		490-241134	490-239249	04/15/2015 11:23	5	TAL NSH	MGH

Lab ID: 490-75790-12 **Client ID: SBMW-3-GW-HS-040215**

Sample Date/Time: 04/02/2015 15:00 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-B-12		490-240982		04/14/2015 06:35	1	TAL NSH	EML
A:8260B	490-75790-B-12		490-240982		04/14/2015 06:35	1	TAL NSH	EML

Lab ID: 490-75790-13 **Client ID: SBMW-7-GW-HS-040215**

Sample Date/Time: 04/02/2015 15:20 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-B-13		490-240982		04/14/2015 07:01	1	TAL NSH	EML
A:8260B	490-75790-B-13		490-240982		04/14/2015 07:01	1	TAL NSH	EML

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Laboratory Chronicle

Lab ID: 490-75790-14 **Client ID: SWMW-6-GW-HS-040215**

Sample Date/Time: 04/02/2015 16:30 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-B-14		490-240821		04/13/2015 20:13	1	TAL NSH	EML
A:8260B	490-75790-B-14		490-240821		04/13/2015 20:13	1	TAL NSH	EML
P:5030B	490-75790-B-14	DL	490-240821		04/13/2015 20:42	5	TAL NSH	EML
A:8260B	490-75790-B-14	DL	490-240821		04/13/2015 20:42	5	TAL NSH	EML
P:3510C	490-75790-E-14-A		490-241134	490-239249	04/06/2015 13:34	1	TAL NSH	ET
A:8082A	490-75790-E-14-A		490-241134	490-239249	04/15/2015 01:31	1	TAL NSH	MGH

Lab ID: 490-75790-15 **Client ID: SPMW-5-GW-HS-040215**

Sample Date/Time: 04/02/2015 08:55 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-A-15		490-240523		04/11/2015 03:09	1	TAL NSH	EML
A:8260B	490-75790-A-15		490-240523		04/11/2015 03:09	1	TAL NSH	EML

Lab ID: 490-75790-16 **Client ID: SPMW-6-GW-HS-040215**

Sample Date/Time: 04/02/2015 09:16 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-A-16		490-240523		04/11/2015 03:36	1	TAL NSH	EML
A:8260B	490-75790-A-16		490-240523		04/11/2015 03:36	1	TAL NSH	EML

Lab ID: 490-75790-17 **Client ID: SPMW-9-GW-HS-040215**

Sample Date/Time: 04/02/2015 09:10 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-A-17		490-240523		04/11/2015 04:02	1	TAL NSH	EML
A:8260B	490-75790-A-17		490-240523		04/11/2015 04:02	1	TAL NSH	EML

Lab ID: 490-75790-18 **Client ID: BRMW-09-GW-HS-040215**

Sample Date/Time: 04/02/2015 14:55 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-B-18		490-240926		04/13/2015 18:08	1	TAL NSH	EML
A:8260B	490-75790-B-18		490-240926		04/13/2015 18:08	1	TAL NSH	EML

Client: CH2M Hill, Inc. Job Number: 490-75790-1

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Lab ID: 490-75790-18 **Client ID:** BRMW-09-GW-HS-040215

Sample Date/Time: 04/02/2015 14:55 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-B-18 MS		490-240926		04/14/2015 01:42	1	TAL NSH	EML
A:8260B	490-75790-B-18 MS		490-240926		04/14/2015 01:42	1	TAL NSH	EML

Lab ID: 490-75790-18 **Client ID:** BRMW-09-GW-HS-040215

Sample Date/Time: 04/02/2015 14:55 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-B-18 MSD		490-240926		04/14/2015 02:09	1	TAL NSH	EML
A:8260B	490-75790-B-18 MSD		490-240926		04/14/2015 02:09	1	TAL NSH	EML

Lab ID: 490-75790-19 **Client ID:** BRMW-08-GW-HS-040215

Sample Date/Time: 04/02/2015 15:35 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-A-19		490-240523		04/11/2015 04:29	1	TAL NSH	EML
A:8260B	490-75790-A-19		490-240523		04/11/2015 04:29	1	TAL NSH	EML

Lab ID: 490-75790-20 **Client ID:** BRMW-03-GW-HS-040215

Sample Date/Time: 04/02/2015 15:50 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-A-20		490-240523		04/11/2015 04:55	1	TAL NSH	EML
A:8260B	490-75790-A-20		490-240523		04/11/2015 04:55	1	TAL NSH	EML

Lab ID: 490-75790-21 **Client ID:** BRMW-03A-GW-HS-040215

Sample Date/Time: 04/02/2015 15:55 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-A-21		490-240523		04/11/2015 05:22	1	TAL NSH	EML
A:8260B	490-75790-A-21		490-240523		04/11/2015 05:22	1	TAL NSH	EML

Lab ID: 490-75790-22 **Client ID:** BRMW-14-GW-HS-040215

Sample Date/Time: 04/02/2015 16:05 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-A-22		490-240523		04/11/2015 05:48	1	TAL NSH	EML
A:8260B	490-75790-A-22		490-240523		04/11/2015 05:48	1	TAL NSH	EML

Client: CH2M Hill, Inc. Job Number: 490-75790-1

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Lab ID: 490-75790-23 **Client ID: BRMW-14A-GW-HS-040215**

Sample Date/Time: 04/02/2015 16:15 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-A-23		490-240523		04/11/2015 06:15	1	TAL NSH	EML
A:8260B	490-75790-A-23		490-240523		04/11/2015 06:15	1	TAL NSH	EML

Lab ID: 490-75790-24 **Client ID: BRMW-12A-GW-HS-040215**

Sample Date/Time: 04/02/2015 16:25 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-A-24		490-240523		04/11/2015 06:41	1	TAL NSH	EML
A:8260B	490-75790-A-24		490-240523		04/11/2015 06:41	1	TAL NSH	EML

Lab ID: 490-75790-25 **Client ID: BRMW-02-GW-HS-040215**

Sample Date/Time: 04/02/2015 16:40 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-A-25		490-240523		04/11/2015 07:07	1	TAL NSH	EML
A:8260B	490-75790-A-25		490-240523		04/11/2015 07:07	1	TAL NSH	EML

Lab ID: 490-75790-26 **Client ID: BRMW-02A-GW-HS-040215**

Sample Date/Time: 04/02/2015 16:45 Received Date/Time: 04/03/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75790-A-26		490-240523		04/11/2015 07:34	1	TAL NSH	EML
A:8260B	490-75790-A-26		490-240523		04/11/2015 07:34	1	TAL NSH	EML

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 490-240523/6		490-240523		04/11/2015 01:51	1	TAL NSH	EML
A:8260B	MB 490-240523/6		490-240523		04/11/2015 01:51	1	TAL NSH	EML
P:5030B	MB 490-240821/7		490-240821		04/13/2015 13:06	1	TAL NSH	EML
A:8260B	MB 490-240821/7		490-240821		04/13/2015 13:06	1	TAL NSH	EML
P:5030B	MB 490-240926/7		490-240926		04/13/2015 17:15	1	TAL NSH	EML
A:8260B	MB 490-240926/7		490-240926		04/13/2015 17:15	1	TAL NSH	EML
P:5030B	MB 490-240980/7		490-240980		04/14/2015 00:58	1	TAL NSH	EML
A:8260B	MB 490-240980/7		490-240980		04/14/2015 00:58	1	TAL NSH	EML
P:5030B	MB 490-240982/7		490-240982		04/14/2015 05:15	1	TAL NSH	EML
A:8260B	MB 490-240982/7		490-240982		04/14/2015 05:15	1	TAL NSH	EML
P:3510C	MB 490-239249/1-A		490-241134	490-239249	04/06/2015 13:34	1	TAL NSH	ET
A:8082A	MB 490-239249/1-A		490-241134	490-239249	04/14/2015 22:39	1	TAL NSH	MGH

Client: CH2M Hill, Inc. Job Number: 490-75790-1

Laboratory Chronicle

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 490-240523/3		490-240523		04/11/2015 00:32	1	TAL NSH	EML
A:8260B	LCS 490-240523/3		490-240523		04/11/2015 00:32	1	TAL NSH	EML
P:5030B	LCS 490-240821/3		490-240821		04/13/2015 11:12	1	TAL NSH	EML
A:8260B	LCS 490-240821/3		490-240821		04/13/2015 11:12	1	TAL NSH	EML
P:5030B	LCS 490-240926/4		490-240926		04/13/2015 15:55	1	TAL NSH	EML
A:8260B	LCS 490-240926/4		490-240926		04/13/2015 15:55	1	TAL NSH	EML
P:5030B	LCS 490-240980/3		490-240980		04/13/2015 23:04	1	TAL NSH	EML
A:8260B	LCS 490-240980/3		490-240980		04/13/2015 23:04	1	TAL NSH	EML
P:5030B	LCS 490-240982/3		490-240982		04/14/2015 03:29	1	TAL NSH	EML
A:8260B	LCS 490-240982/3		490-240982		04/14/2015 03:29	1	TAL NSH	EML
P:3510C	LCS 490-239249/2-A		490-241134	490-239249	04/06/2015 13:34	1	TAL NSH	ET
A:8082A	LCS 490-239249/2-A		490-241134	490-239249	04/14/2015 22:55	1	TAL NSH	MGH

Lab ID: LCSD **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 490-240821/4		490-240821		04/13/2015 11:41	1	TAL NSH	EML
A:8260B	LCSD 490-240821/4		490-240821		04/13/2015 11:41	1	TAL NSH	EML
P:5030B	LCSD 490-240980/4		490-240980		04/13/2015 23:32	1	TAL NSH	EML
A:8260B	LCSD 490-240980/4		490-240980		04/13/2015 23:32	1	TAL NSH	EML
P:5030B	LCSD 490-240982/4		490-240982		04/14/2015 03:55	1	TAL NSH	EML
A:8260B	LCSD 490-240982/4		490-240982		04/14/2015 03:55	1	TAL NSH	EML

Lab References:
TAL NSH = TestAmerica Nashville

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
OP_H2SO4_00013	07/11/18		Macron, Lot 0000053267		(Purchased Reagent)		Sulfuric acid	51 % by Wt
OP_Hexane_00057	08/13/18		Macron, Lot 0000078259		(Purchased Reagent)		Hexane	0 mg/mL
OP_MeCl2_00044	03/22/16		J.T. Baker, Lot 0000100523		(Purchased Reagent)		Methylene Chloride	0 %
OP_NaSO4_00035	10/03/18		J.T. Baker, Lot 0000088217		(Purchased Reagent)		Stock Chemical	0 %
OP_PCB_SPK_00027	09/14/15	03/14/15	ACETONE, Lot OP_ACETONE_CY_00016	200 mL	PCB_1660 _VER_00009	1 mL	PCB-1016	5 ug/mL
							PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
.PCB_1660 _VER_00009	06/30/19		restek, Lot A094336		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
OP_PPCB_SUR_00032	09/30/15	03/30/15	ACETONE, Lot OP_acetone_CY_00010	1000 mL	PEST_SUR_00024	2.5 mL	DCB Decachlorobiphenyl (Surr)	0.5 ug/mL
							Tetrachloro-m-xylene	0.5 ug/mL
.PEST_SUR_00024	11/30/20		Restek, Lot A0105135		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
PCB_1248_IMD_00013	09/23/15	03/23/15	Hexane, Lot OP_HEXANE_00061	10 mL	PCB_1248_00008	100 uL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
.PCB_1248_00008	04/30/19		restek, Lot A092864		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
PCB_1248_IMD_00013	09/23/15	03/23/15	Hexane, Lot OP_HEXANE_00061	10 mL	PCB_1248_00008	100 uL	PCB-1248	10 ug/mL
.PCB_1248_00008	04/30/19		restek, Lot A092864		(Purchased Reagent)		PCB-1248	1000 ug/mL
PCB_1660_IMD_00035	09/23/15	03/23/15	Hexane, Lot OP_HEXANE_00061	10 mL	PCB_1660_00003	100 uL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
					PEST_SUR_00022	50 uL	DCB Decachlorobiphenyl (Surr)	1 ug/mL
							Tetrachloro-m-xylene	1 ug/mL
.PCB_1660_00003	06/30/19		restek, Lot A094177		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.PEST_SUR_00022	11/30/20		Restek, Lot A0105135		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
PCB_1660_IMD_00036	09/23/15	03/23/15	Hexane, Lot OP_HEXANE_00061	10 mL	PCB_1660_00006	100 uL	PCB-1016	10 ug/mL
							PCB-1260	10 ug/mL
					PEST_SUR_00022	50 uL	DCB Decachlorobiphenyl (Surr)	1 ug/mL
							Tetrachloro-m-xylene	1 ug/mL
.PCB_1660_00006	06/30/19		restek, Lot A094177		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
.PEST_SUR_00022	11/30/20		Restek, Lot A0105135		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
PCB_1660V_IMD_00011	07/09/15	01/09/15	Hexane, Lot OP_HEXANE_00059	10 mL	PCB_1660 _VER_00009	100 uL	PCB-1016	10 ug/mL
							PCB-1260	10 ug/mL
.PCB_1660 _VER_00009	06/30/19		restek, Lot A094336		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
PCB_2154_IMD_00002	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1221_00004	100 uL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					PCB_1254_00007	100 uL	PCB-1254 Peak 1	10 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
.PCB_1221_00004	12/31/18		restek, Lot A090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
.PCB_1254_00007	02/28/19		restek, Lot A092005		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
PCB_2154_IMD_00002	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1221_00004	100 uL	PCB-1221	10 ug/mL
					PCB_1254_00007	100 uL	PCB-1254	10 ug/mL
.PCB_1221_00004	12/31/18		restek, Lot A090667		(Purchased Reagent)		PCB-1221	1000 ug/mL
.PCB_1254_00007	02/28/19		restek, Lot A092005		(Purchased Reagent)		PCB-1254	1000 ug/mL
PCB_3262_IMD_00004	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1232_00004	100 uL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
					PCB_1262_00005	100 uL	PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
.PCB_1232_00004	11/30/18		restek, Lot A090290		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
.PCB_1262_00005	06/30/19		restek, Lot A094073		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
PCB_3262_IMD_00004	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1232_00004	100 uL	PCB-1232	10 ug/mL
.PCB_1232_00004	11/30/18		restek, Lot A090290		(Purchased Reagent)		PCB-1232	1000 ug/mL
PCB_4268_IMD_00002	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1242_00009	100 uL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
					PCB_1268_00007	100 uL	PCB-1268 Peak 1	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1268 Peak 2	10 ug/mL
							PCB-1268 Peak 3	10 ug/mL
							PCB-1268 Peak 4	10 ug/mL
							PCB-1268 Peak 5	10 ug/mL
.PCB_1242_00009	11/30/18		restek, Lot A090182		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
.PCB_1268_00007	01/31/19		restek, Lot A091582		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
PCB_4268_IMD_00002	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1242_00009	100 uL	PCB-1242	10 ug/mL
.PCB_1242_00009	11/30/18		restek, Lot A090182		(Purchased Reagent)		PCB-1242	1000 ug/mL
PCB_Cu_GRAN_00004	06/10/19		Resprep, Lot 212201-AW		(Purchased Reagent)		Cu	1000000 ug/mL
PCB_IS_Int_00006	09/24/15	03/24/15	Hexane, Lot OP_Hexane_00061	5 mL	PCB_1-Bromo_00001	0.5 mL	1-Bromo-2-nitrobenzene	100 ug/mL
.PCB_1-Bromo_00001	03/31/18		Restek, Lot A0107658		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
V1_gases_I_00093	03/16/15	03/09/15	Methanol, Lot 0000062345	25 mL	V1_Gases_00008	1.25 mL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V1_Gases_00008	09/30/16		Restek, Lot A0105755		(Purchased Reagent)		Bromomethane	2000000 ug/L
							Butadiene	2000000 ug/L
							Chloroethane	2000000 ug/L
							Chloromethane	2000000 ug/L
							Dichlorodifluoromethane	2000000 ug/L
							Dichlorofluoromethane	2000000 ug/L
							Trichlorofluoromethane	2000000 ug/L
							Vinyl chloride	2000000 ug/L
V1_gases_I_00096	04/08/15	04/01/15	Methanol, Lot 0000062345	25 mL	V1_Gases_00009	1 mL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.V1_Gases_00009	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500000 ug/L
							Butadiene	2500000 ug/L
							Chloroethane	2500000 ug/L
							Chloromethane	2500000 ug/L
							Dichlorodifluoromethane	2500000 ug/L
							Dichlorofluoromethane	2500000 ug/L
							Trichlorofluoromethane	2500000 ug/L
							Vinyl chloride	2500000 ug/L
V1_gases_I_00098	04/16/15	04/09/15	Methanol, Lot 0000085233	25 mL	V1_Gases_00009	1.25 mL	Vinyl chloride	125 ug/mL
.V1_Gases_00009	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Vinyl chloride	2500000 ug/L
V1_Mega_I_00033	03/19/15	02/19/15	Methanol, Lot 0000049909	50 mL	V1_2-CEVE_00005	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					V1_AcroleinHi_00005	0.625 mL	Acrolein	250 ug/mL
					V1_Additions_00010	2.5 mL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1-Chlorohexane	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Benzyl chloride	100 ug/mL
							Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Methacrylonitrile	1000 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butanol	2500 ug/mL
							n-Butyl acetate	100 ug/mL
					V1_cyclohxnon_00009	2.5 mL	Cyclohexanone	1000 ug/mL
					V1_Megamix_00012	2.5 mL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	1000 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					V1_Polar addi_00004	2.5 mL	Acetonitrile	1000 ug/mL
							Ethanol	5000 ug/mL
							Isopropyl ether	100 ug/mL
							Propionitrile	1000 ug/mL
							t-Amyl alcohol	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
					V1_vnl acetat_00010	2.5 mL	Vinyl acetate	200 ug/mL
					V2_Keytones_00005	2.5 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.V1_2-CEVE_00005	02/28/16		Restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000000 ug/L
.V1_AcroleinHi_00005	02/28/15		Restek, Lot A0106504		(Purchased Reagent)		Acrolein	20000000 ug/L
.V1_Additions_00010	09/30/15		Restek, Lot A0101694		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000000 ug/L
							1,3,5-Trichlorobenzene	2000000 ug/L
							1-Chlorohexane	2000000 ug/L
							2-Chloro-1,3-butadiene	2000000 ug/L
							2-Nitropropane	4000000 ug/L
							Benzyl chloride	2000000 ug/L
							Ethyl acetate	4000000 ug/L
							Ethyl acrylate	2000000 ug/L
							Isopropyl alcohol	20000000 ug/L
							Methacrylonitrile	20000000 ug/L
							Methyl methacrylate	4000000 ug/L
							n-Butanol	50000000 ug/L
							n-Butyl acetate	2000000 ug/L
.V1_cyclohxnon_00009	02/28/17		Restek, Lot A0101574		(Purchased Reagent)		Cyclohexanone	20000000 ug/L
.V1_Megamix_00012	02/28/16		Restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000000 ug/L
							1,1,1-Trichloroethane	2000000 ug/L
							1,1,2,2-Tetrachloroethane	2000000 ug/L
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000000 ug/L
							1,1,2-Trichloroethane	2000000 ug/L
							1,1-Dichloroethane	2000000 ug/L
							1,1-Dichloroethene	2000000 ug/L
							1,1-Dichloropropene	2000000 ug/L
							1,2,3-Trichlorobenzene	2000000 ug/L
							1,2,3-Trichloropropane	2000000 ug/L
							1,2,4-Trichlorobenzene	2000000 ug/L
							1,2,4-Trimethylbenzene	2000000 ug/L
							1,2-Dibromo-3-Chloropropane	2000000 ug/L
							1,2-Dichlorobenzene	2000000 ug/L
							1,2-Dichloroethane	2000000 ug/L

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	2000000 ug/L
							1,3,5-Trimethylbenzene	2000000 ug/L
							1,3-Dichlorobenzene	2000000 ug/L
							1,3-Dichloropropane	2000000 ug/L
							1,4-Dichlorobenzene	2000000 ug/L
							1,4-Dioxane	40000000 ug/L
							2,2-Dichloropropane	2000000 ug/L
							2-Chlorotoluene	2000000 ug/L
							2-Methyl-2-propanol	20000000 ug/L
							3-Chloro-1-propene	2000000 ug/L
							4-Chlorotoluene	2000000 ug/L
							4-Isopropyltoluene	2000000 ug/L
							Acrylonitrile	20000000 ug/L
							Benzene	2000000 ug/L
							Bromobenzene	2000000 ug/L
							Bromoform	2000000 ug/L
							Carbon disulfide	2000000 ug/L
							Carbon tetrachloride	2000000 ug/L
							Chlorobenzene	2000000 ug/L
							Chlorobromomethane	2000000 ug/L
							Chlorodibromomethane	2000000 ug/L
							Chloroform	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							cis-1,3-Dichloropropene	2000000 ug/L
							Cyclohexane	2000000 ug/L
							Dibromomethane	2000000 ug/L
							Dichlorobromomethane	2000000 ug/L
							Ethyl ether	2000000 ug/L
							Ethyl methacrylate	2000000 ug/L
							Ethylbenzene	2000000 ug/L
							Ethylene Dibromide	2000000 ug/L
							Hexachlorobutadiene	2000000 ug/L
							Hexane	2000000 ug/L
							Iodomethane	2000000 ug/L
							Isobutyl alcohol	20000000 ug/L
							Isopropylbenzene	2000000 ug/L
							m-Xylene & p-Xylene	2000000 ug/L
							Methyl acetate	10000000 ug/L
							Methyl tert-butyl ether	2000000 ug/L
							Methylcyclohexane	2000000 ug/L
							Methylene Chloride	2000000 ug/L
							n-Butylbenzene	2000000 ug/L
							n-Heptane	2000000 ug/L
							N-Propylbenzene	2000000 ug/L
							Naphthalene	2000000 ug/L
							o-Xylene	2000000 ug/L
							sec-Butylbenzene	2000000 ug/L
							Styrene	2000000 ug/L

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							Tetrahydrofuran	4000000 ug/L
							Toluene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							trans-1,3-Dichloropropene	2000000 ug/L
							trans-1,4-Dichloro-2-butene	2000000 ug/L
							Trichloroethene	2000000 ug/L
.V1_Polar addi_00004	05/31/16		Restek, Lot A0103696		(Purchased Reagent)		Acetonitrile	20000000 ug/L
							Ethanol	100000000 ug/L
							Isopropyl ether	2000000 ug/L
							Propionitrile	20000000 ug/L
							t-Amyl alcohol	20000000 ug/L
							Tert-amyl methyl ether	2000000 ug/L
							Tert-butyl ethyl ether	2000000 ug/L
.V1_vnl acetat_00010	05/31/15		Restek, Lot A0107309		(Purchased Reagent)		Vinyl acetate	4000000 ug/L
.V2_Keytones_00005	12/31/17		Restek, Lot A0107509		(Purchased Reagent)		2-Butanone (MEK)	10000000 ug/L
							2-Hexanone	10000000 ug/L
							4-Methyl-2-pentanone (MIBK)	10000000 ug/L
							Acetone	10000000 ug/L
V1_Mega_I_00034	04/20/15	03/20/15	Methanol, Lot 0000049909	50 mL	V1_2-CEVE_00006	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					V1_AcroleinHi_00006	0.625 mL	Acrolein	250 ug/mL
					V1_Additions_00011	2 mL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1-Chlorohexane	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Benzyl chloride	100 ug/mL
							Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Methacrylonitrile	1000 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butanol	2500 ug/mL
							n-Butyl acetate	100 ug/mL
					V1_cyclohxnon_00010	2 mL	Cyclohexanone	1000 ug/mL
					V1_Keytones_00008	2 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					V1_Megamix_00013	2 mL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	500 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					V1_Polar addi_00005	2 mL	Acetonitrile	1000 ug/mL
							Ethanol	4000 ug/mL
							Isopropyl ether	100 ug/mL
							Propionitrile	1000 ug/mL
							t-Amyl alcohol	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
					V1_vnl acetat_00011	2 mL	Vinyl acetate	200 ug/mL
.V1_2-CEVE_00006	01/31/18		Restek, Lot A0108172		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500000 ug/L
.V1_AcroleinHi_00006	05/31/15		Restek, Lot A0108734		(Purchased Reagent)		Acrolein	20000000 ug/L
.V1_Additions_00011	07/31/15		Restek, Lot A0108219		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500000 ug/L
							1,3,5-Trichlorobenzene	2500000 ug/L
							1-Chlorohexane	2500000 ug/L
							2-Chloro-1,3-butadiene	2500000 ug/L
							2-Nitropropane	5000000 ug/L
							Benzyl chloride	2500000 ug/L
							Ethyl acetate	5000000 ug/L
							Ethyl acrylate	2500000 ug/L
							Isopropyl alcohol	25000000 ug/L
							Methacrylonitrile	25000000 ug/L
							Methyl methacrylate	5000000 ug/L
							n-Butanol	62500000 ug/L
							n-Butyl acetate	2500000 ug/L
.V1_cyclohxnon_00010	01/31/18		Restek, Lot A0108235		(Purchased Reagent)		Cyclohexanone	25000000 ug/L
.V1_Keytones_00008	01/31/18		Restek, Lot A01081051		(Purchased Reagent)		2-Butanone (MEK)	12500000 ug/L
							2-Hexanone	12500000 ug/L
							4-Methyl-2-pentanone (MIBK)	12500000 ug/L
							Acetone	12500000 ug/L
.V1_Megamix_00013	01/31/17		Restek, Lot A0108166		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500000 ug/L
							1,1,1-Trichloroethane	2500000 ug/L

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	2500000 ug/L
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500000 ug/L
							1,1,2-Trichloroethane	2500000 ug/L
							1,1-Dichloroethane	2500000 ug/L
							1,1-Dichloroethene	2500000 ug/L
							1,1-Dichloropropene	2500000 ug/L
							1,2,3-Trichlorobenzene	2500000 ug/L
							1,2,3-Trichloropropane	2500000 ug/L
							1,2,4-Trichlorobenzene	2500000 ug/L
							1,2,4-Trimethylbenzene	2500000 ug/L
							1,2-Dibromo-3-Chloropropane	2500000 ug/L
							1,2-Dichlorobenzene	2500000 ug/L
							1,2-Dichloroethane	2500000 ug/L
							1,2-Dichloropropane	2500000 ug/L
							1,3,5-Trimethylbenzene	2500000 ug/L
							1,3-Dichlorobenzene	2500000 ug/L
							1,3-Dichloropropane	2500000 ug/L
							1,4-Dichlorobenzene	2500000 ug/L
							1,4-Dioxane	50000000 ug/L
							2,2-Dichloropropane	2500000 ug/L
							2-Chlorotoluene	2500000 ug/L
							2-Methyl-2-propanol	25000000 ug/L
							3-Chloro-1-propene	2500000 ug/L
							4-Chlorotoluene	2500000 ug/L
							4-Isopropyltoluene	2500000 ug/L
							Acrylonitrile	25000000 ug/L
							Benzene	2500000 ug/L
							Bromobenzene	2500000 ug/L
							Bromoform	2500000 ug/L
							Carbon disulfide	2500000 ug/L
							Carbon tetrachloride	2500000 ug/L
							Chlorobenzene	2500000 ug/L
							Chlorobromomethane	2500000 ug/L
							Chlorodibromomethane	2500000 ug/L
							Chloroform	2500000 ug/L
							cis-1,2-Dichloroethene	2500000 ug/L
							cis-1,3-Dichloropropene	2500000 ug/L
							Cyclohexane	2500000 ug/L
							Dibromomethane	2500000 ug/L
							Dichlorobromomethane	2500000 ug/L
							Ethyl ether	2500000 ug/L
							Ethyl methacrylate	2500000 ug/L
							Ethylbenzene	2500000 ug/L
							Ethylene Dibromide	2500000 ug/L
							Hexachlorobutadiene	2500000 ug/L
							Hexane	2500000 ug/L
							Iodomethane	2500000 ug/L

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isobutyl alcohol	62500000 ug/L
							Isopropylbenzene	2500000 ug/L
							m-Xylene & p-Xylene	2500000 ug/L
							Methyl acetate	12500000 ug/L
							Methyl tert-butyl ether	2500000 ug/L
							Methylcyclohexane	2500000 ug/L
							Methylene Chloride	2500000 ug/L
							n-Butylbenzene	2500000 ug/L
							n-Heptane	2500000 ug/L
							N-Propylbenzene	2500000 ug/L
							Naphthalene	2500000 ug/L
							o-Xylene	2500000 ug/L
							sec-Butylbenzene	2500000 ug/L
							Styrene	2500000 ug/L
							tert-Butylbenzene	2500000 ug/L
							Tetrachloroethene	2500000 ug/L
							Tetrahydrofuran	5000000 ug/L
							Toluene	2500000 ug/L
							trans-1,2-Dichloroethene	2500000 ug/L
							trans-1,3-Dichloropropene	2500000 ug/L
							trans-1,4-Dichloro-2-butene	2500000 ug/L
							Trichloroethene	2500000 ug/L
.V1_Polar addi_00005	01/31/17		Restek, Lot A0108216		(Purchased Reagent)		Acetonitrile	25000000 ug/L
							Ethanol	100000000 ug/L
							Isopropyl ether	2500000 ug/L
							Propionitrile	25000000 ug/L
							t-Amyl alcohol	25000000 ug/L
							Tert-amyl methyl ether	2500000 ug/L
							Tert-butyl ethyl ether	2500000 ug/L
.V1_vnl acetat_00011	07/31/15		Restek, Lot A0108225		(Purchased Reagent)		Vinyl acetate	5000000 ug/L
V2_gases_I_00072	03/16/15	03/09/15	Methanol, Lot 0000085233	25 mL	V2_Gases_00008	1.25 mL	Vinyl chloride	100 ug/mL
.V2_Gases_00008	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Vinyl chloride	2000000 ug/L
V2_gases_I_00074	04/08/15	04/01/15	Methanol, Lot 0000085233	25 mL	V2_Gases_00008	1.25 mL	Vinyl chloride	100 ug/mL
.V2_Gases_00008	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Vinyl chloride	2000000 ug/L
V2_Mega_I_00036	03/23/15	02/23/15	Methanol, Lot UST_Methanol_00030	10 mL	V2_Megamix_00008	0.5 mL	1,1-Dichloroethene	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							Trichloroethene	100 ug/mL
.V2_Megamix_00008	02/28/16		Restek, Lot A093733		(Purchased Reagent)		1,1-Dichloroethene	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	2000000 ug/L
V2_Mega_I_00038	04/27/15	03/27/15	Methanol, Lot UST_Methanol_00030	10 mL	V2_Megamix_00010	0.5 mL	1,1-Dichloroethene	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							Trichloroethene	100 ug/mL
.V2_Megamix_00010	02/28/16		Restek, Lot A093733		(Purchased Reagent)		1,1-Dichloroethene	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							Trichloroethene	2000000 ug/L
VOA_ISSS_50_W_00024	04/18/15	03/07/15	Methanol, Lot id_00037	50 mL	VOA_ISSS250_W_00019	10 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
							1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
.VOA_ISSS250_W_00019	09/06/15	03/07/15	Methanol, Lot UST_Methanol_00037	50 mL	V1_Surrogates_00002	5 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
					VOA_IS Mix_S_00006	5 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
..V1_Surrogates_00002	02/28/18		Restek, Lot A093505		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500000 ug/L
							4-Bromofluorobenzene (Surr)	2500000 ug/L
							Dibromofluoromethane (Surr)	2500000 ug/L
							Toluene-d8 (Surr)	2500000 ug/L
..VOA_IS Mix_S_00006	12/31/15		Ultra Scientific, Lot CK-3734		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500000 ug/L
							Chlorobenzene-d5	2500000 ug/L
							Fluorobenzene (IS)	2500000 ug/L

Certification Summary

Client: CH2M Hill, Inc.
Project/Site: Schlumberger Sangamo OU-1 GW 2015

TestAmerica Job ID: 490-75790-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	A2LA		NA: NELAP & A2LA
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	Alaska (UST)	State Program	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas DEQ	State Program	6	88-0737
TestAmerica Nashville	California	State Program	9	2938
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAP	4	E87358
TestAmerica Nashville	Illinois	NELAP	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAP	7	E-10229
TestAmerica Nashville	Kentucky (UST)	State Program	4	19
TestAmerica Nashville	Kentucky (WW)	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAP	6	30613
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAP	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana (UST)	State Program	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAP	1	2963
TestAmerica Nashville	New Jersey	NELAP	2	TN965
TestAmerica Nashville	New York	NELAP	2	11342
TestAmerica Nashville	North Carolina (WW/SW)	State Program	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio VAP	State Program	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAP	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAP	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009 (001)
TestAmerica Nashville	South Carolina (DW)	State Program	4	84009 (002)
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAP	6	T104704077
TestAmerica Nashville	USDA	Federal		S-48469
TestAmerica Nashville	Utah	NELAP	8	TN00032
TestAmerica Nashville	Virginia	NELAP	3	460152
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia DEP	State Program	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430
TestAmerica Nashville	Wyoming (UST)	A2LA	8	453.07

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
TB-02-040215	490-75790-1	97	95	103	98
SPMW-18-GW-HS-040215	490-75790-2	97	95	102	96
SPRW-205-GW-HS-040215	490-75790-3	96	109	102	98
SPRW-205-GW-HS-040215 DL	490-75790-3 DL	97	107	100	97
SPRW-204-GW-HS-040215	490-75790-4	94	95	102	95
SPRW-201-GW-HS-040215	490-75790-5	93	106	101	99
SPRW-201-GW-HS-040215 DL	490-75790-5 DL	95	109	102	97
SPRW-206-GW-HS-040215	490-75790-6	108	111	101	99
SPRW-206-GW-HS-040215 DL	490-75790-6 DL	97	108	102	101
SBMW-6-GW-HS-040215	490-75790-7	92	104	100	97
SBMW-6-GW-HS-040215 DL	490-75790-7 DL	92	104	102	98
SWMW-5-GW-HS-040215	490-75790-8	96	95	102	98
SAMW-2-GW-HS-040215	490-75790-9	95	95	104	99
SBMW-5-GW-HS-040215	490-75790-10	95	94	100	99
SBMW-5-GW-HS-040215 DL	490-75790-10 DL	95	95	102	98
SBMW-5-GW-HS-040215-FD	490-75790-11	95	94	101	102
SBMW-5-GW-HS-040215-FD DL	490-75790-11 DL	95	94	103	98
SBMW-3-GW-HS-040215	490-75790-12	96	96	103	101
SBMW-7-GW-HS-040215	490-75790-13	95	93	103	98
SWMW-6-GW-HS-040215	490-75790-14	101	109	101	99
SWMW-6-GW-HS-040215 DL	490-75790-14 DL	99	107	101	96
SPMW-5-GW-HS-040215	490-75790-15	94	100	98	107
SPMW-6-GW-HS-040215	490-75790-16	92	98	100	106
SPMW-9-GW-HS-040215	490-75790-17	97	101	101	106
BRMW-09-GW-HS-040215	490-75790-18	96	95	102	100

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
BRMW-08-GW-HS-040215	490-75790-19	97	100	100	106
BRMW-03-GW-HS-040215	490-75790-20	96	101	100	109
BRMW-03A-GW-HS-040215	490-75790-21	96	100	101	106
BRMW-14-GW-HS-040215	490-75790-22	98	102	100	104
BRMW-14A-GW-HS-040215	490-75790-23	95	101	100	105
BRMW-12A-GW-HS-040215	490-75790-24	94	100	100	105
BRMW-02-GW-HS-040215	490-75790-25	94	99	102	102
BRMW-02A-GW-HS-040215	490-75790-26	97	101	103	103
	MB 490-240523/6	96	103	98	103
	MB 490-240821/7	106	106	101	99
	MB 490-240926/7	96	95	100	98
	MB 490-240980/7	95	106	102	97
	MB 490-240982/7	96	94	101	100
	LCS 490-240523/3	93	97	99	111
	LCS 490-240821/3	99	98	104	101
	LCS 490-240926/4	94	90	100	102
	LCS 490-240980/3	89	100	103	100
	LCS 490-240982/3	93	90	101	103
	LCSD 490-240821/4	99	99	101	98
	LCSD 490-240980/4	102	101	101	98
	LCSD 490-240982/4	96	91	100	102
SWMW-5-GW-HS-040215 MS	490-75790-8 MS	94	91	100	100
BRMW-09-GW-HS-040215 MS	490-75790-18 MS	95	92	100	100
SWMW-5-GW-HS-040215 MSD	490-75790-8 MSD	93	88	101	102
BRMW-09-GW-HS-040215 MSD	490-75790-18 MSD	95	91	101	102

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041015-34.D

Lab ID: LCS 490-240523/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	48.85	98	76-125	
1,1-Dichloroethene	50.0	47.38	95	79-124	
Tetrachloroethene	50.0	42.46	85	80-126	
trans-1,2-Dichloroethene	50.0	50.82	102	79-126	
Trichloroethene	50.0	43.07	86	80-123	
Vinyl chloride	62.5	64.22	103	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041315-03.D

Lab ID: LCS 490-240821/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	44.52	89	76-125	
1,1-Dichloroethene	50.0	44.33	89	79-124	
Tetrachloroethene	50.0	54.33	109	80-126	
trans-1,2-Dichloroethene	50.0	43.06	86	79-126	
Trichloroethene	50.0	53.86	108	80-123	
Vinyl chloride	62.5	63.99	102	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041315-14.D

Lab ID: LCS 490-240926/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	52.40	105	76-125	
1,1-Dichloroethene	50.0	52.03	104	79-124	
Tetrachloroethene	50.0	47.11	94	80-126	
trans-1,2-Dichloroethene	50.0	55.06	110	79-126	
Trichloroethene	50.0	47.59	95	80-123	
Vinyl chloride	62.5	74.78	120	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041315-28.D

Lab ID: LCS 490-240980/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	42.56	85	76-125	
1,1-Dichloroethene	50.0	41.99	84	79-124	
Tetrachloroethene	50.0	50.93	102	80-126	
trans-1,2-Dichloroethene	50.0	41.52	83	79-126	
Trichloroethene	50.0	52.64	105	80-123	
Vinyl chloride	62.5	59.38	95	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041315-40.D

Lab ID: LCS 490-240982/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	49.75	99	76-125	
1,1-Dichloroethene	50.0	50.99	102	79-124	
Tetrachloroethene	50.0	46.40	93	80-126	
trans-1,2-Dichloroethene	50.0	52.81	106	79-126	
Trichloroethene	50.0	46.05	92	80-123	
Vinyl chloride	62.5	69.21	111	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041315-04.D

Lab ID: LCSD 490-240821/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	44.72	89	0	17	76-125	
1,1-Dichloroethene	50.0	44.28	89	0	17	79-124	
Tetrachloroethene	50.0	52.32	105	4	16	80-126	
trans-1,2-Dichloroethene	50.0	43.01	86	0	16	79-126	
Trichloroethene	50.0	53.26	107	1	17	80-123	
Vinyl chloride	62.5	62.74	100	2	17	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041315-29.D

Lab ID: LCSD 490-240980/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	41.88	84	2	17	76-125	
1,1-Dichloroethene	50.0	41.10	82	2	17	79-124	
Tetrachloroethene	50.0	49.52	99	3	16	80-126	
trans-1,2-Dichloroethene	50.0	40.41	81	3	16	79-126	
Trichloroethene	50.0	51.74	103	2	17	80-123	
Vinyl chloride	62.5	57.50	92	3	17	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041315-41.D

Lab ID: LCSD 490-240982/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	49.59	99	0	17	76-125	
1,1-Dichloroethene	50.0	50.73	101	1	17	79-124	
Tetrachloroethene	50.0	45.04	90	3	16	80-126	
trans-1,2-Dichloroethene	50.0	52.84	106	0	16	79-126	
Trichloroethene	50.0	46.93	94	2	17	80-123	
Vinyl chloride	62.5	69.21	111	0	17	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041315-54.D

Lab ID: 490-75790-8 MS Client ID: SWMW-5-GW-HS-040215 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	12.9	66.25	107	68-138	
1,1-Dichloroethene	50.0	1.48	56.16	109	70-142	
Tetrachloroethene	50.0	5.64	55.01	99	72-145	
trans-1,2-Dichloroethene	50.0	0.252 J	57.14	114	66-143	
Trichloroethene	50.0	11.7	60.15	97	73-144	
Vinyl chloride	62.5	2.57	86.31	134	56-129	*

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041315-36.D

Lab ID: 490-75790-18 MS Client ID: BRMW-09-GW-HS-040215 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	1.00 U	52.73	105	68-138	
1,1-Dichloroethene	50.0	1.00 U	55.01	110	70-142	
Tetrachloroethene	50.0	1.00 U	48.68	97	72-145	
trans-1,2-Dichloroethene	50.0	1.00 U	57.09	114	66-143	
Trichloroethene	50.0	1.00 U	48.80	98	73-144	
Vinyl chloride	62.5	1.00 U	76.35	122	56-129	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041315-55.D

Lab ID: 490-75790-8 MSD Client ID: SWMW-5-GW-HS-040215 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	60.52	95	9	17	68-138	
1,1-Dichloroethene	50.0	51.42	100	9	17	70-142	
Tetrachloroethene	50.0	50.23	89	9	16	72-145	
trans-1,2-Dichloroethene	50.0	51.91	103	10	16	66-143	
Trichloroethene	50.0	55.01	87	9	17	73-144	
Vinyl chloride	62.5	77.41	120	11	17	56-129	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041315-37.D

Lab ID: 490-75790-18 MSD Client ID: BRMW-09-GW-HS-040215 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	52.92	106	0	17	68-138	
1,1-Dichloroethene	50.0	55.52	111	1	17	70-142	
Tetrachloroethene	50.0	49.09	98	1	16	72-145	
trans-1,2-Dichloroethene	50.0	56.70	113	1	16	66-143	
Trichloroethene	50.0	48.58	97	0	17	73-144	
Vinyl chloride	62.5	76.23	122	0	17	56-129	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab File ID: 041015-37.D Lab Sample ID: MB 490-240523/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP32 Date Analyzed: 04/11/2015 01:51

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-240523/3	041015-34.D	04/11/2015 00:32
SPMW-5-GW-HS-040215	490-75790-15	041015-40.D	04/11/2015 03:09
SPMW-6-GW-HS-040215	490-75790-16	041015-41.D	04/11/2015 03:36
SPMW-9-GW-HS-040215	490-75790-17	041015-42.D	04/11/2015 04:02
BRMW-08-GW-HS-040215	490-75790-19	041015-43.D	04/11/2015 04:29
BRMW-03-GW-HS-040215	490-75790-20	041015-44.D	04/11/2015 04:55
BRMW-03A-GW-HS-040215	490-75790-21	041015-45.D	04/11/2015 05:22
BRMW-14-GW-HS-040215	490-75790-22	041015-46.D	04/11/2015 05:48
BRMW-14A-GW-HS-040215	490-75790-23	041015-47.D	04/11/2015 06:15
BRMW-12A-GW-HS-040215	490-75790-24	041015-48.D	04/11/2015 06:41
BRMW-02-GW-HS-040215	490-75790-25	041015-49.D	04/11/2015 07:07
BRMW-02A-GW-HS-040215	490-75790-26	041015-50.D	04/11/2015 07:34

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab File ID: 041315-07.D Lab Sample ID: MB 490-240821/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP25 Date Analyzed: 04/13/2015 13:06

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-240821/3	041315-03.D	04/13/2015 11:12
	LCSD 490-240821/4	041315-04.D	04/13/2015 11:41
SPRW-205-GW-HS-040215	490-75790-3	041315-18.D	04/13/2015 18:19
SPRW-205-GW-HS-040215 DL	490-75790-3 DL	041315-19.D	04/13/2015 18:47
SPRW-206-GW-HS-040215	490-75790-6	041315-20.D	04/13/2015 19:16
SPRW-206-GW-HS-040215 DL	490-75790-6 DL	041315-21.D	04/13/2015 19:44
SWMW-6-GW-HS-040215	490-75790-14	041315-22.D	04/13/2015 20:13
SWMW-6-GW-HS-040215 DL	490-75790-14 DL	041315-23.D	04/13/2015 20:42

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab File ID: 041315-17.D Lab Sample ID: MB 490-240926/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP32 Date Analyzed: 04/13/2015 17:15

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-240926/4	041315-14.D	04/13/2015 15:55
TB-02-040215	490-75790-1	041315-18.D	04/13/2015 17:42
BRMW-09-GW-HS-040215	490-75790-18	041315-19.D	04/13/2015 18:08
SPMW-18-GW-HS-040215	490-75790-2	041315-33.D	04/14/2015 00:22
SPRW-204-GW-HS-040215	490-75790-4	041315-34.D	04/14/2015 00:49
BRMW-09-GW-HS-040215 MS	490-75790-18 MS	041315-36.D	04/14/2015 01:42
BRMW-09-GW-HS-040215 MSD	490-75790-18 MSD	041315-37.D	04/14/2015 02:09

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab File ID: 041315-32.D Lab Sample ID: MB 490-240980/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP25 Date Analyzed: 04/14/2015 00:58

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-240980/3	041315-28.D	04/13/2015 23:04
	LCSD 490-240980/4	041315-29.D	04/13/2015 23:32
SBMW-6-GW-HS-040215	490-75790-7	041315-44.D	04/14/2015 06:40
SBMW-6-GW-HS-040215 DL	490-75790-7 DL	041315-45.D	04/14/2015 07:08
SPRW-201-GW-HS-040215	490-75790-5	041315-46.D	04/14/2015 07:37
SPRW-201-GW-HS-040215 DL	490-75790-5 DL	041315-48.D	04/14/2015 08:34

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab File ID: 041315-44.D Lab Sample ID: MB 490-240982/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP32 Date Analyzed: 04/14/2015 05:15

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-240982/3	041315-40.D	04/14/2015 03:29
	LCSD 490-240982/4	041315-41.D	04/14/2015 03:55
SWMW-5-GW-HS-040215	490-75790-8	041315-45.D	04/14/2015 05:41
SAMW-2-GW-HS-040215	490-75790-9	041315-46.D	04/14/2015 06:08
SBMW-3-GW-HS-040215	490-75790-12	041315-47.D	04/14/2015 06:35
SBMW-7-GW-HS-040215	490-75790-13	041315-48.D	04/14/2015 07:01
SBMW-5-GW-HS-040215	490-75790-10	041315-49.D	04/14/2015 07:28
SBMW-5-GW-HS-040215-FD	490-75790-11	041315-50.D	04/14/2015 07:54
SBMW-5-GW-HS-040215 DL	490-75790-10 DL	041315-52.D	04/14/2015 08:48
SBMW-5-GW-HS-040215-FD DL	490-75790-11 DL	041315-53.D	04/14/2015 09:14
SWMW-5-GW-HS-040215 MS	490-75790-8 MS	041315-54.D	04/14/2015 09:41
SWMW-5-GW-HS-040215 MSD	490-75790-8 MSD	041315-55.D	04/14/2015 10:07

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab File ID: 040115-04.D BFB Injection Date: 04/01/2015

Instrument ID: HP25 BFB Injection Time: 13:25

Analysis Batch No.: 238076

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.0	
75	30.0 - 60.0 % of mass 95	48.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.1	(0.1)1
174	50.0 - 120.00 % of mass 95	89.7	
175	5.0 - 9.0 % of mass 174	6.7	(7.4)1
176	95.0 - 101.0 % of mass 174	86.0	(95.8)1
177	5.0 - 9.0 % of mass 176	5.7	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD0005 490-238076/5	040115-05.D	04/01/2015	13:52
	STD001 490-238076/6	040115-06.D	04/01/2015	14:19
	STD002 490-238076/7	040115-07.D	04/01/2015	14:47
	STD010 490-238076/8	040115-08.D	04/01/2015	15:14
	STD020 490-238076/9	040115-09.D	04/01/2015	15:42
	ICIS 490-238076/10	040115-10.D	04/01/2015	16:09
	STD100 490-238076/11	040115-11.D	04/01/2015	16:37
	STD200 490-238076/12	040115-12.D	04/01/2015	17:04
	ICV 490-238076/15	040115-15.D	04/01/2015	18:26

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab File ID: 041315-01.D BFB Injection Date: 04/13/2015

Instrument ID: HP25 BFB Injection Time: 10:15

Analysis Batch No.: 240821

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.7	
75	30.0 - 60.0 % of mass 95	46.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.3	(0.3)1
174	50.0 - 120.00 % of mass 95	91.7	
175	5.0 - 9.0 % of mass 174	6.7	(7.4)1
176	95.0 - 101.0 % of mass 174	87.4	(95.3)1
177	5.0 - 9.0 % of mass 176	5.8	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-240821/2	041315-02.D	04/13/2015	10:44
	LCS 490-240821/3	041315-03.D	04/13/2015	11:12
	LCSD 490-240821/4	041315-04.D	04/13/2015	11:41
	MB 490-240821/7	041315-07.D	04/13/2015	13:06
SPRW-205-GW-HS-040215	490-75790-3	041315-18.D	04/13/2015	18:19
SPRW-205-GW-HS-040215 DL	490-75790-3 DL	041315-19.D	04/13/2015	18:47
SPRW-206-GW-HS-040215	490-75790-6	041315-20.D	04/13/2015	19:16
SPRW-206-GW-HS-040215 DL	490-75790-6 DL	041315-21.D	04/13/2015	19:44
SWMW-6-GW-HS-040215	490-75790-14	041315-22.D	04/13/2015	20:13
SWMW-6-GW-HS-040215 DL	490-75790-14 DL	041315-23.D	04/13/2015	20:42

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab File ID: 041315-26.D BFB Injection Date: 04/13/2015

Instrument ID: HP25 BFB Injection Time: 22:07

Analysis Batch No.: 240980

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.8	
75	30.0 - 60.0 % of mass 95	47.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	97.6	
175	5.0 - 9.0 % of mass 174	7.1	(7.3)1
176	95.0 - 101.0 % of mass 174	94.0	(96.4)1
177	5.0 - 9.0 % of mass 176	6.3	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-240980/2	041315-27.D	04/13/2015	22:35
	LCS 490-240980/3	041315-28.D	04/13/2015	23:04
	LCSD 490-240980/4	041315-29.D	04/13/2015	23:32
	MB 490-240980/7	041315-32.D	04/14/2015	00:58
SBMW-6-GW-HS-040215	490-75790-7	041315-44.D	04/14/2015	06:40
SBMW-6-GW-HS-040215 DL	490-75790-7 DL	041315-45.D	04/14/2015	07:08
SPRW-201-GW-HS-040215	490-75790-5	041315-46.D	04/14/2015	07:37
SPRW-201-GW-HS-040215 DL	490-75790-5 DL	041315-48.D	04/14/2015	08:34

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab File ID: 031315-01.D BFB Injection Date: 03/13/2015

Instrument ID: HP32 BFB Injection Time: 10:59

Analysis Batch No.: 233414

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	
75	30.0 - 60.0 % of mass 95	
95	Base Peak, 100% relative abundance	
96	5.0 - 9.0 % of mass 95	
173	Less than 2.0 % of mass 174	1
174	50.0 - 120.00 % of mass 95	
175	5.0 - 9.0 % of mass 174	1
176	95.0 - 101.0 % of mass 174	1
177	5.0 - 9.0 % of mass 176	2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD0005 490-233414/2	031315-02.D	03/13/2015	11:26
	STD001 490-233414/3	031315-03.D	03/13/2015	11:52
	STD002 490-233414/4	031315-04.D	03/13/2015	12:19
	STD010 490-233414/5	031315-05.D	03/13/2015	12:45
	STD020 490-233414/6	031315-06.D	03/13/2015	13:12
	ICIS 490-233414/7	031315-07.D	03/13/2015	13:38
	STD100 490-233414/8	031315-08.D	03/13/2015	14:05
	STD200 490-233414/9	031315-09.D	03/13/2015	14:31
	ICV 490-233414/12	031315-12.D	03/13/2015	15:50

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab File ID: 041015-32.D BFB Injection Date: 04/10/2015

Instrument ID: HP32 BFB Injection Time: 23:40

Analysis Batch No.: 240523

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.5	
75	30.0 - 60.0 % of mass 95	47.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	88.9	
175	5.0 - 9.0 % of mass 174	6.7	(7.5)1
176	95.0 - 101.0 % of mass 174	87.5	(98.3)1
177	5.0 - 9.0 % of mass 176	5.8	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-240523/2	041015-33.D	04/11/2015	00:06
	LCS 490-240523/3	041015-34.D	04/11/2015	00:32
	MB 490-240523/6	041015-37.D	04/11/2015	01:51
SPMW-5-GW-HS-040215	490-75790-15	041015-40.D	04/11/2015	03:09
SPMW-6-GW-HS-040215	490-75790-16	041015-41.D	04/11/2015	03:36
SPMW-9-GW-HS-040215	490-75790-17	041015-42.D	04/11/2015	04:02
BRMW-08-GW-HS-040215	490-75790-19	041015-43.D	04/11/2015	04:29
BRMW-03-GW-HS-040215	490-75790-20	041015-44.D	04/11/2015	04:55
BRMW-03A-GW-HS-040215	490-75790-21	041015-45.D	04/11/2015	05:22
BRMW-14-GW-HS-040215	490-75790-22	041015-46.D	04/11/2015	05:48
BRMW-14A-GW-HS-040215	490-75790-23	041015-47.D	04/11/2015	06:15
BRMW-12A-GW-HS-040215	490-75790-24	041015-48.D	04/11/2015	06:41
BRMW-02-GW-HS-040215	490-75790-25	041015-49.D	04/11/2015	07:07
BRMW-02A-GW-HS-040215	490-75790-26	041015-50.D	04/11/2015	07:34

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab File ID: 041315-11.D BFB Injection Date: 04/13/2015

Instrument ID: HP32 BFB Injection Time: 14:35

Analysis Batch No.: 240926

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.8	
75	30.0 - 60.0 % of mass 95	47.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	89.9	
175	5.0 - 9.0 % of mass 174	6.7	(7.5)1
176	95.0 - 101.0 % of mass 174	87.0	(96.8)1
177	5.0 - 9.0 % of mass 176	5.9	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-240926/2	041315-12.D	04/13/2015	15:01
	LCS 490-240926/4	041315-14.D	04/13/2015	15:55
	MB 490-240926/7	041315-17.D	04/13/2015	17:15
TB-02-040215	490-75790-1	041315-18.D	04/13/2015	17:42
BRMW-09-GW-HS-040215	490-75790-18	041315-19.D	04/13/2015	18:08
SPMW-18-GW-HS-040215	490-75790-2	041315-33.D	04/14/2015	00:22
SPRW-204-GW-HS-040215	490-75790-4	041315-34.D	04/14/2015	00:49
BRMW-09-GW-HS-040215 MS	490-75790-18 MS	041315-36.D	04/14/2015	01:42
BRMW-09-GW-HS-040215 MSD	490-75790-18 MSD	041315-37.D	04/14/2015	02:09

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab File ID: 041315-38.D BFB Injection Date: 04/14/2015

Instrument ID: HP32 BFB Injection Time: 02:35

Analysis Batch No.: 240982

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.6	
75	30.0 - 60.0 % of mass 95	47.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	95.3	
175	5.0 - 9.0 % of mass 174	7.0	(7.4)1
176	95.0 - 101.0 % of mass 174	91.5	(96.0)1
177	5.0 - 9.0 % of mass 176	6.2	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-240982/2	041315-39.D	04/14/2015	03:02
	LCS 490-240982/3	041315-40.D	04/14/2015	03:29
	LCSD 490-240982/4	041315-41.D	04/14/2015	03:55
	MB 490-240982/7	041315-44.D	04/14/2015	05:15
SWMW-5-GW-HS-040215	490-75790-8	041315-45.D	04/14/2015	05:41
SAMW-2-GW-HS-040215	490-75790-9	041315-46.D	04/14/2015	06:08
SBMW-3-GW-HS-040215	490-75790-12	041315-47.D	04/14/2015	06:35
SBMW-7-GW-HS-040215	490-75790-13	041315-48.D	04/14/2015	07:01
SBMW-5-GW-HS-040215	490-75790-10	041315-49.D	04/14/2015	07:28
SBMW-5-GW-HS-040215-FD	490-75790-11	041315-50.D	04/14/2015	07:54
SBMW-5-GW-HS-040215 DL	490-75790-10 DL	041315-52.D	04/14/2015	08:48
SBMW-5-GW-HS-040215-FD DL	490-75790-11 DL	041315-53.D	04/14/2015	09:14
SWMW-5-GW-HS-040215 MS	490-75790-8 MS	041315-54.D	04/14/2015	09:41
SWMW-5-GW-HS-040215 MSD	490-75790-8 MSD	041315-55.D	04/14/2015	10:07

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Sample No.: ICIS 490-238076/10 Date Analyzed: 04/01/2015 16:09

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 040115-10.D Heated Purge: (Y/N) N

Calibration ID: 39104

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		450998	7.07	361878	11.55	196525	15.40
UPPER LIMIT		901996	7.57	723756	12.05	393050	15.90
LOWER LIMIT		225499	6.57	180939	11.05	98263	14.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-238076/15		459443	7.07	360643	11.54	195935	15.40
CCVIS 490-240821/2		456937	7.07	346676	11.55	190123	15.40

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Sample No.: CCVIS 490-240821/2 Date Analyzed: 04/13/2015 10:44

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 041315-02.D Heated Purge: (Y/N) N

Calibration ID: 39104

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		456937	7.07	346676	11.55	190123	15.40
UPPER LIMIT		913874	7.57	693352	12.05	380246	15.90
LOWER LIMIT		228469	6.57	173338	11.05	95062	14.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-240821/3		460376	7.07	343625	11.54	186386	15.40
LCSD 490-240821/4		468005	7.06	354713	11.55	197569	15.40
MB 490-240821/7		434964	7.07	326265	11.56	159163	15.41
490-75790-3	SPRW-205-GW-HS-040215	425701	7.07	315351	11.56	153249	15.41
490-75790-3 DL	SPRW-205-GW-HS-040215 DL	424276	7.07	318117	11.56	156632	15.41
490-75790-6	SPRW-206-GW-HS-040215	402856	7.07	307626	11.56	148282	15.41
490-75790-6 DL	SPRW-206-GW-HS-040215 DL	422442	7.07	313300	11.56	149931	15.41
490-75790-14	SWMW-6-GW-HS-040215	420877	7.07	316086	11.56	153974	15.41
490-75790-14 DL	SWMW-6-GW-HS-040215 DL	418996	7.07	311919	11.55	152113	15.41

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Sample No.: CCVIS 490-240980/2 Date Analyzed: 04/13/2015 22:35

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 041315-27.D Heated Purge: (Y/N) N

Calibration ID: 39104

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		461846	7.07	353767	11.54	195918	15.40
UPPER LIMIT		923692	7.57	707534	12.04	391836	15.90
LOWER LIMIT		230923	6.57	176884	11.04	97959	14.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-240980/3		466668	7.07	355156	11.54	195302	15.40
LCSD 490-240980/4		463235	7.07	356391	11.55	198039	15.40
MB 490-240980/7		428490	7.07	314209	11.55	155698	15.41
490-75790-7	SBMW-6-GW-HS-040215	451460	7.07	337387	11.55	169640	15.41
490-75790-7 DL	SBMW-6-GW-HS-040215 DL	436604	7.07	323638	11.55	161729	15.41
490-75790-5	SPRW-201-GW-HS-040215	435102	7.07	326331	11.56	158559	15.41
490-75790-5 DL	SPRW-201-GW-HS-040215 DL	415253	7.07	309030	11.56	152409	15.41

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Sample No.: ICIS 490-233414/7 Date Analyzed: 03/13/2015 13:38

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 031315-07.D Heated Purge: (Y/N) N

Calibration ID: 38060

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		408511	3.45	313426	5.71	183438	7.82
UPPER LIMIT		817022	3.95	626852	6.21	366876	8.32
LOWER LIMIT		204256	2.95	156713	5.21	91719	7.32
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-233414/12		394345	3.45	308116	5.72	176941	7.82
CCVIS 490-240523/2		406419	3.45	310372	5.72	159662	7.82
CCVIS 490-240982/2		407061	3.45	304884	5.72	166337	7.82

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Sample No.: CCVIS 490-240523/2 Date Analyzed: 04/11/2015 00:06

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 041015-33.D Heated Purge: (Y/N) N

Calibration ID: 38060

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		406419	3.45	310372	5.72	159662	7.82
UPPER LIMIT		812838	3.95	620744	6.22	319324	8.32
LOWER LIMIT		203210	2.95	155186	5.22	79831	7.32
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-240523/3		409010	3.45	308958	5.72	157444	7.82
MB 490-240523/6		361995	3.45	290944	5.72	145168	7.83
490-75790-15	SPMW-5-GW-HS-040215	371625	3.45	290743	5.72	136067	7.83
490-75790-16	SPMW-6-GW-HS-040215	376155	3.45	289197	5.72	134312	7.83
490-75790-17	SPMW-9-GW-HS-040215	375761	3.45	287426	5.71	138216	7.83
490-75790-19	BRMW-08-GW-HS-040215	367758	3.45	283543	5.72	131278	7.83
490-75790-20	BRMW-03-GW-HS-040215	373744	3.45	285457	5.72	133123	7.83
490-75790-21	BRMW-03A-GW-HS-040215	377860	3.45	286886	5.72	137181	7.83
490-75790-22	BRMW-14-GW-HS-040215	372139	3.45	286250	5.72	134943	7.83
490-75790-23	BRMW-14A-GW-HS-040215	376836	3.45	287639	5.72	132913	7.83
490-75790-24	BRMW-12A-GW-HS-040215	373767	3.45	283638	5.72	130236	7.83
490-75790-25	BRMW-02-GW-HS-040215	376060	3.45	277571	5.72	130167	7.83
490-75790-26	BRMW-02A-GW-HS-040215	362639	3.45	271197	5.72	129364	7.83

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Sample No.: CCVIS 490-240926/2 Date Analyzed: 04/13/2015 15:01

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 041315-12.D Heated Purge: (Y/N) N

Calibration ID: 38060

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		397998	3.45	298720	5.72	163687	7.82
UPPER LIMIT		795996	3.95	597440	6.22	327374	8.32
LOWER LIMIT		198999	2.95	149360	5.22	81844	7.32
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-240926/4		410431	3.45	307386	5.72	165359	7.82
MB 490-240926/7		386968	3.45	294928	5.72	146055	7.82
490-75790-1	TB-02-040215	388150	3.45	288645	5.72	145796	7.83
490-75790-18	BRMW-09-GW-HS-040215	382373	3.45	286263	5.71	140089	7.83
490-75790-2	SPMW-18-GW-HS-040215	383525	3.45	287185	5.72	142035	7.83
490-75790-4	SPRW-204-GW-HS-040215	390022	3.45	287810	5.72	143123	7.83
490-75790-18 MS	BRMW-09-GW-HS-040215 MS	404530	3.45	302907	5.72	166206	7.82
490-75790-18 MSD	BRMW-09-GW-HS-040215 MSD	412635	3.45	308665	5.72	166102	7.82

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Sample No.: CCVIS 490-240982/2 Date Analyzed: 04/14/2015 03:02

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 041315-39.D Heated Purge: (Y/N) N

Calibration ID: 38060

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		407061	3.45	304884	5.72	166337	7.82
UPPER LIMIT		814122	3.95	609768	6.22	332674	8.32
LOWER LIMIT		203531	2.95	152442	5.22	83169	7.32
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-240982/3		417091	3.45	309003	5.71	164832	7.83
LCSD 490-240982/4		410218	3.45	312210	5.72	166884	7.82
MB 490-240982/7		386395	3.45	289799	5.72	146025	7.83
490-75790-8	SWMW-5-GW-HS-040215	381861	3.45	288466	5.71	142548	7.83
490-75790-9	SAMW-2-GW-HS-040215	387327	3.45	289361	5.72	144087	7.83
490-75790-12	SBMW-3-GW-HS-040215	382516	3.45	284316	5.72	138851	7.83
490-75790-13	SBMW-7-GW-HS-040215	380534	3.45	280884	5.72	140252	7.83
490-75790-10	SBMW-5-GW-HS-040215	389650	3.45	294116	5.72	142652	7.83
490-75790-11	SBMW-5-GW-HS-040215-FD	389307	3.45	290359	5.72	142329	7.83
490-75790-10 DL	SBMW-5-GW-HS-040215 DL	383061	3.45	288139	5.72	141300	7.83
490-75790-11 DL	SBMW-5-GW-HS-040215-FD DL	390438	3.45	286222	5.71	142174	7.83
490-75790-8 MS	SWMW-5-GW-HS-040215 MS	400167	3.45	301768	5.72	164878	7.82
490-75790-8 MSD	SWMW-5-GW-HS-040215 MSD	409479	3.45	302220	5.72	163141	7.82

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: TB-02-040215 | Lab Sample ID: 490-75790-1

Matrix: Water | Lab File ID: 041315-18.D

Analysis Method: 8260B | Date Collected: 04/02/2015 09:00

Sample wt/vol: 10(mL) | Date Analyzed: 04/13/2015 17:42

Soil Aliquot Vol: 10 (mL) | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240926 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SPMW-18-GW-HS-040215 | Lab Sample ID: 490-75790-2

Matrix: Water | Lab File ID: 041315-33.D

Analysis Method: 8260B | Date Collected: 04/02/2015 09:30

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 00:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240926 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	0.468	J	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	17.0		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	7.40		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SPRW-205-GW-HS-040215 | Lab Sample ID: 490-75790-3

Matrix: Water | Lab File ID: 041315-18.D

Analysis Method: 8260B | Date Collected: 04/02/2015 10:15

Sample wt/vol: 10(mL) | Date Analyzed: 04/13/2015 18:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240821 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	41.1		1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	139		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: SPRW-205-GW-HS-040215 DL Lab Sample ID: 490-75790-3 DL

Matrix: Water Lab File ID: 041315-19.D

Analysis Method: 8260B Date Collected: 04/02/2015 10:15

Sample wt/vol: 10(mL) Date Analyzed: 04/13/2015 18:47

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 240821 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	191		5.00	0.700

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-130
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SPRW-204-GW-HS-040215 | Lab Sample ID: 490-75790-4

Matrix: Water | Lab File ID: 041315-34.D

Analysis Method: 8260B | Date Collected: 04/02/2015 10:30

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 00:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240926 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	107		1.00	0.210
75-35-4	1,1-Dichloroethene	0.298	J	1.00	0.250
127-18-4	Tetrachloroethene	78.6		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	0.412	J	1.00	0.230
79-01-6	Trichloroethene	181		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
1868-53-7	Dibromofluoromethane (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: SPRW-201-GW-HS-040215 Lab Sample ID: 490-75790-5

Matrix: Water Lab File ID: 041315-46.D

Analysis Method: 8260B Date Collected: 04/02/2015 10:40

Sample wt/vol: 10(mL) Date Analyzed: 04/14/2015 07:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 240980 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	4.79		1.00	0.250
127-18-4	Tetrachloroethene	198		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	3.25		1.00	0.230
75-01-4	Vinyl chloride	9.06		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
1868-53-7	Dibromofluoromethane (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: SPRW-201-GW-HS-040215 DL Lab Sample ID: 490-75790-5 DL

Matrix: Water Lab File ID: 041315-48.D

Analysis Method: 8260B Date Collected: 04/02/2015 10:40

Sample wt/vol: 10(mL) Date Analyzed: 04/14/2015 08:34

Soil Aliquot Vol: Dilution Factor: 20

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 240980 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1670		20.0	4.20
79-01-6	Trichloroethene	1030		20.0	4.00

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-130
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: SPRW-206-GW-HS-040215 Lab Sample ID: 490-75790-6

Matrix: Water Lab File ID: 041315-20.D

Analysis Method: 8260B Date Collected: 04/02/2015 10:50

Sample wt/vol: 10(mL) Date Analyzed: 04/13/2015 19:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 240821 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	40.8		1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		70-130
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
1868-53-7	Dibromofluoromethane (Surr)	108		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: SPRW-206-GW-HS-040215 DL Lab Sample ID: 490-75790-6 DL

Matrix: Water Lab File ID: 041315-21.D

Analysis Method: 8260B Date Collected: 04/02/2015 10:50

Sample wt/vol: 10(mL) Date Analyzed: 04/13/2015 19:44

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 240821 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	197		5.00	0.700
79-01-6	Trichloroethene	287		5.00	1.00

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-130
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SBMW-6-GW-HS-040215 | Lab Sample ID: 490-75790-7

Matrix: Water | Lab File ID: 041315-44.D

Analysis Method: 8260B | Date Collected: 04/02/2015 12:30

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 06:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240980 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	23.2		1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
156-60-5	trans-1,2-Dichloroethene	0.233	J	1.00	0.230
79-01-6	Trichloroethene	33.9		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	92		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SBMW-6-GW-HS-040215 DL | Lab Sample ID: 490-75790-7 DL

Matrix: Water | Lab File ID: 041315-45.D

Analysis Method: 8260B | Date Collected: 04/02/2015 12:30

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 07:08

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240980 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	582		10.0	1.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	92		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SWMW-5-GW-HS-040215 | Lab Sample ID: 490-75790-8

Matrix: Water | Lab File ID: 041315-45.D

Analysis Method: 8260B | Date Collected: 04/02/2015 12:45

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 05:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240982 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	12.9		1.00	0.210
75-35-4	1,1-Dichloroethene	1.48		1.00	0.250
127-18-4	Tetrachloroethene	5.64		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	0.252	J	1.00	0.230
79-01-6	Trichloroethene	11.7		1.00	0.200
75-01-4	Vinyl chloride	2.57		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SAMW-2-GW-HS-040215 | Lab Sample ID: 490-75790-9

Matrix: Water | Lab File ID: 041315-46.D

Analysis Method: 8260B | Date Collected: 04/02/2015 14:00

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 06:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240982 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	0.277	J	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SBMW-5-GW-HS-040215 | Lab Sample ID: 490-75790-10

Matrix: Water | Lab File ID: 041315-49.D

Analysis Method: 8260B | Date Collected: 04/02/2015 14:45

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 07:28

Soil Aliquot Vol: 10 (mL) | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240982 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
156-60-5	trans-1,2-Dichloroethene	2.60		1.00	0.230
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SBMW-5-GW-HS-040215 DL | Lab Sample ID: 490-75790-10 DL

Matrix: Water | Lab File ID: 041315-52.D

Analysis Method: 8260B | Date Collected: 04/02/2015 14:45

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 08:48

Soil Aliquot Vol: 10 (mL) | Dilution Factor: 20

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240982 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	485		20.0	4.20
127-18-4	Tetrachloroethene	3270		20.0	2.80
79-01-6	Trichloroethene	215		20.0	4.00

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SBMW-5-GW-HS-040215-FD | Lab Sample ID: 490-75790-11

Matrix: Water | Lab File ID: 041315-50.D

Analysis Method: 8260B | Date Collected: 04/02/2015 14:50

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 07:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240982 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
156-60-5	trans-1,2-Dichloroethene	2.54		1.00	0.230
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: SBMW-5-GW-HS-040215-FD DL Lab Sample ID: 490-75790-11 DL

Matrix: Water Lab File ID: 041315-53.D

Analysis Method: 8260B Date Collected: 04/02/2015 14:50

Sample wt/vol: 10(mL) Date Analyzed: 04/14/2015 09:14

Soil Aliquot Vol: Dilution Factor: 20

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 240982 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	493		20.0	4.20
127-18-4	Tetrachloroethene	3790		20.0	2.80
79-01-6	Trichloroethene	226		20.0	4.00

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SBMW-3-GW-HS-040215 | Lab Sample ID: 490-75790-12

Matrix: Water | Lab File ID: 041315-47.D

Analysis Method: 8260B | Date Collected: 04/02/2015 15:00

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 06:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240982 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	7.58		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	0.353	J	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SBMW-7-GW-HS-040215 | Lab Sample ID: 490-75790-13

Matrix: Water | Lab File ID: 041315-48.D

Analysis Method: 8260B | Date Collected: 04/02/2015 15:20

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 07:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240982 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.85		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: SWMW-6-GW-HS-040215 Lab Sample ID: 490-75790-14

Matrix: Water Lab File ID: 041315-22.D

Analysis Method: 8260B Date Collected: 04/02/2015 16:30

Sample wt/vol: 10(mL) Date Analyzed: 04/13/2015 20:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 240821 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.73		1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	11.9		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-130
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SWMW-6-GW-HS-040215 DL | Lab Sample ID: 490-75790-14 DL

Matrix: Water | Lab File ID: 041315-23.D

Analysis Method: 8260B | Date Collected: 04/02/2015 16:30

Sample wt/vol: 10(mL) | Date Analyzed: 04/13/2015 20:42

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240821 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	397		5.00	0.700

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-130
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SPMW-5-GW-HS-040215 | Lab Sample ID: 490-75790-15

Matrix: Water | Lab File ID: 041015-40.D

Analysis Method: 8260B | Date Collected: 04/02/2015 08:55

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 03:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240523 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
460-00-4	4-Bromofluorobenzene (Surr)	107		70-130
1868-53-7	Dibromofluoromethane (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SPMW-6-GW-HS-040215 | Lab Sample ID: 490-75790-16

Matrix: Water | Lab File ID: 041015-41.D

Analysis Method: 8260B | Date Collected: 04/02/2015 09:16

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 03:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240523 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	0.175	J	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
460-00-4	4-Bromofluorobenzene (Surr)	106		70-130
1868-53-7	Dibromofluoromethane (Surr)	92		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SPMW-9-GW-HS-040215 | Lab Sample ID: 490-75790-17

Matrix: Water | Lab File ID: 041015-42.D

Analysis Method: 8260B | Date Collected: 04/02/2015 09:10

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 04:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240523 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene (Surr)	106		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: BRMW-09-GW-HS-040215 | Lab Sample ID: 490-75790-18

Matrix: Water | Lab File ID: 041315-19.D

Analysis Method: 8260B | Date Collected: 04/02/2015 14:55

Sample wt/vol: 10(mL) | Date Analyzed: 04/13/2015 18:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240926 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: BRMW-08-GW-HS-040215 Lab Sample ID: 490-75790-19

Matrix: Water Lab File ID: 041015-43.D

Analysis Method: 8260B Date Collected: 04/02/2015 15:35

Sample wt/vol: 10(mL) Date Analyzed: 04/11/2015 04:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 240523 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
460-00-4	4-Bromofluorobenzene (Surr)	106		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: BRMW-03-GW-HS-040215 | Lab Sample ID: 490-75790-20

Matrix: Water | Lab File ID: 041015-44.D

Analysis Method: 8260B | Date Collected: 04/02/2015 15:50

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 04:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240523 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.64		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.28		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene (Surr)	109		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: BRMW-03A-GW-HS-040215 | Lab Sample ID: 490-75790-21

Matrix: Water | Lab File ID: 041015-45.D

Analysis Method: 8260B | Date Collected: 04/02/2015 15:55

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 05:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240523 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
460-00-4	4-Bromofluorobenzene (Surr)	106		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: BRMW-14-GW-HS-040215 | Lab Sample ID: 490-75790-22

Matrix: Water | Lab File ID: 041015-46.D

Analysis Method: 8260B | Date Collected: 04/02/2015 16:05

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 05:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240523 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	0.340	J	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
460-00-4	4-Bromofluorobenzene (Surr)	104		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: BRMW-14A-GW-HS-040215 | Lab Sample ID: 490-75790-23

Matrix: Water | Lab File ID: 041015-47.D

Analysis Method: 8260B | Date Collected: 04/02/2015 16:15

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 06:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240523 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	0.335	J	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene (Surr)	105		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: BRMW-12A-GW-HS-040215 | Lab Sample ID: 490-75790-24

Matrix: Water | Lab File ID: 041015-48.D

Analysis Method: 8260B | Date Collected: 04/02/2015 16:25

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 06:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240523 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.03		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	0.357	J	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
460-00-4	4-Bromofluorobenzene (Surr)	105		70-130
1868-53-7	Dibromofluoromethane (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: BRMW-02-GW-HS-040215 | Lab Sample ID: 490-75790-25

Matrix: Water | Lab File ID: 041015-49.D

Analysis Method: 8260B | Date Collected: 04/02/2015 16:40

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 07:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240523 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	0.804	J	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	39.0		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	102		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
1868-53-7	Dibromofluoromethane (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: BRMW-02A-GW-HS-040215 | Lab Sample ID: 490-75790-26

Matrix: Water | Lab File ID: 041015-50.D

Analysis Method: 8260B | Date Collected: 04/02/2015 16:45

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 07:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240523 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.42		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	0.501	J	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-238076/5	040115-05.D
Level 2	STD001 490-238076/6	040115-06.D
Level 3	STD002 490-238076/7	040115-07.D
Level 4	STD010 490-238076/8	040115-08.D
Level 5	STD020 490-238076/9	040115-09.D
Level 6	ICIS 490-238076/10	040115-10.D
Level 7	STD100 490-238076/11	040115-11.D
Level 8	STD200 490-238076/12	040115-12.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2634 0.2518	0.2549 0.2349	0.2502 0.2243	0.2465	0.2481	Ave		0.2468				4.9		15.0			
Chloromethane	0.3185 0.2732	0.3060 0.2554	0.2843 0.2553	0.2722	0.2641	Ave		0.2786			0.1000	8.3		15.0			
Vinyl chloride	0.3390 0.2911	0.3065 0.2746	0.2959 0.2648	0.2858	0.2882	Ave		0.2932				7.6		15.0			
Butadiene	0.3057 0.2597	0.2798 0.2488	0.2577 0.2386	0.2527	0.2607	Ave		0.2630				7.9		15.0			
Bromomethane	0.1903 0.1623	0.1544 0.1543	0.1532 0.1535	0.1543	0.1476	Ave		0.1587				8.4		15.0			
Chloroethane	0.2054 0.1730	0.2014 0.1628	0.1909 0.1561	0.1753	0.1741	Ave		0.1799				9.8		15.0			
Dichlorofluoromethane	0.5448 0.4311	0.4807 0.3995	0.4544 0.3800	0.4295	0.4305	Ave		0.4438				11.5		15.0			
Trichlorofluoromethane	0.4309 0.3788	0.4125 0.3524	0.3975 0.3382	0.3776	0.3780	Ave		0.3832				7.9		15.0			
Ethanol	+++++ 0.0007	0.0006 0.0007	0.0007 0.0006	0.0005	0.0007	Ave		0.0006				9.1		15.0			
Diethyl ether	0.1409 0.1387	0.1516 0.1345	0.1491 0.1296	0.1357	0.1405	Ave		0.1401				5.2		15.0			
Acrolein	+++++ 0.0110	0.0143 0.0111	0.0109 0.0114	0.0097	0.0098	Ave		0.0112				13.7		15.0			
1,1-Dichloroethene	0.2712 0.2203	0.2449 0.2069	0.2261 0.1994	0.2171	0.2133	Ave		0.2249				10.3		15.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.2667 0.2366	0.2562 0.2181	0.2494 0.2063	0.2368	0.2372	Ave		0.2384				8.2		15.0			
Acetone	0.0220 0.0097	0.0170 0.0084	0.0113 0.0087	0.0095	0.0099	Lin2	0.0337	0.0090							0.9910		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Iodomethane	0.2629 0.3192	0.2772 0.2953	0.2840 0.2784	0.2959	0.2977	Ave		0.2888				5.9		15.0			
Isopropyl alcohol	0.0074 0.0045	0.0069 0.0044	0.0056 0.0041	0.0036	0.0046	Lin1	0.0199	0.0042							0.9970		0.9900
Carbon disulfide	0.7128 0.6098	0.6330 0.5761	0.6229 0.5525	0.5787	0.5894	Ave		0.6094				8.1		15.0			
Acetonitrile	0.0567 0.0461	0.0481 0.0438	0.0470 0.0408	0.0444	0.0452	Ave		0.0465				10.1		15.0			
3-Chloro-1-propene	0.1419 0.1324	0.1419 0.1309	0.1416 0.1235	0.1306	0.1287	Ave		0.1339				5.2		15.0			
Methyl acetate	0.1315 0.0881	0.1098 0.0833	0.1029 0.0776	0.0867	0.0909	Lin2	0.1197	0.0853							0.9970		0.9900
Methylene Chloride	0.4866 0.2244	0.3408 0.2121	0.2900 0.2030	0.2360	0.2257	Lin2	0.1345	0.2154							0.9980		0.9900
tert-Butyl alcohol (TBA)	0.0072 0.0077	0.0075 0.0073	0.0080 0.0069	0.0064	0.0078	Ave		0.0074				7.0		15.0			
Acrylonitrile	0.0521 0.0436	0.0453 0.0416	0.0468 0.0391	0.0420	0.0436	Ave		0.0443				8.9		15.0			
trans-1,2-Dichloroethene	0.3468 0.3083	0.3297 0.2948	0.3175 0.2829	0.3036	0.3046	Ave		0.3110				6.5		15.0			
Methyl tert-butyl ether	0.4963 0.4421	0.4687 0.4207	0.4706 0.3976	0.4196	0.4453	Ave		0.4451				7.3		15.0			
Hexane	0.4518 0.3655	0.3977 0.3436	0.3925 0.3272	0.3573	0.3593	Ave		0.3744				10.4		15.0			
1,1-Dichloroethane	0.5038 0.4264	0.4829 0.4026	0.4594 0.3814	0.4238	0.4230	Ave		0.4379			0.1000	9.4		15.0			
Vinyl acetate	+++++ 0.4070	0.4267 0.4075	0.4416 0.3665	0.4024	0.4031	Ave		0.4078				5.7		15.0			
Diisopropyl ether	0.7927 0.6501	0.6950 0.6207	0.6724 0.5771	0.6351	0.6469	Ave		0.6612				9.6		15.0			
Chloroprene	0.4307 0.3550	0.3969 0.3354	0.3521 0.3208	0.3426	0.3463	Ave		0.3600				10.0		15.0			
Ethyl tert-butyl ether	0.5008 0.5439	0.5821 0.5232	0.5802 0.5003	0.5229	0.5407	Ave		0.5368				5.9		15.0			
2,2-Dichloropropane	0.4021 0.3525	0.3948 0.3370	0.3771 0.3279	0.3456	0.3427	Ave		0.3600				7.7		15.0			
cis-1,2-Dichloroethene	0.3644 0.3566	0.3847 0.3426	0.3793 0.3305	0.3492	0.3516	Ave		0.3574				5.1		15.0			
2-Butanone (MEK)	0.0146 0.0132	0.0143 0.0122	0.0148 0.0120	0.0126	0.0134	Ave		0.0134				8.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propionitrile	0.0115 0.0150	0.0179 0.0146	0.0161 0.0136	0.0139	0.0151	Ave		0.0147				12.7		15.0			
Ethyl acetate	0.0970 0.1000	0.1093 0.0954	0.1073 0.0882	0.0986	0.1006	Ave		0.0996				6.7		15.0			
Bromochloromethane	0.1432 0.1323	0.1436 0.1201	0.1392 0.1145	0.1307	0.1302	Ave		0.1317				7.9		15.0			
Methacrylonitrile	0.0573 0.0707	0.0716 0.0665	0.0701 0.0623	0.0681	0.0707	Ave		0.0672				7.4		15.0			
Tetrahydrofuran	+++++ 0.0308	0.0508 0.0297	0.0438 0.0286	0.0314	0.0312	Lin2	0.0446	0.0298							0.9970		0.9900
Chloroform	0.6342 0.4056	0.5233 0.3784	0.4625 0.3634	0.4107	0.4056	Lin2	0.1254	0.3902							0.9980		0.9900
1,1,1-Trichloroethane	0.4032 0.3535	0.3603 0.3442	0.3596 0.3358	0.3425	0.3426	Ave		0.3552				6.0		15.0			
Cyclohexane	0.3873 0.3910	0.3877 0.3775	0.3589 0.3902	0.3545	0.3697	Ave		0.3771				3.9		15.0			
1,1-Dichloropropene	0.3287 0.3239	0.3128 0.3199	0.2986 0.3131	0.2956	0.3043	Ave		0.3121				3.8		15.0			
Carbon tetrachloride	0.3152 0.3166	0.3042 0.3098	0.2891 0.3007	0.2905	0.2999	Ave		0.3032				3.4		15.0			
Isobutanol	+++++ 0.0030	0.0030 0.0030	0.0034 0.0030	0.0023	0.0029	Ave		0.0029				11.4		15.0			
Benzene	1.0415 0.9528	0.9393 0.9104	0.9154 0.8515	0.9099	0.9265	Ave		0.9309				5.8		15.0			
1,2-Dichloroethane	0.2799 0.2573	0.2614 0.2502	0.2619 0.2426	0.2481	0.2523	Ave		0.2567				4.5		15.0			
t-Amyl alcohol	+++++ 0.0058	0.0045 0.0056	0.0049 0.0055	0.0043	0.0054	Ave		0.0052				11.6		15.0			
Tert-amyl methyl ether	0.3872 0.4593	0.3864 0.4512	0.4157 0.4388	0.4107	0.4378	Ave		0.4234				6.6		15.0			
Heptane	0.3703 0.3218	0.2714 0.3097	0.2952 0.3108	0.2834	0.2959	Ave		0.3073				9.8		15.0			
n-Butanol	+++++ 0.0018	0.0012 0.0018	0.0016 0.0018	0.0011	0.0015	Lin1	-0.023	0.0018							0.9960		0.9900
Trichloroethene	0.2591 0.2743	0.2636 0.2653	0.2630 0.2682	0.2522	0.2592	Ave		0.2631				2.5		15.0			
Ethyl acrylate	+++++ 0.1368	+++++ 0.1417	0.0644 0.1433	0.1041	0.1193	Lin2	-0.149	0.1353							0.9930		0.9900
Methylcyclohexane	0.3922 0.4657	0.3755 0.4433	0.3730 0.4366	0.4131	0.4365	Ave		0.4170				8.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloropropane	0.2348 0.2234	0.2106 0.2182	0.2202 0.2160	0.2162	0.2201	Ave		0.2199				3.2		15.0			
Dibromomethane	0.1101 0.1108	0.1191 0.1075	0.1100 0.1062	0.1045	0.1085	Ave		0.1096				4.0		15.0			
Methyl methacrylate	0.0833 0.1082	0.0935 0.1071	0.0882 0.1052	0.0883	0.1013	Ave		0.0969				10.1		15.0			
1,4-Dioxane	+++++ 0.0009	+++++ 0.0009	0.0005 0.0008	0.0006	0.0008	Lin1	-0.014	0.0008							0.9930		0.9900
Bromodichloromethane	0.2853 0.2874	0.2919 0.2840	0.2741 0.2806	0.2694	0.2732	Ave		0.2807				2.8		15.0			
2-Nitropropane	0.0359 0.0305	0.0293 0.0318	0.0282 0.0330	0.0249	0.0267	Ave		0.0300				11.8		15.0			
2-Chloroethyl vinyl ether	+++++ 0.1141	0.0725 0.1159	0.0808 0.1186	0.0922	0.1029	Lin2	-0.043	0.1098							0.9920		0.9900
cis-1,3-Dichloropropene	0.3615 0.4241	0.3632 0.4264	0.3685 0.4300	0.3820	0.4066	Ave		0.3953				7.5		15.0			
4-Methyl-2-pentanone (MIBK)	0.0295 0.0519	0.0392 0.0517	0.0396 0.0514	0.0446	0.0496	Lin2	-0.053	0.0496							0.9960		0.9900
Toluene	1.4662 1.3575	1.4002 1.3070	1.3516 1.2161	1.3540	1.3529	Ave		1.3507				5.3		15.0			
trans-1,3-Dichloropropene	0.2600 0.3369	0.2710 0.3419	0.2907 0.3435	0.2958	0.3167	Ave		0.3071				10.6		15.0			
Ethyl methacrylate	0.0928 0.2312	0.1381 0.2362	0.1798 0.2345	0.1773	0.2143	Lin2	-0.068	0.2194							0.9910		0.9900
1,1,2-Trichloroethane	0.2036 0.2079	0.2241 0.2026	0.2199 0.2001	0.2105	0.2070	Ave		0.2095				4.0		15.0			
Tetrachloroethene	0.4103 0.3858	0.3833 0.3758	0.3843 0.3731	0.3791	0.3777	Ave		0.3837				3.0		15.0			
1,3-Dichloropropane	0.3279 0.3501	0.3420 0.3412	0.3437 0.3306	0.3421	0.3500	Ave		0.3410				2.4		15.0			
2-Hexanone	+++++ 0.0466	0.0192 0.0464	0.0231 0.0461	0.0382	0.0429	Lin2	-0.145	0.0445							0.9910		0.9900
Chlorodibromomethane	0.1710 0.1944	0.1839 0.1945	0.1663 0.1967	0.1792	0.1877	Ave		0.1842				6.1		15.0			
n-Butyl acetate	+++++ 0.1313	+++++ 0.1485	0.0521 0.1416	0.0851	0.1444	Lin1	-0.235	0.1440							0.9960		0.9900
1,2-Dibromoethane (EDB)	0.1786 0.1994	0.1764 0.1966	0.1800 0.1954	0.1898	0.1967	Ave		0.1891				5.0		15.0			
1-Chlorohexane	0.3619 0.3783	0.3210 0.3672	0.3166 0.3617	0.3299	0.3491	Ave		0.3482				6.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Chlorobenzene	0.9518 0.8782	0.8942 0.8451	0.9260 0.8020	0.8867	0.8749	Ave		0.8824			0.3000	5.2		15.0			
1,1,1,2-Tetrachloroethane	0.2969 0.2996	0.2912 0.2973	0.2910 0.2943	0.2901	0.2945	Ave		0.2944				1.2		15.0			
Ethylbenzene	1.2884 1.4968	1.2002 1.4231	1.2937 1.3029	1.4183	1.4626	Ave		1.3607				7.6		15.0			
m,p-Xylene	1.0850 1.1728	1.0008 1.1257	0.9386 1.0461	1.1044	1.1335	Ave		1.0759				7.2		15.0			
o-Xylene	0.9377 1.1837	0.9728 1.1518	0.9403 1.0790	1.1044	1.1468	Ave		1.0646				9.4		15.0			
Styrene	0.6174 0.9769	0.7164 0.9419	0.7237 0.8815	0.8879	0.9283	Lin2	-0.166	0.9108							0.9950		0.9900
Bromoform	0.1069 0.1311	0.1130 0.1329	0.1147 0.1343	0.1184	0.1244	Ave		0.1220			0.1000	8.4		15.0			
Isopropylbenzene	1.1095 1.4992	1.0553 1.4195	1.1421 1.3208	1.3365	1.4252	Ave		1.2885				12.8		15.0			
Cyclohexanone	+++++ 0.0058	0.0014 0.0050	0.0020 0.0057	0.0036	0.0049	Lin1	-0.060	0.0055							0.9940		0.9900
Bromobenzene	1.1499 0.9175	0.8802 0.9134	0.9613 0.9440	0.8192	0.8629	Ave		0.9311				10.7		15.0			
1,1,2,2-Tetrachloroethane	0.3566 0.4039	0.3834 0.3953	0.3951 0.3982	0.3824	0.3935	Ave		0.3885			0.3000	3.8		15.0			
1,2,3-Trichloropropane	0.0613 0.1171	0.1158 0.1120	0.1045 0.1142	0.1036	0.1148	Lin2	-0.022	0.1154							0.9900		0.9900
trans-1,4-Dichloro-2-butene	+++++ 0.0863	0.0238 0.0953	0.0265 0.1003	0.0561	0.0718	Lin1	-0.127	0.0963							0.9930		0.9900
N-Propylbenzene	2.0576 3.1272	2.2755 2.9160	2.3879 2.7569	2.7999	2.9094	Ave		2.6538				14.0		15.0			
2-Chlorotoluene	2.2650 1.8639	1.8646 1.7776	1.7419 1.7496	1.7722	1.7877	Ave		1.8528				9.3		15.0			
1,3,5-Trimethylbenzene	1.7509 2.2170	1.8047 2.1350	1.7967 2.0734	2.0411	2.1071	Ave		1.9907				9.0		15.0			
4-Chlorotoluene	2.1745 2.1598	1.8791 2.0801	1.8863 2.0392	2.0324	2.0390	Ave		2.0363				5.4		15.0			
tert-Butylbenzene	1.5087 1.9406	1.3736 1.8746	1.4346 1.8517	1.6684	1.7797	Ave		1.6790				12.9		15.0			
1,2,4-Trimethylbenzene	1.8014 2.2591	1.6977 2.1676	1.6997 2.0924	2.0670	2.1383	Ave		1.9904				11.2		15.0			
sec-Butylbenzene	2.2902 2.7889	1.9887 2.6260	2.0844 2.4847	2.4459	2.5497	Ave		2.4073				11.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,3-Dichlorobenzene	1.0726 1.2844	1.1143 1.2613	1.1308 1.2539	1.1696	1.2089	Ave		1.1870				6.5		15.0			
p-Isopropyltoluene	1.5985 2.4036	1.7508 2.2968	1.8527 2.1681	2.1175	2.2327	Ave		2.0526				13.9		15.0			
1,4-Dichlorobenzene	1.4854 1.3302	1.3569 1.2721	1.2951 1.2363	1.2860	1.2965	Ave		1.3198				5.8		15.0			
1,2,3-Trimethylbenzene	2.0979 2.2514	2.0379 2.1458	1.9631 2.0125	2.0847	2.1423	Ave		2.0919				4.3		15.0			
Benzyl chloride	+++++ 0.3632	+++++ 0.3797	0.1707 0.3798	0.2563	0.3133	Lin1	-0.602	0.3792							0.9980		0.9900
1,2-Dichlorobenzene	1.0326 1.1929	1.1086 1.1607	1.0641 1.1149	1.1106	1.1530	Ave		1.1172				4.7		15.0			
n-Butylbenzene	1.0623 1.9127	1.2797 1.8661	1.2810 1.8299	1.6041	1.7135	Lin2	-0.399	1.7526							0.9910		0.9900
1,2-Dibromo-3-Chloropropane	+++++ 0.0689	0.0109 0.0675	0.0413 0.0737	0.0561	0.0636	Lin2	-0.057	0.0684							0.9960		0.9900
1,3,5-Trichlorobenzene	0.6674 0.8454	0.7134 0.8532	0.6953 0.8934	0.7416	0.7813	Ave		0.7739				10.7		15.0			
1,2,4-Trichlorobenzene	0.4109 0.7055	0.5347 0.7047	0.5374 0.7449	0.5759	0.6281	Lin2	-0.138	0.6687							0.9920		0.9900
Hexachlorobutadiene	0.3067 0.2891	0.2928 0.2858	0.2593 0.3200	0.2598	0.2552	Ave		0.2836				8.4		15.0			
Naphthalene	+++++ 1.2994	0.8484 1.2282	0.8928 1.2451	0.9231	1.1509	Lin1	-0.663	1.2437							0.9980		0.9900
1,2,3-Trichlorobenzene	0.3019 0.6082	0.4409 0.6012	0.5013 0.6085	0.5159	0.5481	Lin2	-0.142	0.5810							0.9970		0.9900
Dibromofluoromethane (Surr)	0.2350 0.2261	0.2297 0.2212	0.2304 0.2176	0.2188	0.2190	Ave		0.2247				2.9		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2282 0.2217	0.2317 0.2196	0.2353 0.2125	0.2194	0.2223	Ave		0.2238				3.3		15.0			
Toluene-d8 (Surr)	1.2731 1.2527	1.2777 1.2298	1.2899 1.2376	1.2840	1.2569	Ave		1.2627				1.7		15.0			
4-Bromofluorobenzene (Surr)	0.8318 0.8461	0.8318 0.8393	0.8182 0.8784	0.8095	0.8163	Ave		0.8339				2.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-238076/5	040115-05.D
Level 2	STD001 490-238076/6	040115-06.D
Level 3	STD002 490-238076/7	040115-07.D
Level 4	STD010 490-238076/8	040115-08.D
Level 5	STD020 490-238076/9	040115-09.D
Level 6	ICIS 490-238076/10	040115-10.D
Level 7	STD100 490-238076/11	040115-11.D
Level 8	STD200 490-238076/12	040115-12.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	2140 227146	4317 454311	8571 909640	43293	88628	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chloromethane	FB	Ave	2588 246396	5182 493759	9739 1035054	47807	94341	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Vinyl chloride	FB	Ave	2755 262540	5190 530983	10137 1073740	50192	102939	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Butadiene	FB	Ave	2484 234279	4738 481027	8827 967569	44376	93103	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Bromomethane	FB	Ave	1546 146413	2614 298438	5248 622222	27093	52716	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chloroethane	FB	Ave	1669 156082	3411 314763	6538 633029	30782	62193	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Dichlorofluoromethane	FB	Ave	4427 388807	8141 772459	15565 1540826	75423	153751	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Trichlorofluoromethane	FB	Ave	3501 341653	6985 681484	13616 1371375	66313	134996	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethanol	FB	Ave	+++++ 24626	398 51896	954 103352	3756	9440	+++++ 2000	40.0 4000	80.0 8000	400	800
Diethyl ether	FB	Ave	1145 125116	2568 259986	5107 525671	23828	50167	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Acrolein	FB	Ave	+++++ 24811	606 53429	936 116006	4253	8765	+++++ 125	2.50 250	5.00 500	25.0	50.0
1,1-Dichloroethene	FB	Ave	2204 198696	4147 400141	7745 808672	38133	76188	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	2167 213424	4339 421702	8545 836559	41578	84720	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Acetone	FB	Lin2	895 43650	1440 81339	1938 175607	8355	17654	2.50 250	5.00 500	10.0 1000	50.0	100
Iodomethane	FB	Ave	2136 287941	4694 570942	9729 1128702	51970	106340	0.500 50.0	1.00 100	2.00 200	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Isopropyl alcohol	FB	Lin1	602 40855	1169 84593	1933 166550	6260	16278	5.00 500	10.0 1000	20.0 2000	100	200
Carbon disulfide	FB	Ave	5792 550065	10720 1113984	21338 2240373	101621	210509	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Acetonitrile	FB	Ave	4607 415449	8150 846586	16099 1654632	77919	161577	5.00 500	10.0 1000	20.0 2000	100	200
3-Chloro-1-propene	FB	Ave	1153 119404	2403 253181	4850 500676	22936	45980	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Methyl acetate	FB	Lin2	5342 397217	9296 805768	17629 1573519	76113	162261	2.50 250	5.00 500	10.0 1000	50.0	100
Methylene Chloride	FB	Lin2	3954 202431	5771 410209	9933 823183	41440	80616	0.500 50.0	1.00 100	2.00 200	10.0	20.0
tert-Butyl alcohol (TBA)	FB	Ave	586 69694	1264 140720	2738 278905	11316	27944	5.00 500	10.0 1000	20.0 2000	100	200
Acrylonitrile	FB	Ave	4231 392990	7679 804196	16034 1583686	73709	155902	5.00 500	10.0 1000	20.0 2000	100	200
trans-1,2-Dichloroethene	FB	Ave	2818 278101	5583 570108	10877 1146936	53313	108792	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Methyl tert-butyl ether	FB	Ave	4033 398755	7937 813399	16122 1612162	73685	159040	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Hexane	FB	Ave	3671 329707	6735 664456	13446 1326862	62746	128325	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1-Dichloroethane	FB	Ave	4094 384644	8177 778573	15738 1546624	74423	151080	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Vinyl acetate	FB	Ave	+++++ 734180	14451 1576044	30253 2971987	141315	287931	+++++ 100	2.00 200	4.00 400	20.0	40.0
Diisopropyl ether	FB	Ave	6441 586351	11770 1200122	23034 2339772	111526	231053	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chloroprene	FB	Ave	3500 320202	6721 648543	12061 1300804	60168	123672	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethyl tert-butyl ether	FB	Ave	4069 490552	9857 1011697	19876 2028666	91820	193126	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	3267 317940	6686 651680	12917 1329447	60682	122414	0.500 50.0	1.00 100	2.00 200	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	2961 321669	6515 662480	12994 1340010	61330	125586	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Butanone (MEK)	FB	Ave	593 59313	1214 117644	2540 243431	11104	23982	2.50 250	5.00 500	10.0 1000	50.0	100
Propionitrile	FB	Ave	936 135536	3039 283202	5513 551921	24472	54030	5.00 500	10.0 1000	20.0 2000	100	200
Ethyl acetate	FB	Ave	1577 180362	3703 369010	7354 715308	34641	71840	1.00 100	2.00 200	4.00 400	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Bromochloromethane	FB	Ave	1164 119343	2431 232226	4768 464336	22945	46515	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Methacrylonitrile	FB	Ave	4658 637643	12129 1286572	24021 2528011	119553	252560	5.00 500	10.0 1000	20.0 2000	100	200
Tetrahydrofuran	FB	Lin2	+++++ 55639	1719 114796	3004 232001	11021	22311	+++++ 100	2.00 200	4.00 400	20.0	40.0
Chloroform	FB	Lin2	5153 365837	8861 731603	15842 1473385	72124	144870	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	3276 318824	6101 665654	12318 1361720	60137	122383	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Cyclohexane	FB	Ave	3147 352680	6565 729960	12293 1582268	62255	132048	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1-Dichloropropene	FB	Ave	2671 292178	5297 618543	10230 1269714	51905	108700	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Carbon tetrachloride	FB	Ave	2561 285575	5152 598964	9902 1219079	51012	107109	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Isobutanol	FB	Ave	+++++ 68395	1278 144484	2931 301078	10043	25852	+++++ 1250	25.0 2500	50.0 5000	250	500
Benzene	FB	Ave	8463 859466	15906 1760454	31359 3452712	159785	330921	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2-Dichloroethane	FB	Ave	2274 232051	4426 483761	8973 983650	43571	90109	0.500 50.0	1.00 100	2.00 200	10.0	20.0
t-Amyl alcohol	FB	Ave	+++++ 52489	759 109046	1684 224034	7518	19397	+++++ 500	10.0 1000	20.0 2000	100	200
Tert-amyl methyl ether	FB	Ave	3146 414301	6544 872538	14241 1779070	72117	156384	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Heptane	FB	Ave	3009 290254	4596 598938	10112 1260169	49773	105693	0.500 50.0	1.00 100	2.00 200	10.0	20.0
n-Butanol	FB	Lin1	+++++ 40603	509 86942	1397 180695	4909	13268	+++++ 1250	25.0 2500	50.0 5000	250	500
Trichloroethene	FB	Ave	2105 247434	4464 512986	9009 1087654	44297	92588	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethyl acrylate	FB	Lin2	+++++ 123385	+++++ 274075	2207 580839	18277	42626	+++++ 50.0	+++++ 100	2.00 200	10.0	20.0
Methylcyclohexane	FB	Ave	3187 420099	6359 857280	12778 1770277	72536	155903	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2-Dichloropropane	FB	Ave	1908 201504	3566 421962	7542 875667	37966	78604	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Dibromomethane	FB	Ave	895 99955	2017 207892	3767 430425	18345	38764	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Methyl methacrylate	FB	Ave	1354 195163	3168 414074	6042 853014	31018	72331	1.00 100	2.00 200	4.00 400	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	FB	Lin1	+++++ 16058	+++++ 34958	366 63112	2081	5828	+++++ 1000	+++++ 2000	40.0 4000	200	400
Bromodichloromethane	FB	Ave	2318 259261	4944 549126	9388 1137729	47305	97573	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Nitropropane	FB	Ave	584 54991	993 122800	1934 267408	8752	19060	1.00 100	2.00 200	4.00 400	20.0	40.0
2-Chloroethyl vinyl ether	CBZ	Lin2	+++++ 82568	933 179151	2107 380451	12314	28570	+++++ 50.0	1.00 100	2.00 200	10.0	20.0
cis-1,3-Dichloropropene	CBZ	Ave	2255 306967	4672 659076	9613 1378915	51019	112863	0.500 50.0	1.00 100	2.00 200	10.0	20.0
4-Methyl-2-pentanone (MIBK)	CBZ	Lin2	921 187967	2524 399502	5161 823780	29810	68834	2.50 250	5.00 500	10.0 1000	50.0	100
Toluene	CBZ	Ave	9147 982513	18010 2020136	35255 3899685	180817	375563	0.500 50.0	1.00 100	2.00 200	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	1622 243804	3486 528515	7582 1101638	39508	87927	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethyl methacrylate	CBZ	Lin2	579 167362	1776 365098	4690 751987	23671	59500	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	1270 150474	2883 313151	5736 641695	28109	57450	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Tetrachloroethene	CBZ	Ave	2560 279258	4930 580791	10024 1196398	50622	104841	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	2046 253358	4399 527365	8966 1060137	45681	97164	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Hexanone	CBZ	Lin2	+++++ 168782	1236 358898	3013 738568	25530	59598	+++++ 250	5.00 500	10.0 1000	50.0	100
Chlorodibromomethane	CBZ	Ave	1067 140709	2366 300624	4339 630755	23929	52099	0.500 50.0	1.00 100	2.00 200	10.0	20.0
n-Butyl acetate	FB	Lin1	+++++ 118422	+++++ 287106	1785 574261	14948	51586	+++++ 50.0	+++++ 100	2.00 200	10.0	20.0
1,2-Dibromoethane (EDB)	CBZ	Ave	1114 144306	2269 303827	4694 626700	25341	54596	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1-Chlorohexane	FB	Ave	2941 341217	5436 710052	10847 1466413	57925	124695	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chlorobenzene	CBZ	Ave	5938 635611	11502 1306202	24154 2571774	118410	242874	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	1852 216865	3746 459448	7591 943832	38742	81762	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethylbenzene	CBZ	Ave	8038 1083331	15437 2199544	33744 4178000	189404	406003	0.500 50.0	1.00 100	2.00 200	10.0	20.0
m,p-Xylene	CBZ	Ave	6769 848829	12873 1739924	24482 3354304	147483	314655	0.500 50.0	1.00 100	2.00 200	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
o-Xylene	CBZ	Ave	5850 856686	12512 1780353	24528 3459924	147488	318347	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Styrene	CBZ	Lin2	3852 707030	9214 1455880	18878 2826742	118573	257695	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Bromoform	CBZ	Ave	667 94886	1454 205341	2992 430555	15815	34525	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Isopropylbenzene	CBZ	Ave	6922 1085051	13573 2193982	29792 4235409	178481	395620	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Cyclohexanone	FB	Lin1	+++++ 52668	245 97219	696 230981	6310	17548	+++++ 500	10.0 1000	20.0 2000	100	200
Bromobenzene	DCB	Ave	3599 360629	5809 760240	13262 1554757	60493	133040	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	1116 158735	2530 328982	5451 655838	28239	60671	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,3-Trichloropropane	DCB	Lin2	192 46024	764 93182	1441 188083	7650	17692	0.500 50.0	1.00 100	2.00 200	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Lin1	+++++ 33927	157 79282	365 165190	4143	11075	+++++ 50.0	1.00 100	2.00 200	10.0	20.0
N-Propylbenzene	DCB	Ave	6440 1229131	15017 2427055	32941 4540412	206747	448537	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Chlorotoluene	DCB	Ave	7089 732595	12305 1479554	24030 2881482	130862	275614	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	5480 871410	11910 1777049	24786 3414672	150711	324848	0.500 50.0	1.00 100	2.00 200	10.0	20.0
4-Chlorotoluene	DCB	Ave	6806 848891	12401 1731303	26022 3358333	150073	314349	0.500 50.0	1.00 100	2.00 200	10.0	20.0
tert-Butylbenzene	DCB	Ave	4722 762756	9065 1560287	19791 3049530	123194	274380	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	5638 887927	11204 1804136	23448 3445973	152623	329667	0.500 50.0	1.00 100	2.00 200	10.0	20.0
sec-Butylbenzene	DCB	Ave	7168 1096163	13124 2185708	28755 4092170	180601	393090	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	3357 504828	7354 1049800	15600 2065032	86365	186380	0.500 50.0	1.00 100	2.00 200	10.0	20.0
p-Isopropyltoluene	DCB	Ave	5003 944724	11554 1911695	25559 3570712	156356	344222	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	4649 522831	8955 1058771	17866 2036073	94956	199882	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,3-Trimethylbenzene	DCB	Ave	6566 884923	13449 1786011	27081 3314382	153933	330272	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Benzyl chloride	CBZ	Lin1	+++++ 262835	+++++ 586955	4453 1217724	34223	86971	+++++ 50.0	+++++ 100	2.00 200	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2-Dichlorobenzene	DCB	Ave	3232 468881	7316 966093	14679 1836205	82008	177752	0.500 50.0	1.00 100	2.00 200	10.0	20.0
n-Butylbenzene	DCB	Lin2	3325 751790	8445 1553165	17671 3013650	118447	264175	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Lin2	+++++ 27100	72 56180	570 121303	4142	9798	+++++ 50.0	1.00 100	2.00 200	10.0	20.0
1,3,5-Trichlorobenzene	DCB	Ave	2089 332283	4708 710118	9592 1471439	54759	120454	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Lin2	1286 277278	3529 586554	7414 1226736	42525	96838	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Hexachlorobutadiene	DCB	Ave	960 113637	1932 237839	3577 527081	19184	39340	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Naphthalene	DCB	Lin1	+++++ 510712	5599 1022284	12316 2050529	68159	177442	+++++ 50.0	1.00 100	2.00 200	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Lin2	945 239048	2910 500404	6915 1002152	38093	84495	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	95458 101963	97226 106910	98650 110277	96067	97764	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	92716 99988	98112 106177	100735 107677	96321	99262	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBZ	Ave	397129 453327	410858 475223	420563 496057	428685	436140	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	DCB	Ave	130171 166280	137242 174642	141090 180822	149431	157313	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-233414/2	031315-02.D
Level 2	STD001 490-233414/3	031315-03.D
Level 3	STD002 490-233414/4	031315-04.D
Level 4	STD010 490-233414/5	031315-05.D
Level 5	STD020 490-233414/6	031315-06.D
Level 6	ICIS 490-233414/7	031315-07.D
Level 7	STD100 490-233414/8	031315-08.D
Level 8	STD200 490-233414/9	031315-09.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.3005 0.2664	0.3035 0.2705	0.2843 0.2641	0.2726	0.2702	Ave		0.2790				5.5		15.0			
Chloromethane	0.2164 0.1978	0.2213 0.2007	0.2136 0.2037	0.2044	0.2007	Ave		0.2073			0.1000	4.1		15.0			
Vinyl chloride	0.2723 0.2410	0.2662 0.2464	0.2358 0.2458	0.2476	0.2430	Ave		0.2498				5.1		15.0			
Butadiene	0.2418 0.2090	0.2235 0.2132	0.2143 0.2158	0.2111	0.2039	Ave		0.2166				5.4		15.0			
Bromomethane	0.1968 0.1766	0.1914 0.1856	0.1840 0.1858	0.1734	0.1705	Ave		0.1830				4.9		15.0			
Chloroethane	0.1636 0.1618	0.1789 0.1624	0.1702 0.1591	0.1631	0.1613	Ave		0.1650				3.9		15.0			
Dichlorofluoromethane	0.5328 0.4413	0.5021 0.4472	0.4645 0.4354	0.4597	0.4367	Ave		0.4650				7.5		15.0			
Trichlorofluoromethane	0.5032 0.4689	0.4792 0.4734	0.4595 0.4652	0.4629	0.4611	Ave		0.4717				3.0		15.0			
Ethanol	0.0006 0.0003	0.0004 0.0003	0.0003 0.0003	0.0003	0.0003	Lin1	0.0048	0.0003							0.9970		0.9900
Diethyl ether	0.1312 0.1284	0.1287 0.1298	0.1203 0.1270	0.1242	0.1272	Ave		0.1271				2.7		15.0			
Acrolein	+++++ 0.0072	0.0160 0.0073	0.0119 0.0070	0.0065	0.0065	Lin1	0.0202	0.0070							0.9980		0.9900
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.2789 0.2584	0.2752 0.2630	0.2515 0.2664	0.2539	0.2587	Ave		0.2632				3.7		15.0			
1,1-Dichloroethene	0.2390 0.2270	0.2534 0.2350	0.2311 0.2325	0.2279	0.2291	Ave		0.2344				3.7		15.0			
Acetone	0.0083 0.0072	0.0091 0.0069	0.0069 0.0068	0.0074	0.0066	Ave		0.0074				12.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Iodomethane	0.1875 0.3509	0.2050 0.3807	0.2238 0.3640	0.2846	0.3127	Lin1	-0.163	0.3640							0.9970		0.9900
Isopropyl alcohol	0.0067 0.0035	0.0056 0.0036	0.0046 0.0037	0.0028	0.0034	Lin1	0.0142	0.0036							0.9970		0.9900
Carbon disulfide	0.6407 0.5979	0.6204 0.5067	0.5724 0.4534	0.5903	0.5890	Ave		0.5713				11.0		15.0			
Acetonitrile	0.0435 0.0382	0.0414 0.0392	0.0400 0.0379	0.0390	0.0379	Ave		0.0396				4.9		15.0			
3-Chloro-1-propene	0.1712 0.1481	0.1604 +++++	0.1546 +++++	0.1522	0.1481	Ave		0.1558				5.7		15.0			
Methyl acetate	0.0827 0.0956	0.0940 0.0969	0.0907 0.0923	0.0939	0.0946	Ave		0.0926				4.8		15.0			
Methylene Chloride	0.3912 0.2365	0.3234 0.2385	0.2781 0.2319	0.2455	0.2359	Lin2	0.0799	0.2358							1.0000		0.9900
tert-Butyl alcohol (TBA)	0.0059 0.0070	0.0069 0.0071	0.0055 0.0072	0.0062	0.0067	Ave		0.0066				9.4		15.0			
Acrylonitrile	0.0359 0.0346	0.0330 0.0350	0.0329 0.0340	0.0330	0.0334	Ave		0.0340				3.3		15.0			
Methyl tert-butyl ether	0.4972 0.4870	0.4642 0.4960	0.4621 0.4772	0.4669	0.4753	Ave		0.4782				2.9		15.0			
trans-1,2-Dichloroethene	0.3322 0.3105	0.3238 0.3098	0.3146 0.3052	0.3126	0.3075	Ave		0.3145				2.9		15.0			
Hexane	0.3377 0.2993	0.3201 0.3000	0.3080 0.2940	0.2908	0.2975	Ave		0.3059				5.1		15.0			
1,1-Dichloroethane	0.4659 0.4065	0.4282 0.4127	0.4161 0.4023	0.4157	0.4025	Ave		0.4187			0.1000	5.0		15.0			
Vinyl acetate	0.1908 0.1867	0.1863 0.1885	0.1814 0.1794	0.1866	0.1835	Ave		0.1854				2.0		15.0			
Diisopropyl ether	0.6002 0.5935	0.5860 0.6000	0.5837 0.5788	0.5845	0.5865	Ave		0.5891				1.3		15.0			
Chloroprene	0.3513 0.3601	0.3532 0.3656	0.3426 0.3547	0.3637	0.3623	Ave		0.3567				2.2		15.0			
Ethyl tert-butyl ether	0.5447 0.5697	0.5543 0.5778	0.5393 0.5541	0.5537	0.5605	Ave		0.5568				2.2		15.0			
cis-1,2-Dichloroethene	0.4305 0.3598	0.3773 0.3647	0.3967 0.3598	0.3750	0.3649	Ave		0.3786				6.4		15.0			
2,2-Dichloropropane	0.4440 0.4015	0.4124 0.4081	0.3911 0.4001	0.3980	0.3938	Ave		0.4061				4.1		15.0			
2-Butanone (MEK)	0.0116 0.0118	0.0128 0.0123	0.0114 0.0121	0.0116	0.0124	Ave		0.0120				4.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	+++++ 0.0682	+++++ 0.0677	0.0764 0.0618	0.0669	0.0641	Ave		0.0675				7.4		15.0			
Propionitrile	0.0120 0.0118	0.0129 0.0122	0.0121 0.0122	0.0111	0.0121	Ave		0.0121				4.1		15.0			
Methacrylonitrile	0.0602 0.0597	0.0584 0.0601	0.0596 0.0577	0.0620	0.0593	Ave		0.0596				2.2		15.0			
Bromochloromethane	0.1704 0.1628	0.1757 0.1624	0.1633 0.1495	0.1625	0.1631	Ave		0.1637				4.6		15.0			
Chloroform	0.5673 0.4612	0.5396 0.4636	0.4969 0.4415	0.4737	0.4568	Ave		0.4876				9.1		15.0			
Tetrahydrofuran	+++++ 0.0246	+++++ 0.0252	0.0223 0.0252	0.0247	0.0229	Ave		0.0241				5.1		15.0			
1,1,1-Trichloroethane	0.4722 0.4536	0.4767 0.4633	0.4484 0.4504	0.4493	0.4492	Ave		0.4579				2.5		15.0			
Cyclohexane	0.4407 0.3855	0.4230 0.3878	0.4023 0.3811	0.3942	0.3894	Ave		0.4005				5.2		15.0			
Carbon tetrachloride	0.4017 0.4063	0.4004 0.4196	0.3804 0.4118	0.3836	0.3936	Ave		0.3997				3.4		15.0			
1,1-Dichloropropene	0.3391 0.3296	0.3494 0.3364	0.3234 0.3300	0.3381	0.3288	Ave		0.3344				2.4		15.0			
Isobutanol	0.0061 0.0065	0.0075 0.0067	0.0053 0.0068	0.0057	0.0064	Ave		0.0064				11.0		15.0			
Benzene	1.0912 0.9936	1.0802 1.0031	1.0263 0.9355	1.0202	0.9995	Ave		1.0187				4.9		15.0			
t-Amyl alcohol	0.0053 0.0055	0.0055 0.0057	0.0050 0.0058	0.0049	0.0052	Ave		0.0054				6.1		15.0			
1,2-Dichloroethane	0.3315 0.2870	0.3059 0.2879	0.2973 0.2767	0.2910	0.2856	Ave		0.2954				5.7		15.0			
Tert-amyl methyl ether	0.5035 0.5072	0.5116 0.5216	0.4617 0.4994	0.5007	0.5088	Ave		0.5018				3.5		15.0			
Heptane	0.3023 0.2649	0.2832 0.2660	0.2712 0.2646	0.2597	0.2672	Ave		0.2724				5.1		15.0			
n-Butanol	+++++ 0.0017	+++++ 0.0017	0.0020 0.0019	0.0015	0.0016	Ave		0.0017				11.0		15.0			
Trichloroethene	0.3239 0.3113	0.3330 0.3172	0.3038 0.3128	0.3095	0.3062	Ave		0.3147				3.1		15.0			
Ethyl acrylate	+++++ 0.1270	+++++ 0.1326	0.0824 0.1334	0.0920	0.1125	Lin1	-0.168	0.1325							0.9980		0.9900
Methylcyclohexane	0.4780 0.4518	0.4838 0.4589	0.4534 0.4515	0.4463	0.4470	Ave		0.4588				3.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloropropane	0.2447 0.2255	0.2219 0.2301	0.2184 0.2254	0.2172	0.2249	Ave		0.2260				3.8		15.0			
Dibromomethane	0.1250 0.1182	0.1221 0.1213	0.1213 0.1165	0.1187	0.1177	Ave		0.1201				2.3		15.0			
Methyl methacrylate	0.0950 0.1047	0.0918 0.1059	0.0948 0.1005	0.1008	0.1016	Ave		0.0994				5.1		15.0			
1,4-Dioxane	+++++ 0.0006	+++++ 0.0006	0.0005 0.0007	0.0006	0.0005	Ave		0.0006				13.0		15.0			
Bromodichloromethane	0.3243 0.3372	0.3275 0.3503	0.3133 0.3456	0.3212	0.3283	Ave		0.3310				3.8		15.0			
2-Nitropropane	+++++ 0.0265	0.0403 0.0300	0.0278 0.0312	0.0229	0.0240	Lin1	-0.007	0.0298							0.9930		0.9900
2-Chloroethyl vinyl ether	0.1067 0.1107	0.1063 0.1095	0.1030 0.1061	0.1019	0.1122	Ave		0.1070				3.3		15.0			
cis-1,3-Dichloropropene	0.4128 0.4696	0.4330 0.4671	0.4446 0.4511	0.4465	0.4607	Ave		0.4482				4.2		15.0			
4-Methyl-2-pentanone (MIBK)	0.0477 0.0503	0.0452 0.0492	0.0477 0.0467	0.0494	0.0514	Ave		0.0485				4.1		15.0			
Toluene	1.7030 1.5037	1.7485 1.4439	1.5819 1.3268	1.5546	1.5561	Ave		1.5523				8.7		15.0			
trans-1,3-Dichloropropene	0.3127 0.3624	0.3229 0.3614	0.3293 0.3520	0.3384	0.3505	Ave		0.3412				5.4		15.0			
Ethyl methacrylate	0.2697 0.2433	0.3271 0.2412	0.2241 0.2265	0.2345	0.2463	Ave		0.2516				13.0		15.0			
1,1,2-Trichloroethane	0.2607 0.2210	0.2370 0.2165	0.2173 0.2038	0.2260	0.2271	Ave		0.2262				7.5		15.0			
Tetrachloroethene	0.3979 0.4356	0.4747 0.4347	0.4499 0.4161	0.4387	0.4387	Ave		0.4358				5.2		15.0			
1,3-Dichloropropane	0.3406 0.3525	0.3434 0.3484	0.3659 0.3351	0.3489	0.3571	Ave		0.3490				2.8		15.0			
2-Hexanone	0.0308 0.0431	0.0417 0.0418	0.0380 0.0405	0.0408	0.0445	Ave		0.0401				11.0		15.0			
Chlorodibromomethane	0.1635 0.2116	0.1619 0.2228	0.1685 0.2262	0.1875	0.1958	Lin2	-0.028	0.2050							0.9910		0.9900
n-Butyl acetate	0.1329 0.1015	0.1014 0.1051	0.0827 0.1004	0.1030	0.1036	Ave		0.1038				13.0		15.0			
1,2-Dibromoethane (EDB)	0.1968 0.2084	0.1958 0.2103	0.1916 0.2078	0.2024	0.2072	Ave		0.2025				3.5		15.0			
1-Chlorohexane	0.4307 0.3653	0.3812 0.3832	0.3698 0.3801	0.3571	0.3524	Ave		0.3775				6.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Chlorobenzene	0.9364 0.9932	1.0410 0.9903	0.9957 0.9473	0.9819	0.9798	Ave		0.9832			0.3000	3.2		15.0			
1,1,1,2-Tetrachloroethane	0.3102 0.3546	0.3103 0.3581	0.2950 0.3586	0.3295	0.3352	Ave		0.3315				7.4		15.0			
Ethylbenzene	1.6798 1.6649	1.6436 1.6461	1.5985 1.5309	1.6486	1.6593	Ave		1.6340				2.9		15.0			
m,p-Xylene	1.2988 1.3466	1.3946 1.3052	1.2953 1.2422	1.3241	1.3328	Ave		1.3175				3.4		15.0			
o-Xylene	1.2575 1.3436	1.3303 1.3406	1.2625 1.2557	1.3080	1.3389	Ave		1.3046				3.0		15.0			
Styrene	0.8675 1.1194	0.9497 1.1156	0.9970 1.0470	1.0626	1.1003	Ave		1.0324				8.6		15.0			
Bromoform	0.1128 0.1571	0.1159 +++++	0.1129 +++++	0.1267	0.1380	Ave		0.1272			0.1000	14.0		15.0			
Isopropylbenzene	1.6423 1.7753	1.7678 1.7467	1.6991 1.6167	1.7235	1.7556	Ave		1.7159				3.4		15.0			
Cyclohexanone	+++++ 0.0021	+++++ 0.0022	0.0036 0.0024	0.0022	0.0021	Lin2	0.0290	0.0021							0.9900		0.9900
Bromobenzene	0.7493 0.8904	1.0643 0.9087	1.0030 0.8962	0.8898	0.8867	Ave		0.9110				10.0		15.0			
1,1,2,2-Tetrachloroethane	0.3400 0.3605	0.3548 0.3666	0.3603 0.3496	0.3621	0.3625	Ave		0.3571			0.3000	2.4		15.0			
1,2,3-Trichloropropane	0.1313 0.1250	0.1322 0.1283	0.1153 0.1211	0.1225	0.1267	Ave		0.1253				4.5		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.0905	+++++ 0.0964	0.0466 0.0950	0.1072	0.0856	Lin1	-0.076	0.0955							0.9980		0.9900
N-Propylbenzene	3.1202 3.3238	3.3423 3.2961	3.2030 3.0325	3.3567	3.3658	Ave		3.2550				3.8		15.0			
2-Chlorotoluene	1.8395 1.9876	2.3217 1.9835	2.1544 1.8782	2.0581	2.0151	Ave		2.0298				7.6		15.0			
1,3,5-Trimethylbenzene	2.5315 2.5118	2.5138 2.5311	2.3820 2.3338	2.4987	2.5202	Ave		2.4779				3.1		15.0			
4-Chlorotoluene	2.3462 2.3548	2.1488 2.3628	2.1865 2.1906	2.4022	2.3863	Ave		2.2973				4.5		15.0			
tert-Butylbenzene	2.2931 2.2195	2.2852 2.2188	2.1024 2.1278	2.1877	2.2153	Ave		2.2062				3.0		15.0			
1,2,4-Trimethylbenzene	2.5508 2.5615	2.4975 2.5679	2.3972 2.3930	2.5520	2.5600	Ave		2.5100				3.0		15.0			
sec-Butylbenzene	3.1247 3.0946	3.1598 3.1047	3.0090 2.8916	3.0591	3.1046	Ave		3.0685				2.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,3-Dichlorobenzene	1.3335 1.3988	1.3420 1.4328	1.2894 1.3849	1.3456	1.3688	Ave		1.3620				3.2		15.0			
p-Isopropyltoluene	2.6811 2.7834	2.7416 2.8092	2.6298 2.6011	2.7482	2.7875	Ave		2.7227				2.8		15.0			
1,4-Dichlorobenzene	1.4946 1.4344	1.4685 1.4587	1.4048 1.4009	1.4517	1.4365	Ave		1.4438				2.2		15.0			
1,2,3-Trimethylbenzene	2.3365 2.4547	2.4706 2.4658	2.3545 2.2996	2.4463	2.4530	Ave		2.4101				2.8		15.0			
Benzyl chloride	0.1026 0.4133	0.2459 0.4333	0.2540 0.4281	0.3257	0.3712	Lin1	-0.224	0.4248							0.9980		0.9900
1,2-Dichlorobenzene	1.1971 1.2171	1.1652 1.2497	1.1523 1.1833	1.2281	1.2308	Ave		1.2029				2.8		15.0			
n-Butylbenzene	2.0058 2.1847	1.8707 2.2216	1.9158 2.0875	2.0855	2.1505	Ave		2.0653				6.1		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0692	0.0478 0.0744	0.0506 0.0747	0.0615	0.0653	Lin2	-0.025	0.0695							0.9940		0.9900
1,3,5-Trichlorobenzene	0.6794 0.8520	0.7388 0.8806	0.7401 0.8900	0.7960	0.8262	Ave		0.8004				9.4		15.0			
1,2,4-Trichlorobenzene	0.4639 0.6440	0.5261 0.6389	0.5487 0.6536	0.5837	0.6200	Ave		0.5849				12.0		15.0			
Hexachlorobutadiene	0.2654 0.3263	0.3030 0.3403	0.3093 0.3567	0.2957	0.3112	Ave		0.3135				9.0		15.0			
Naphthalene	0.8133 0.9970	0.8246 1.0204	0.8649 1.0099	0.8772	0.9671	Ave		0.9218				9.3		15.0			
1,2,3-Trichlorobenzene	0.3561 0.4739	0.4226 0.4849	0.4369 0.4934	0.4284	0.4534	Ave		0.4437				9.9		15.0			
Dibromofluoromethane (Surr)	0.2491 0.2502	0.2506 0.2478	0.2498 0.2462	0.2485	0.2457	Ave		0.2485				0.7		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2325 0.2276	0.2330 0.2222	0.2338 0.2230	0.2414	0.2283	Ave		0.2302				2.7		15.0			
Toluene-d8 (Surr)	1.2978 1.2578	1.3408 1.2289	1.3293 1.1948	1.2975	1.2898	Ave		1.2796				3.9		15.0			
4-Bromofluorobenzene (Surr)	0.8168 0.7899	0.8315 0.7901	0.8018 0.7882	0.8142	0.7925	Ave		0.8031				2.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-233414/2	031315-02.D
Level 2	STD001 490-233414/3	031315-03.D
Level 3	STD002 490-233414/4	031315-04.D
Level 4	STD010 490-233414/5	031315-05.D
Level 5	STD020 490-233414/6	031315-06.D
Level 6	ICIS 490-233414/7	031315-07.D
Level 7	STD100 490-233414/8	031315-08.D
Level 8	STD200 490-233414/9	031315-09.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	2336 217650	4757 444641	8959 882104	43054	87595	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chloromethane	FB	Ave	1682 161586	3469 329939	6732 680591	32283	65073	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Vinyl chloride	FB	Ave	2117 196931	4173 405027	7431 821146	39104	78779	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Butadiene	FB	Ave	1880 170766	3503 350514	6755 720888	33346	66123	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Bromomethane	FB	Ave	1530 144277	3000 305154	5800 620647	27391	55268	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chloroethane	FB	Ave	1272 132211	2804 266957	5364 531464	25753	52291	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Dichlorofluoromethane	FB	Ave	4142 360542	7871 735190	14638 1454339	72591	141598	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Trichlorofluoromethane	FB	Ave	3912 383087	7512 778195	14480 1553946	73108	149489	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethanol	FB	Lin1	221 11160	324 22743	451 50691	1978	4771	25.0 2500	50.0 5000	100 10000	500	1000
Diethyl ether	FB	Ave	1020 104877	2017 213404	3791 424118	19608	41235	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Acrolein	FB	Lin1	+++++ 14798	628 29859	937 58530	2554	5284	+++++ 125	2.50 250	5.00 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	2168 211144	4314 432381	7927 889783	40094	83863	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1-Dichloroethene	FB	Ave	1858 185476	3972 386374	7284 776577	35994	74292	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Acetone	FB	Ave	324 29427	713 56658	1091 113934	5868	10665	2.50 250	5.00 500	10.0 1000	50.0	100
Iodomethane	FB	Lin1	1458 286722	3214 625869	7054 1216028	44943	101386	0.500 50.0	1.00 100	2.00 200	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Isopropyl alcohol	FB	Lin1	520 28753	880 59169	1461 123414	4437	11149	5.00 500	10.0 1000	20.0 2000	100	200
Carbon disulfide	FB	Ave	4981 488520	9725 832887	18040 1514433	93227	190950	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Acetonitrile	FB	Ave	3383 312201	6483 644008	12622 1265883	61650	122827	5.00 500	10.0 1000	20.0 2000	100	200
3-Chloro-1-propene	FB	Ave	1331 121016	2515 +++++	4871 +++++	24038	48010	0.500 50.0	1.00 +++++	2.00 +++++	10.0	20.0
Methyl acetate	FB	Ave	3216 390362	7367 796326	14292 1542386	74130	153317	2.50 250	5.00 500	10.0 1000	50.0	100
Methylene Chloride	FB	Lin2	3041 193233	5069 392045	8766 774519	38778	76472	0.500 50.0	1.00 100	2.00 200	10.0	20.0
tert-Butyl alcohol (TBA)	FB	Ave	456 57029	1075 116292	1739 241015	9792	21693	5.00 500	10.0 1000	20.0 2000	100	200
Acrylonitrile	FB	Ave	2794 282919	5174 576137	10355 1135662	52049	108445	5.00 500	10.0 1000	20.0 2000	100	200
Methyl tert-butyl ether	FB	Ave	3865 397898	7277 815357	14564 1593988	73742	154098	0.500 50.0	1.00 100	2.00 200	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	2583 253655	5076 509270	9914 1019459	49361	99697	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Hexane	FB	Ave	2625 244507	5018 493155	9707 982012	45925	96446	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1-Dichloroethane	FB	Ave	3622 332144	6712 678364	13115 1344002	65653	130498	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Vinyl acetate	FB	Ave	2966 305110	5842 619626	11435 1198609	58949	118998	1.00 100	2.00 200	4.00 400	20.0	40.0
Diisopropyl ether	FB	Ave	4666 484919	9186 986338	18395 1933509	92301	190163	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chloroprene	FB	Ave	2731 294198	5537 601035	10796 1184774	57436	117455	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethyl tert-butyl ether	FB	Ave	4235 465464	8689 949789	16997 1850894	87447	181740	0.500 50.0	1.00 100	2.00 200	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	3347 293926	5915 599564	12502 1201771	59226	118300	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	3452 328019	6465 670849	12325 1336528	62860	127685	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Butanone (MEK)	FB	Ave	449 48280	1000 101091	1791 201348	9143	20088	2.50 250	5.00 500	10.0 1000	50.0	100
Ethyl acetate	FB	Ave	+++++ 111389	+++++ 222497	4814 412753	21123	41535	+++++ 100	+++++ 200	4.00 400	20.0	40.0
Propionitrile	FB	Ave	932 96334	2019 200692	3818 409109	17569	39343	5.00 500	10.0 1000	20.0 2000	100	200

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Methacrylonitrile	FB	Ave	4682 488058	9159 988338	18782 1926960	97905	192273	5.00 500	10.0 1000	20.0 2000	100	200
Bromochloromethane	FB	Ave	1325 133042	2755 266999	5146 499414	25665	52881	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chloroform	FB	Ave	4410 376799	8459 762151	15661 1474803	74812	148105	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Tetrahydrofuran	FB	Ave	+++++ 40237	+++++ 82742	1405 168114	7790	14838	+++++ 100	+++++ 200	4.00 400	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	3671 370640	7473 761560	14131 1504596	70950	145630	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Cyclohexane	FB	Ave	3426 314967	6631 637399	12679 1273026	62247	126236	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Carbon tetrachloride	FB	Ave	3123 331918	6276 689812	11989 1375487	60586	127622	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1-Dichloropropene	FB	Ave	2636 269296	5478 553058	10191 1102371	53395	106602	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Isobutanol	FB	Ave	476 52748	1177 109965	1682 227267	9001	20672	5.00 500	10.0 1000	20.0 2000	100	200
Benzene	FB	Ave	8483 811783	16933 1648980	32344 3124956	161120	324048	0.500 50.0	1.00 100	2.00 200	10.0	20.0
t-Amyl alcohol	FB	Ave	411 44989	867 94047	1581 193350	7719	16718	5.00 500	10.0 1000	20.0 2000	100	200
1,2-Dichloroethane	FB	Ave	2577 234498	4795 473336	9369 924373	45957	92613	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Tert-amyl methyl ether	FB	Ave	3914 414425	8020 857445	14552 1668375	79076	164960	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Heptane	FB	Ave	2350 216454	4440 437181	8546 883760	41008	86646	0.500 50.0	1.00 100	2.00 200	10.0	20.0
n-Butanol	FB	Ave	+++++ 34737	+++++ 71332	1607 156110	5928	12973	+++++ 1250	+++++ 2500	50.0 5000	250	500
Trichloroethene	FB	Ave	2518 254313	5220 521430	9575 1044813	48880	99292	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethyl acrylate	FB	Lin1	+++++ 103764	+++++ 217962	2598 445561	14535	36463	+++++ 50.0	+++++ 100	2.00 200	10.0	20.0
Methylcyclohexane	FB	Ave	3716 369114	7584 754379	14289 1508112	70486	144928	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2-Dichloropropane	FB	Ave	1902 184231	3479 378218	6883 753017	34294	72923	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Dibromomethane	FB	Ave	972 96567	1914 199407	3824 389287	18747	38170	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Methyl methacrylate	FB	Ave	1477 171101	2878 348212	5973 671145	31832	65908	1.00 100	2.00 200	4.00 400	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	FB	Ave	+++++ 9186	+++++ 19931	292 44418	1971	3398	+++++ 1000	+++++ 2000	40.0 4000	200	400
Bromodichloromethane	FB	Ave	2521 275536	5134 575804	9873 1154594	50730	106440	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Nitropropane	FB	Lin1	+++++ 43335	1262 98794	1751 208338	7241	15558	+++++ 100	2.00 200	4.00 400	20.0	40.0
2-Chloroethyl vinyl ether	CBZ	Ave	638 69374	1245 143000	2427 285477	12261	27119	0.500 50.0	1.00 100	2.00 200	10.0	20.0
cis-1,3-Dichloropropene	CBZ	Ave	2467 294371	5069 610296	10476 1213691	53720	111380	0.500 50.0	1.00 100	2.00 200	10.0	20.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	1426 157642	2648 321584	5623 628223	29735	62088	2.50 250	5.00 500	10.0 1000	50.0	100
Toluene	CBZ	Ave	10179 942573	20471 1886416	37275 3569510	187062	376218	0.500 50.0	1.00 100	2.00 200	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	1869 227158	3780 472199	7759 947103	40718	84741	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethyl methacrylate	CBZ	Ave	1612 152494	3830 315071	5281 609362	28214	59546	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	1558 138564	2775 282895	5121 548374	27191	54916	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Tetrachloroethene	CBZ	Ave	2378 273088	5558 567915	10602 1119580	52783	106072	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	2036 220987	4021 455168	8622 901436	41980	86349	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Hexanone	CBZ	Ave	919 135176	2439 272961	4481 544344	24522	53744	2.50 250	5.00 500	10.0 1000	50.0	100
Chlorodibromomethane	CBZ	Lin2	977 132630	1895 291107	3971 608493	22560	47347	0.500 50.0	1.00 100	2.00 200	10.0	20.0
n-Butyl acetate	FB	Ave	1033 82957	1589 172734	2607 335285	16267	33594	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2-Dibromoethane (EDB)	CBZ	Ave	1176 130627	2292 274714	4514 559052	24353	50089	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1-Chlorohexane	FB	Ave	3348 298490	5976 629905	11653 1269779	56396	114256	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chlorobenzene	CBZ	Ave	5597 622600	12188 1293839	23462 2548620	118143	236887	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	1854 222262	3633 467882	6952 964820	39652	81053	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethylbenzene	CBZ	Ave	10040 1043654	19243 2150508	37666 4118659	198370	401179	0.500 50.0	1.00 100	2.00 200	10.0	20.0
m,p-Xylene	CBZ	Ave	7763 844133	16328 1705187	30522 3341869	159327	322239	0.500 50.0	1.00 100	2.00 200	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
o-Xylene	CBZ	Ave	7516 842211	15575 1751471	29749 3378238	157391	323716	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Styrene	CBZ	Ave	5185 701693	11119 1457441	23494 2816759	127853	266023	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Bromoform	CBZ	Ave	674 98495	1357 +++++	2660 +++++	15249	33363	0.500 50.0	1.00 +++++	2.00 +++++	10.0	20.0
Isopropylbenzene	CBZ	Ave	9816 1112864	20698 2282034	40038 4349600	207383	424457	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Cyclohexanone	FB	Lin2	+++++ 16960	+++++ 35600	1133 81666	3446	6707	+++++ 500	+++++ 1000	20.0 2000	100	200
Bromobenzene	DCB	Ave	2329 326650	6765 681896	13008 1386651	60147	124081	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	1057 132243	2255 275129	4673 540855	24480	50729	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	408 45855	840 96273	1496 187391	8278	17736	0.500 50.0	1.00 100	2.00 200	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Lin1	+++++ 33211	+++++ 72323	605 146925	7247	11972	+++++ 50.0	+++++ 100	2.00 200	10.0	20.0
N-Propylbenzene	DCB	Ave	9699 1219426	21244 2473471	41541 4691907	226903	471002	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Chlorotoluene	DCB	Ave	5718 729216	14757 1488487	27942 2905942	139118	281990	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	7869 921509	15978 1899439	30894 3610855	168902	352680	0.500 50.0	1.00 100	2.00 200	10.0	20.0
4-Chlorotoluene	DCB	Ave	7293 863936	13658 1773144	28358 3389265	162378	333934	0.500 50.0	1.00 100	2.00 200	10.0	20.0
tert-Butylbenzene	DCB	Ave	7128 814291	14525 1665059	27267 3292185	147884	310012	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	7929 939753	15874 1926998	31091 3702454	172508	358245	0.500 50.0	1.00 100	2.00 200	10.0	20.0
sec-Butylbenzene	DCB	Ave	9713 1135350	20084 2329819	39025 4473875	206786	434459	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	4145 513186	8530 1075213	16723 2142736	90961	191549	0.500 50.0	1.00 100	2.00 200	10.0	20.0
p-Isopropyltoluene	DCB	Ave	8334 1021157	17426 2108133	34107 4024426	185770	390078	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	4646 526257	9334 1094632	18220 2167516	98127	201024	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,3-Trimethylbenzene	DCB	Ave	7263 900570	15703 1850414	30537 3557965	165359	343275	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Benzyl chloride	CBZ	Lin1	613 259068	2879 566139	5985 1151750	39187	89739	0.500 50.0	1.00 100	2.00 200	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2-Dichlorobenzene	DCB	Ave	3721 446511	7406 937799	14945 1830800	83016	172233	0.500 50.0	1.00 100	2.00 200	10.0	20.0
n-Butylbenzene	DCB	Ave	6235 801529	11890 1667140	24847 3229732	140976	300945	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Lin2	+++++ 25389	304 55813	656 115606	4156	9137	+++++ 50.0	1.00 100	2.00 200	10.0	20.0
1,3,5-Trichlorobenzene	DCB	Ave	2112 312587	4696 660854	9599 1376992	53810	115620	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	1442 236258	3344 479477	7117 1011235	39457	86765	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Hexachlorobutadiene	DCB	Ave	825 119697	1926 255393	4011 551899	19990	43547	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Naphthalene	DCB	Ave	2528 365761	5241 765727	11218 1562504	59295	135338	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	1107 173875	2686 363864	5666 763347	28956	63450	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	96822 102225	98208 101841	98390 102794	98118	99577	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	90360 92961	91297 91312	92088 93106	95301	92511	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBZ	Ave	387852 394236	392444 401374	391539 401809	390318	389794	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	DCB	Ave	126949 144906	132128 148227	129995 152438	137599	138627	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: ICV 490-238076/15 Calibration Date: 04/01/2015 18:26

Instrument ID: HP25 Calib Start Date: 04/01/2015 13:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2015 17:04

Lab File ID: 040115-15.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2468	0.2733		55.4	50.0	10.7	30.0
Chloromethane	Ave	0.2786	0.2734	0.1000	49.1	50.0	-1.9	30.0
Vinyl chloride	Ave	0.2932	0.2756		47.0	50.0	-6.0	30.0
Butadiene	Ave	0.2630	0.2491		47.4	50.0	-5.3	30.0
Bromomethane	Ave	0.1587	0.1595		50.3	50.0	0.5	30.0
Chloroethane	Ave	0.1799	0.1647		45.8	50.0	-8.5	30.0
Dichlorofluoromethane	Ave	0.4438	0.4051		45.6	50.0	-8.7	30.0
Trichlorofluoromethane	Ave	0.3832	0.3560		46.5	50.0	-7.1	30.0
Ethanol	Ave	0.0006	0.0005		1987	2500	-20.5	30.0
Diethyl ether	Ave	0.1401	0.1316		47.0	50.0	-6.1	30.0
Acrolein	Ave	0.0112	0.0117		131	125	4.9	30.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2384	0.2354		49.4	50.0	-1.3	30.0
1,1-Dichloroethene	Ave	0.2249	0.2134		47.4	50.0	-5.1	30.0
Acetone	Lin2		0.0084		230	250	-8.1	30.0
Iodomethane	Ave	0.2888	0.3104		53.7	50.0	7.5	30.0
Isopropyl alcohol	Lin1		0.0037		430	500	-14.0	30.0
Carbon disulfide	Ave	0.6094	0.6148		50.4	50.0	0.9	30.0
3-Chloro-1-propene	Ave	0.1339	0.1269		47.4	50.0	-5.2	30.0
Acetonitrile	Ave	0.0465	0.0432		464	500	-7.1	30.0
Methyl acetate	Lin2		0.1048		306	250	22.3	30.0
Methylene Chloride	Lin2		0.2171		49.8	50.0	-0.5	30.0
tert-Butyl alcohol (TBA)	Ave	0.0074	0.0065		444	500	-11.2	30.0
Acrylonitrile	Ave	0.0443	0.0413		466	500	-6.8	30.0
trans-1,2-Dichloroethene	Ave	0.3110	0.3134		50.4	50.0	0.8	30.0
Methyl tert-butyl ether	Ave	0.4451	0.4207		47.3	50.0	-5.5	30.0
Hexane	Ave	0.3744	0.3757		50.2	50.0	0.4	30.0
1,1-Dichloroethane	Ave	0.4379	0.4220	0.1000	48.2	50.0	-3.6	30.0
Vinyl acetate	Ave	0.4078	0.2257		55.4	100	-44.7*	30.0
Diisopropyl ether	Ave	0.6612	0.6504		49.2	50.0	-1.6	30.0
Chloroprene	Ave	0.3600	0.3638		50.5	50.0	1.1	30.0
Ethyl tert-butyl ether	Ave	0.5368	0.5267		49.1	50.0	-1.9	30.0
2,2-Dichloropropane	Ave	0.3600	0.3347		46.5	50.0	-7.0	30.0
cis-1,2-Dichloroethene	Ave	0.3574	0.3503		49.0	50.0	-2.0	30.0
2-Butanone (MEK)	Ave	0.0134	0.0121		225	250	-9.9	30.0
Propionitrile	Ave	0.0147	0.0140		475	500	-5.1	30.0
Ethyl acetate	Ave	0.0996	0.0703		70.6	100	-29.4	30.0
Bromochloromethane	Ave	0.1317	0.1226		46.5	50.0	-7.0	30.0
Methacrylonitrile	Ave	0.0672	0.0667		496	500	-0.8	30.0
Tetrahydrofuran	Lin2		0.0236		77.6	100	-22.4	30.0
Chloroform	Lin2		0.3831		48.8	50.0	-2.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: ICV 490-238076/15 Calibration Date: 04/01/2015 18:26

Instrument ID: HP25 Calib Start Date: 04/01/2015 13:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2015 17:04

Lab File ID: 040115-15.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.3552	0.3576		50.3	50.0	0.7	30.0
Cyclohexane	Ave	0.3771	0.4002		53.1	50.0	6.1	30.0
1,1-Dichloropropene	Ave	0.3121	0.3275		52.5	50.0	4.9	30.0
Carbon tetrachloride	Ave	0.3032	0.3151		52.0	50.0	3.9	30.0
Isobutanol	Ave	0.0029	0.0026		1088	1250	-13.0	30.0
Benzene	Ave	0.9309	0.9434		50.7	50.0	1.3	30.0
1,2-Dichloroethane	Ave	0.2567	0.2494		48.6	50.0	-2.8	30.0
t-Amyl alcohol	Ave	0.0052	0.0050		483	500	-3.5	30.0
Tert-amyl methyl ether	Ave	0.4234	0.4488		53.0	50.0	6.0	30.0
Heptane	Ave	0.3073	0.3223		52.4	50.0	4.9	30.0
n-Butanol	Lin1		0.0014		991	1250	-20.7	30.0
Trichloroethene	Ave	0.2631	0.2765		52.5	50.0	5.1	30.0
Ethyl acrylate	Lin2		0.1271		48.1	50.0	-3.9	
Methylcyclohexane	Ave	0.4170	0.4552		54.6	50.0	9.2	30.0
1,2-Dichloropropane	Ave	0.2199	0.2229		50.7	50.0	1.4	30.0
Dibromomethane	Ave	0.1096	0.1060		48.4	50.0	-3.2	30.0
Methyl methacrylate	Ave	0.0969	0.1016		105	100	4.9	30.0
1,4-Dioxane	Lin1		0.0006		749	1000	-25.1	30.0
Bromodichloromethane	Ave	0.2807	0.2840		50.6	50.0	1.1	30.0
2-Nitropropane	Ave	0.0300	0.0281		93.4	100	-6.6	30.0
2-Chloroethyl vinyl ether	Lin2		0.1138		52.2	50.0	4.4	30.0
cis-1,3-Dichloropropene	Ave	0.3953	0.4244		53.7	50.0	7.4	30.0
4-Methyl-2-pentanone (MIBK)	Lin2		0.0495		250	250	0.1	30.0
Toluene	Ave	1.351	1.364		50.5	50.0	1.0	30.0
trans-1,3-Dichloropropene	Ave	0.3071	0.3373		54.9	50.0	9.9	30.0
Ethyl methacrylate	Lin2		0.2221		50.9	50.0	1.8	30.0
1,1,2-Trichloroethane	Ave	0.2095	0.2012		48.0	50.0	-3.9	30.0
Tetrachloroethene	Ave	0.3837	0.3856		50.3	50.0	0.5	30.0
1,3-Dichloropropane	Ave	0.3410	0.3338		49.0	50.0	-2.1	30.0
2-Hexanone	Lin2		0.0423		241	250	-3.6	30.0
Chlorodibromomethane	Ave	0.1842	0.1898		51.5	50.0	3.0	30.0
n-Butyl acetate	Lin1		0.0962		35.1	50.0	-29.9	30.0
1,2-Dibromoethane (EDB)	Ave	0.1891	0.1918		50.7	50.0	1.4	30.0
1-Chlorohexane	Ave	0.3482	0.3638		52.2	50.0	4.5	30.0
Chlorobenzene	Ave	0.8824	0.8701	0.3000	49.3	50.0	-1.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.2944	0.2971		50.5	50.0	0.9	30.0
Ethylbenzene	Ave	1.361	1.481		54.4	50.0	8.8	30.0
m,p-Xylene	Ave	1.076	1.169		54.3	50.0	8.7	30.0
o-Xylene	Ave	1.065	1.152		54.1	50.0	8.2	30.0
Styrene	Lin2		0.9385		51.7	50.0	3.4	30.0
Bromoform	Ave	0.1220	0.1333	0.1000	54.6	50.0	9.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: ICV 490-238076/15 Calibration Date: 04/01/2015 18:26

Instrument ID: HP25 Calib Start Date: 04/01/2015 13:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2015 17:04

Lab File ID: 040115-15.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	1.289	1.507		58.5	50.0	17.0	30.0
Cyclohexanone	Lin1		0.0018		171	500	-65.8*	30.0
Bromobenzene	Ave	0.9311	0.9238		49.6	50.0	-0.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3885	0.3822	0.3000	49.2	50.0	-1.6	30.0
1,2,3-Trichloropropane	Lin2		0.1121		48.7	50.0	-2.5	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0847		45.3	50.0	-9.4	30.0
N-Propylbenzene	Ave	2.654	3.113		58.7	50.0	17.3	30.0
2-Chlorotoluene	Ave	1.853	1.838		49.6	50.0	-0.8	30.0
1,3,5-Trimethylbenzene	Ave	1.991	2.191		55.0	50.0	10.0	30.0
4-Chlorotoluene	Ave	2.036	2.133		52.4	50.0	4.8	30.0
tert-Butylbenzene	Ave	1.679	1.920		57.2	50.0	14.4	30.0
1,2,4-Trimethylbenzene	Ave	1.990	2.202		55.3	50.0	10.6	30.0
sec-Butylbenzene	Ave	2.407	2.735		56.8	50.0	13.6	30.0
1,3-Dichlorobenzene	Ave	1.187	1.265		53.3	50.0	6.5	30.0
p-Isopropyltoluene	Ave	2.053	2.340		57.0	50.0	14.0	30.0
1,4-Dichlorobenzene	Ave	1.320	1.304		49.4	50.0	-1.2	30.0
1,2,3-Trimethylbenzene	Ave	2.092	2.209		52.8	50.0	5.6	30.0
Benzyl chloride	Lin1		0.3458		47.2	50.0	-5.6	30.0
1,2-Dichlorobenzene	Ave	1.117	1.168		52.3	50.0	4.5	30.0
n-Butylbenzene	Lin2		1.909		54.7	50.0	9.4	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0673		50.1	50.0	0.1	30.0
1,3,5-Trichlorobenzene	Ave	0.7739	0.8139		52.6	50.0	5.2	30.0
1,2,4-Trichlorobenzene	Lin2		0.6521		49.0	50.0	-2.1	30.0
Hexachlorobutadiene	Ave	0.2836	0.2837		50.0	50.0	0.0	30.0
Naphthalene	Lin1		1.137		46.2	50.0	-7.5	30.0
1,2,3-Trichlorobenzene	Lin2		0.5380		46.5	50.0	-6.9	30.0
Dibromofluoromethane (Surr)	Ave	0.2247	0.2286		25.4	25.0	1.7	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2238	0.2154		24.1	25.0	-3.8	30.0
Toluene-d8 (Surr)	Ave	1.263	1.259		24.9	25.0	-0.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8339	0.8470		25.4	25.0	1.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCVIS 490-240821/2 Calibration Date: 04/13/2015 10:44

Instrument ID: HP25 Calib Start Date: 04/01/2015 13:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2015 17:04

Lab File ID: 041315-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2468	0.2655		67.2	62.5	7.6	20.0
Chloromethane	Ave	0.2786	0.2810	0.1000	63.0	62.5	0.8	20.0
Vinyl chloride	Ave	0.2932	0.3036		64.7	62.5	3.5	20.0
Butadiene	Ave	0.2630	0.2734		65.0	62.5	4.0	20.0
Bromomethane	Ave	0.1587	0.1486		58.5	62.5	-6.4	20.0
Chloroethane	Ave	0.1799	0.1715		59.6	62.5	-4.6	20.0
Dichlorofluoromethane	Ave	0.4438	0.4209		59.3	62.5	-5.2	20.0
Trichlorofluoromethane	Ave	0.3832	0.3558		58.0	62.5	-7.2	20.0
Ethanol	Ave	0.0006	0.0009		2675	2000	33.7	40.0
Diethyl ether	Ave	0.1401	0.1386		49.5	50.0	-1.1	20.0
Acrolein	Ave	0.0112	0.0077		85.6	125	-31.5	40.0
1,1-Dichloroethene	Ave	0.2249	0.2047		45.5	50.0	-9.0	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2384	0.2140		44.9	50.0	-10.2	20.0
Acetone	Lin2		0.0102		280	250	12.0	20.0
Iodomethane	Ave	0.2888	0.2650		45.9	50.0	-8.2	20.0
Isopropyl alcohol	Lin1		0.0047		557	500	11.4	20.0
Carbon disulfide	Ave	0.6094	0.5597		45.9	50.0	-8.2	20.0
3-Chloro-1-propene	Ave	0.1339	0.1212		45.2	50.0	-9.5	20.0
Acetonitrile	Ave	0.0465	0.0439		472	500	-5.6	20.0
Methyl acetate	Lin2		0.0845		246	250	-1.5	20.0
Methylene Chloride	Lin2		0.2058		47.2	50.0	-5.7	20.0
tert-Butyl alcohol (TBA)	Ave	0.0074	0.0077		523	500	4.6	40.0
Acrylonitrile	Ave	0.0443	0.0419		473	500	-5.4	20.0
trans-1,2-Dichloroethene	Ave	0.3110	0.2786		44.8	50.0	-10.4	20.0
Methyl tert-butyl ether	Ave	0.4451	0.4126		46.4	50.0	-7.3	20.0
Hexane	Ave	0.3744	0.3234		43.2	50.0	-13.6	20.0
1,1-Dichloroethane	Ave	0.4379	0.3867	0.1000	44.2	50.0	-11.7	20.0
Diisopropyl ether	Ave	0.6612	0.6035		45.6	50.0	-8.7	20.0
Chloroprene	Ave	0.3600	0.3224		44.8	50.0	-10.5	20.0
Ethyl tert-butyl ether	Ave	0.5368	0.5114		47.6	50.0	-4.7	20.0
2,2-Dichloropropane	Ave	0.3600	0.3283		45.6	50.0	-8.8	20.0
cis-1,2-Dichloroethene	Ave	0.3574	0.3277		45.8	50.0	-8.3	20.0
2-Butanone (MEK)	Ave	0.0134	0.0129		240	250	-4.0	20.0
Ethyl acetate	Ave	0.0996	0.0956		96.0	100	-4.0	20.0
Propionitrile	Ave	0.0147	0.0150		507	500	1.4	20.0
Bromochloromethane	Ave	0.1317	0.1235		46.9	50.0	-6.3	20.0
Methacrylonitrile	Ave	0.0672	0.0682		508	500	1.5	20.0
Tetrahydrofuran	Lin2		0.0293		96.8	100	-3.2	20.0
Chloroform	Lin2		0.3630		46.2	50.0	-7.6	20.0
1,1,1-Trichloroethane	Ave	0.3552	0.3456		48.6	50.0	-2.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCVIS 490-240821/2 Calibration Date: 04/13/2015 10:44

Instrument ID: HP25 Calib Start Date: 04/01/2015 13:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2015 17:04

Lab File ID: 041315-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Cyclohexane	Ave	0.3771	0.4067		53.9	50.0	7.8	20.0
1,1-Dichloropropene	Ave	0.3121	0.3326		53.3	50.0	6.5	20.0
Carbon tetrachloride	Ave	0.3032	0.3368		55.5	50.0	11.1	20.0
Isobutanol	Ave	0.0029	0.0036		1545	1250	23.6*	20.0
Benzene	Ave	0.9309	1.000		53.7	50.0	7.5	20.0
1,2-Dichloroethane	Ave	0.2567	0.2667		51.9	50.0	3.9	20.0
t-Amyl alcohol	Ave	0.0052	0.0066		636	500	27.3	40.0
Tert-amyl methyl ether	Ave	0.4234	0.4938		58.3	50.0	16.6	20.0
Heptane	Ave	0.3073	0.3119		50.7	50.0	1.5	20.0
n-Butanol	Lin1		0.0021		1508	1250	20.6*	20.0
Trichloroethene	Ave	0.2631	0.2854		54.2	50.0	8.4	20.0
Ethyl acrylate	Lin2		0.1516		57.1	50.0	14.3	20.0
Methylcyclohexane	Ave	0.4170	0.4640		55.6	50.0	11.3	20.0
1,2-Dichloropropane	Ave	0.2199	0.2382		54.2	50.0	8.3	20.0
Dibromomethane	Ave	0.1096	0.1168		53.3	50.0	6.6	20.0
Methyl methacrylate	Ave	0.0969	0.1182		122	100	22.0*	20.0
1,4-Dioxane	Lin1		0.0010		1211	1000	21.1*	20.0
Bromodichloromethane	Ave	0.2807	0.3034		54.0	50.0	8.1	20.0
2-Nitropropane	Ave	0.0300	0.0335		112	100	11.7	20.0
2-Chloroethyl vinyl ether	Lin2		0.1293		59.3	50.0	18.5	20.0
cis-1,3-Dichloropropene	Ave	0.3953	0.4857		61.4	50.0	22.9*	20.0
4-Methyl-2-pentanone (MIBK)	Lin2		0.0602		304	250	21.8*	20.0
Toluene	Ave	1.351	1.463		54.2	50.0	8.4	20.0
trans-1,3-Dichloropropene	Ave	0.3071	0.3826		62.3	50.0	24.6*	20.0
Ethyl methacrylate	Lin2		0.2636		60.4	50.0	20.8*	20.0
1,1,2-Trichloroethane	Ave	0.2095	0.2359		56.3	50.0	12.6	20.0
Tetrachloroethene	Ave	0.3837	0.4119		53.7	50.0	7.4	20.0
1,3-Dichloropropane	Ave	0.3410	0.3979		58.4	50.0	16.7	20.0
2-Hexanone	Lin2		0.0551		313	250	25.2*	20.0
Chlorodibromomethane	Ave	0.1842	0.2234		60.6	50.0	21.3*	20.0
n-Butyl acetate	Lin1		0.1494		53.5	50.0	7.0	20.0
1,2-Dibromoethane (EDB)	Ave	0.1891	0.2242		59.3	50.0	18.6	20.0
1-Chlorohexane	Ave	0.3482	0.3636		52.2	50.0	4.4	20.0
Chlorobenzene	Ave	0.8824	0.9676	0.3000	54.8	50.0	9.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2944	0.3339		56.7	50.0	13.4	20.0
Ethylbenzene	Ave	1.361	1.609		59.1	50.0	18.2	20.0
m,p-Xylene	Ave	1.076	1.256		58.4	50.0	16.7	20.0
o-Xylene	Ave	1.065	1.271		59.7	50.0	19.4	20.0
Styrene	Lin2		1.051		57.9	50.0	15.8	20.0
Bromoform	Ave	0.1220	0.1524	0.1000	62.5	50.0	25.0*	20.0
Isopropylbenzene	Ave	1.289	1.573		61.0	50.0	22.1*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCVIS 490-240821/2 Calibration Date: 04/13/2015 10:44

Instrument ID: HP25 Calib Start Date: 04/01/2015 13:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2015 17:04

Lab File ID: 041315-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Cyclohexanone	Lin1		0.0084		773	500	54.5*	20.0
Bromobenzene	Ave	0.9311	1.008		54.1	50.0	8.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.3885	0.4635	0.3000	59.7	50.0	19.3	20.0
1,2,3-Trichloropropane	Lin2		0.1280		55.6	50.0	11.3	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1046		55.7	50.0	11.3	20.0
N-Propylbenzene	Ave	2.654	3.232		60.9	50.0	21.8*	20.0
2-Chlorotoluene	Ave	1.853	1.979		53.4	50.0	6.8	20.0
1,3,5-Trimethylbenzene	Ave	1.991	2.351		59.1	50.0	18.1	20.0
4-Chlorotoluene	Ave	2.036	2.285		56.1	50.0	12.2	20.0
tert-Butylbenzene	Ave	1.679	1.994		59.4	50.0	18.8	20.0
1,2,4-Trimethylbenzene	Ave	1.990	2.375		59.7	50.0	19.3	20.0
sec-Butylbenzene	Ave	2.407	2.802		58.2	50.0	16.4	20.0
1,3-Dichlorobenzene	Ave	1.187	1.381		58.2	50.0	16.3	20.0
p-Isopropyltoluene	Ave	2.053	2.473		60.2	50.0	20.5*	20.0
1,4-Dichlorobenzene	Ave	1.320	1.412		53.5	50.0	7.0	20.0
1,2,3-Trimethylbenzene	Ave	2.092	2.390		57.1	50.0	14.3	20.0
Benzyl chloride	Lin1		0.4394		59.5	50.0	19.0	20.0
1,2-Dichlorobenzene	Ave	1.117	1.281		57.3	50.0	14.7	20.0
n-Butylbenzene	Lin2		1.984		56.8	50.0	13.7	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0800		59.3	50.0	18.7	20.0
1,3,5-Trichlorobenzene	Ave	0.7739	0.9409		60.8	50.0	21.6*	20.0
1,2,4-Trichlorobenzene	Lin2		0.7415		55.7	50.0	11.3	20.0
Hexachlorobutadiene	Ave	0.2836	0.2952		52.0	50.0	4.1	20.0
Naphthalene	Lin1		1.395		56.6	50.0	13.3	20.0
1,2,3-Trichlorobenzene	Lin2		0.6628		57.3	50.0	14.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2247	0.1972		21.9	25.0	-12.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2238	0.2220		24.8	25.0	-0.8	30.0
Toluene-d8 (Surr)	Ave	1.263	1.274		25.2	25.0	0.9	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8339	0.8360		25.1	25.0	0.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCVIS 490-240980/2 Calibration Date: 04/13/2015 22:35

Instrument ID: HP25 Calib Start Date: 04/01/2015 13:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2015 17:04

Lab File ID: 041315-27.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2468	0.2458		62.2	62.5	-0.4	20.0
Chloromethane	Ave	0.2786	0.2606	0.1000	58.5	62.5	-6.5	20.0
Vinyl chloride	Ave	0.2932	0.2786		59.4	62.5	-5.0	20.0
Butadiene	Ave	0.2630	0.2471		58.7	62.5	-6.0	20.0
Bromomethane	Ave	0.1587	0.1458		57.4	62.5	-8.2	20.0
Chloroethane	Ave	0.1799	0.1573		54.7	62.5	-12.5	20.0
Dichlorofluoromethane	Ave	0.4438	0.3929		55.3	62.5	-11.5	20.0
Trichlorofluoromethane	Ave	0.3832	0.3316		54.1	62.5	-13.5	20.0
Ethanol	Ave	0.0006	0.0008		2416	2000	20.8	40.0
Diethyl ether	Ave	0.1401	0.1348		48.1	50.0	-3.8	20.0
Acrolein	Ave	0.0112	0.0090		101	125	-19.6	40.0
1,1-Dichloroethene	Ave	0.2249	0.1891		42.0	50.0	-15.9	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2384	0.1986		41.7	50.0	-16.7	20.0
Acetone	Lin2		0.0090		246	250	-1.5	20.0
Iodomethane	Ave	0.2888	0.2708		46.9	50.0	-6.2	20.0
Isopropyl alcohol	Lin1		0.0045		522	500	4.4	20.0
Carbon disulfide	Ave	0.6094	0.5222		42.8	50.0	-14.3	20.0
3-Chloro-1-propene	Ave	0.1339	0.1125		42.0	50.0	-16.0	20.0
Acetonitrile	Ave	0.0465	0.0411		442	500	-11.6	20.0
Methyl acetate	Lin2		0.0860		251	250	0.3	20.0
Methylene Chloride	Lin2		0.1968		45.1	50.0	-9.9	20.0
tert-Butyl alcohol (TBA)	Ave	0.0074	0.0074		506	500	1.2	40.0
Acrylonitrile	Ave	0.0443	0.0418		473	500	-5.5	20.0
trans-1,2-Dichloroethene	Ave	0.3110	0.2602		41.8	50.0	-16.3	20.0
Methyl tert-butyl ether	Ave	0.4451	0.4109		46.2	50.0	-7.7	20.0
Hexane	Ave	0.3744	0.2829		37.8	50.0	-24.4*	20.0
1,1-Dichloroethane	Ave	0.4379	0.3663	0.1000	41.8	50.0	-16.4	20.0
Vinyl acetate	Ave	0.4078	0.3907		95.8	100	-4.2	40.0
Diisopropyl ether	Ave	0.6612	0.5731		43.3	50.0	-13.3	20.0
Chloroprene	Ave	0.3600	0.2991		41.6	50.0	-16.9	20.0
Ethyl tert-butyl ether	Ave	0.5368	0.4930		45.9	50.0	-8.2	20.0
2,2-Dichloropropane	Ave	0.3600	0.2888		40.1	50.0	-19.8	20.0
cis-1,2-Dichloroethene	Ave	0.3574	0.3075		43.0	50.0	-13.9	20.0
2-Butanone (MEK)	Ave	0.0134	0.0125		233	250	-6.7	20.0
Propionitrile	Ave	0.0147	0.0147		500	500	0.0	20.0
Ethyl acetate	Ave	0.0996	0.0953		95.7	100	-4.3	20.0
Bromochloromethane	Ave	0.1317	0.1224		46.5	50.0	-7.1	20.0
Methacrylonitrile	Ave	0.0672	0.0676		503	500	0.5	20.0
Tetrahydrofuran	Lin2		0.0292		96.3	100	-3.7	20.0
Chloroform	Lin2		0.3489		44.4	50.0	-11.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCVIS 490-240980/2 Calibration Date: 04/13/2015 22:35

Instrument ID: HP25 Calib Start Date: 04/01/2015 13:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2015 17:04

Lab File ID: 041315-27.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.3552	0.3461		48.7	50.0	-2.6	20.0
Cyclohexane	Ave	0.3771	0.3748		49.7	50.0	-0.6	20.0
1,1-Dichloropropene	Ave	0.3121	0.3092		49.5	50.0	-1.0	20.0
Carbon tetrachloride	Ave	0.3032	0.3183		52.5	50.0	5.0	20.0
Isobutanol	Ave	0.0029	0.0035		1463	1250	17.0	20.0
Benzene	Ave	0.9309	0.9449		50.8	50.0	1.5	20.0
1,2-Dichloroethane	Ave	0.2567	0.2596		50.6	50.0	1.1	20.0
t-Amyl alcohol	Ave	0.0052	0.0061		588	500	17.6	40.0
Tert-amyl methyl ether	Ave	0.4234	0.4793		56.6	50.0	13.2	20.0
Heptane	Ave	0.3073	0.2611		42.5	50.0	-15.0	20.0
n-Butanol	Lin1		0.0019		1357	1250	8.6	20.0
Trichloroethene	Ave	0.2631	0.2714		51.6	50.0	3.1	20.0
Ethyl acrylate	Lin2		0.1496		56.4	50.0	12.8	20.0
Methylcyclohexane	Ave	0.4170	0.4279		51.3	50.0	2.6	20.0
1,2-Dichloropropane	Ave	0.2199	0.2234		50.8	50.0	1.6	20.0
Dibromomethane	Ave	0.1096	0.1160		53.0	50.0	5.9	20.0
Methyl methacrylate	Ave	0.0969	0.1172		121	100	21.0*	20.0
1,4-Dioxane	Lin1		0.0009		1098	1000	9.8	20.0
Bromodichloromethane	Ave	0.2807	0.2946		52.5	50.0	4.9	20.0
2-Nitropropane	Ave	0.0300	0.0339		113	100	12.8	20.0
2-Chloroethyl vinyl ether	Lin2		0.1235		56.6	50.0	13.2	20.0
cis-1,3-Dichloropropene	Ave	0.3953	0.4555		57.6	50.0	15.2	20.0
4-Methyl-2-pentanone (MIBK)	Lin2		0.0601		304	250	21.5*	20.0
Toluene	Ave	1.351	1.379		51.0	50.0	2.1	20.0
trans-1,3-Dichloropropene	Ave	0.3071	0.3620		59.0	50.0	17.9	20.0
Ethyl methacrylate	Lin2		0.2522		57.8	50.0	15.6	20.0
1,1,2-Trichloroethane	Ave	0.2095	0.2315		55.3	50.0	10.5	20.0
Tetrachloroethene	Ave	0.3837	0.3911		51.0	50.0	1.9	20.0
1,3-Dichloropropane	Ave	0.3410	0.3836		56.3	50.0	12.5	20.0
2-Hexanone	Lin2		0.0530		301	250	20.4*	20.0
Chlorodibromomethane	Ave	0.1842	0.2182		59.2	50.0	18.5	20.0
n-Butyl acetate	Lin1		0.1425		51.1	50.0	2.2	20.0
1,2-Dibromoethane (EDB)	Ave	0.1891	0.2214		58.6	50.0	17.1	20.0
1-Chlorohexane	Ave	0.3482	0.3409		49.0	50.0	-2.1	20.0
Chlorobenzene	Ave	0.8824	0.9163	0.3000	51.9	50.0	3.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2944	0.3168		53.8	50.0	7.6	20.0
Ethylbenzene	Ave	1.361	1.512		55.6	50.0	11.1	20.0
m,p-Xylene	Ave	1.076	1.182		54.9	50.0	9.9	20.0
o-Xylene	Ave	1.065	1.205		56.6	50.0	13.2	20.0
Styrene	Lin2		0.995		54.8	50.0	9.7	20.0
Bromoform	Ave	0.1220	0.1499	0.1000	61.5	50.0	22.9*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCVIS 490-240980/2 Calibration Date: 04/13/2015 22:35

Instrument ID: HP25 Calib Start Date: 04/01/2015 13:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2015 17:04

Lab File ID: 041315-27.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	1.289	1.481		57.5	50.0	14.9	20.0
Cyclohexanone	Lin1		0.0044		405	500	-18.9	20.0
Bromobenzene	Ave	0.9311	0.9387		50.4	50.0	0.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.3885	0.4549	0.3000	58.5	50.0	17.1	20.0
1,2,3-Trichloropropane	Lin2		0.1278		55.6	50.0	11.1	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1020		54.3	50.0	8.6	20.0
N-Propylbenzene	Ave	2.654	3.004		56.6	50.0	13.2	20.0
2-Chlorotoluene	Ave	1.853	1.837		49.6	50.0	-0.8	20.0
1,3,5-Trimethylbenzene	Ave	1.991	2.148		54.0	50.0	7.9	20.0
4-Chlorotoluene	Ave	2.036	2.137		52.5	50.0	5.0	20.0
tert-Butylbenzene	Ave	1.679	1.865		55.6	50.0	11.1	20.0
1,2,4-Trimethylbenzene	Ave	1.990	2.216		55.7	50.0	11.4	20.0
sec-Butylbenzene	Ave	2.407	2.632		54.7	50.0	9.3	20.0
1,3-Dichlorobenzene	Ave	1.187	1.304		54.9	50.0	9.8	20.0
p-Isopropyltoluene	Ave	2.053	2.301		56.0	50.0	12.1	20.0
1,4-Dichlorobenzene	Ave	1.320	1.357		51.4	50.0	2.8	20.0
1,2,3-Trimethylbenzene	Ave	2.092	2.244		53.6	50.0	7.2	20.0
Benzyl chloride	Lin1		0.3793		51.6	50.0	3.2	20.0
1,2-Dichlorobenzene	Ave	1.117	1.238		55.4	50.0	10.8	20.0
n-Butylbenzene	Lin2		1.800		51.6	50.0	3.2	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0791		58.7	50.0	17.3	20.0
1,3,5-Trichlorobenzene	Ave	0.7739	0.8718		56.3	50.0	12.6	20.0
1,2,4-Trichlorobenzene	Lin2		0.7328		55.0	50.0	10.0	20.0
Hexachlorobutadiene	Ave	0.2836	0.2727		48.1	50.0	-3.8	20.0
Naphthalene	Lin1		1.334		54.2	50.0	8.3	20.0
1,2,3-Trichlorobenzene	Lin2		0.6469		55.9	50.0	11.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2247	0.2288		25.5	25.0	1.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2238	0.2254		25.2	25.0	0.7	30.0
Toluene-d8 (Surr)	Ave	1.263	1.276		25.3	25.0	1.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8339	0.8153		24.4	25.0	-2.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: ICV 490-233414/12 Calibration Date: 03/13/2015 15:50

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 031315-12.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2790	0.2746		49.2	50.0	-1.6	30.0
Chloromethane	Ave	0.2073	0.2071	0.1000	50.0	50.0	-0.1	30.0
Vinyl chloride	Ave	0.2498	0.2388		47.8	50.0	-4.4	30.0
Butadiene	Ave	0.2166	0.2073		47.9	50.0	-4.3	30.0
Bromomethane	Ave	0.1830	0.1795		49.0	50.0	-1.9	30.0
Chloroethane	Ave	0.1650	0.1577		47.8	50.0	-4.5	30.0
Dichlorofluoromethane	Ave	0.4650	0.4380		47.1	50.0	-5.8	30.0
Trichlorofluoromethane	Ave	0.4717	0.4558		48.3	50.0	-3.4	30.0
Ethanol	Lin1		0.0003		2934	2500	17.4	30.0
Diethyl ether	Ave	0.1271	0.1260		49.6	50.0	-0.9	30.0
Acrolein	Lin1		0.0062		109	125	-13.1	30.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2632	0.2515		47.8	50.0	-4.5	30.0
1,1-Dichloroethene	Ave	0.2344	0.2213		47.2	50.0	-5.6	30.0
Acetone	Ave	0.0074	0.0056		189	250	-24.4	30.0
Iodomethane	Lin1		0.3697		51.2	50.0	2.5	30.0
Isopropyl alcohol	Lin1		0.0038		524	500	4.8	30.0
Carbon disulfide	Ave	0.5713	0.5700		49.9	50.0	-0.2	30.0
Acetonitrile	Ave	0.0396	0.0361		455	500	-8.9	30.0
3-Chloro-1-propene	Ave	0.1558	0.1402		45.0	50.0	-10.0	30.0
Methyl acetate	Ave	0.0926	0.0824		222	250	-11.1	30.0
Methylene Chloride	Lin2		0.2361		49.7	50.0	-0.6	30.0
tert-Butyl alcohol (TBA)	Ave	0.0066	0.0069		524	500	4.9	30.0
Acrylonitrile	Ave	0.0340	0.0331		487	500	-2.6	30.0
Methyl tert-butyl ether	Ave	0.4782	0.4649		48.6	50.0	-2.8	30.0
trans-1,2-Dichloroethene	Ave	0.3145	0.3163		50.3	50.0	0.6	30.0
Hexane	Ave	0.3059	0.2935		48.0	50.0	-4.1	30.0
1,1-Dichloroethane	Ave	0.4187	0.4172	0.1000	49.8	50.0	-0.4	30.0
Vinyl acetate	Ave	0.1854	0.2566		138	100	38.4*	30.0
Diisopropyl ether	Ave	0.5891	0.5932		50.3	50.0	0.7	30.0
Chloroprene	Ave	0.3567	0.3774		52.9	50.0	5.8	30.0
Ethyl tert-butyl ether	Ave	0.5568	0.5491		49.3	50.0	-1.4	30.0
2,2-Dichloropropane	Ave	0.4061	0.4065		50.0	50.0	0.0	30.0
cis-1,2-Dichloroethene	Ave	0.3786	0.3745		49.5	50.0	-1.1	30.0
2-Butanone (MEK)	Ave	0.0120	0.0109		227	250	-9.1	30.0
Ethyl acetate	Ave	0.0675	0.0779		116	100	15.5	30.0
Propionitrile	Ave	0.0121	0.0115		477	500	-4.7	30.0
Methacrylonitrile	Ave	0.0596	0.0567		476	500	-4.9	30.0
Bromochloromethane	Ave	0.1637	0.1629		49.7	50.0	-0.5	30.0
Chloroform	Ave	0.4876	0.4712		48.3	50.0	-3.4	30.0
Tetrahydrofuran	Ave	0.0241	0.0239		99.0	100	-1.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: ICV 490-233414/12 Calibration Date: 03/13/2015 15:50

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 031315-12.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.4579	0.4591		50.1	50.0	0.3	30.0
Cyclohexane	Ave	0.4005	0.3798		47.4	50.0	-5.2	30.0
1,1-Dichloropropene	Ave	0.3344	0.3604		53.9	50.0	7.8	30.0
Carbon tetrachloride	Ave	0.3997	0.4165		52.1	50.0	4.2	30.0
Isobutanol	Ave	0.0064	0.0065		513	500	2.6	30.0
Benzene	Ave	1.019	1.011		49.6	50.0	-0.7	30.0
t-Amyl alcohol	Ave	0.0054	0.0054		507	500	1.5	30.0
1,2-Dichloroethane	Ave	0.2954	0.2849		48.2	50.0	-3.5	30.0
Tert-amyl methyl ether	Ave	0.5018	0.4926		49.1	50.0	-1.8	30.0
Heptane	Ave	0.2724	0.2591		47.6	50.0	-4.9	30.0
n-Butanol	Ave	0.0017	0.0018		1282	1250	2.6	30.0
Trichloroethene	Ave	0.3147	0.3204		50.9	50.0	1.8	30.0
Ethyl acrylate	Lin1		0.1218		47.2	50.0	-5.5	
Methylcyclohexane	Ave	0.4588	0.4504		49.1	50.0	-1.8	30.0
1,2-Dichloropropane	Ave	0.2260	0.2256		49.9	50.0	-0.2	30.0
Methyl methacrylate	Ave	0.0994	0.0986		99.2	100	-0.8	30.0
Dibromomethane	Ave	0.1201	0.1172		48.8	50.0	-2.4	30.0
1,4-Dioxane	Ave	0.0006	0.0007		1227	1000	22.7	30.0
Bromodichloromethane	Ave	0.3310	0.3345		50.5	50.0	1.1	30.0
2-Nitropropane	Lin1		0.0261		88.0	100	-12.0	30.0
2-Chloroethyl vinyl ether	Ave	0.1070	0.1077		50.3	50.0	0.6	30.0
cis-1,3-Dichloropropene	Ave	0.4482	0.4697		52.4	50.0	4.8	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0485	0.0419		216	250	-13.4	30.0
Toluene	Ave	1.552	1.507		48.6	50.0	-2.9	30.0
trans-1,3-Dichloropropene	Ave	0.3412	0.3809		55.8	50.0	11.6	30.0
Ethyl methacrylate	Ave	0.2516	0.2356		46.8	50.0	-6.4	30.0
1,1,2-Trichloroethane	Ave	0.2262	0.2104		46.5	50.0	-7.0	30.0
Tetrachloroethene	Ave	0.4358	0.4328		49.7	50.0	-0.7	30.0
1,3-Dichloropropane	Ave	0.3490	0.3359		48.1	50.0	-3.7	30.0
2-Hexanone	Ave	0.0401	0.0356		222	250	-11.4	30.0
Chlorodibromomethane	Lin2		0.2073		50.7	50.0	1.4	30.0
n-Butyl acetate	Ave	0.1038	0.1082		52.1	50.0	4.2	30.0
1,2-Dibromoethane (EDB)	Ave	0.2025	0.2018		49.8	50.0	-0.4	30.0
1-Chlorohexane	Ave	0.3775	0.3782		50.1	50.0	0.2	30.0
Chlorobenzene	Ave	0.9832	0.9834	0.3000	50.0	50.0	0.0	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3315	0.3519		53.1	50.0	6.2	30.0
Ethylbenzene	Ave	1.634	1.654		50.6	50.0	1.3	30.0
m,p-Xylene	Ave	1.317	1.330		50.5	50.0	0.9	30.0
o-Xylene	Ave	1.305	1.336		51.2	50.0	2.4	30.0
Styrene	Ave	1.032	1.084		52.5	50.0	5.0	30.0
Bromoform	Ave	0.1272	0.1498	0.1000	58.9	50.0	17.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: ICV 490-233414/12 Calibration Date: 03/13/2015 15:50

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 031315-12.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	1.716	1.764		51.4	50.0	2.8	30.0
Cyclohexanone	Lin2		0.0022		518	500	3.7	30.0
Bromobenzene	Ave	0.9110	0.8984		49.3	50.0	-1.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3571	0.3510	0.3000	49.2	50.0	-1.7	30.0
1,2,3-Trichloropropane	Ave	0.1253	0.1219		48.6	50.0	-2.7	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0899		47.9	50.0	-4.3	30.0
N-Propylbenzene	Ave	3.255	3.363		51.7	50.0	3.3	30.0
2-Chlorotoluene	Ave	2.030	2.018		49.7	50.0	-0.6	30.0
1,3,5-Trimethylbenzene	Ave	2.478	2.549		51.4	50.0	2.9	30.0
4-Chlorotoluene	Ave	2.297	2.378		51.8	50.0	3.5	30.0
tert-Butylbenzene	Ave	2.206	2.237		50.7	50.0	1.4	30.0
1,2,4-Trimethylbenzene	Ave	2.510	2.536		50.5	50.0	1.1	30.0
sec-Butylbenzene	Ave	3.069	3.166		51.6	50.0	3.2	30.0
1,3-Dichlorobenzene	Ave	1.362	1.389		51.0	50.0	2.0	30.0
p-Isopropyltoluene	Ave	2.723	2.776		51.0	50.0	1.9	30.0
1,4-Dichlorobenzene	Ave	1.444	1.443		50.0	50.0	-0.0	30.0
1,2,3-Trimethylbenzene	Ave	2.410	2.426		50.3	50.0	0.7	30.0
Benzyl chloride	Lin1		0.4058		48.3	50.0	-3.4	30.0
1,2-Dichlorobenzene	Ave	1.203	1.219		50.7	50.0	1.3	30.0
n-Butylbenzene	Ave	2.065	2.177		52.7	50.0	5.4	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0678		49.2	50.0	-1.7	30.0
1,3,5-Trichlorobenzene	Ave	0.8004	0.8447		52.8	50.0	5.5	30.0
1,2,4-Trichlorobenzene	Ave	0.5849	0.6179		52.8	50.0	5.7	30.0
Hexachlorobutadiene	Ave	0.3135	0.3348		53.4	50.0	6.8	30.0
Naphthalene	Ave	0.9218	0.9291		50.4	50.0	0.8	30.0
1,2,3-Trichlorobenzene	Ave	0.4437	0.4398		49.6	50.0	-0.9	30.0
Dibromofluoromethane (Surr)	Ave	0.2485	0.2476		24.9	25.0	-0.4	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2302	0.2255		24.5	25.0	-2.0	30.0
Toluene-d8 (Surr)	Ave	1.280	1.269		24.8	25.0	-0.8	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8031	0.8032		25.0	25.0	0.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCVIS 490-240523/2 Calibration Date: 04/11/2015 00:06

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 041015-33.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2790	0.2204		49.4	62.5	-21.0*	20.0
Chloromethane	Ave	0.2073	0.2180	0.1000	65.7	62.5	5.1	20.0
Vinyl chloride	Ave	0.2498	0.2513		62.9	62.5	0.6	20.0
Butadiene	Ave	0.2166	0.2343		67.6	62.5	8.2	20.0
Bromomethane	Ave	0.1830	0.1460		49.9	62.5	-20.2*	20.0
Chloroethane	Ave	0.1650	0.1722		65.2	62.5	4.3	20.0
Dichlorofluoromethane	Ave	0.4650	0.4360		58.6	62.5	-6.2	20.0
Trichlorofluoromethane	Ave	0.4717	0.3894		51.6	62.5	-17.4	20.0
Ethanol	Lin1		0.0004		2879	2000	44.0*	40.0
Diethyl ether	Ave	0.1271	0.1448		57.0	50.0	13.9	20.0
Acrolein	Lin1		0.0128		226	125	81.1*	40.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2632	0.2391		45.4	50.0	-9.2	20.0
1,1-Dichloroethene	Ave	0.2344	0.2275		48.5	50.0	-2.9	20.0
Acetone	Ave	0.0074	0.0089		300	250	19.9	20.0
Iodomethane	Lin1		0.3115		43.2	50.0	-13.5	20.0
Isopropyl alcohol	Lin1		0.0045		623	500	24.6*	20.0
Carbon disulfide	Ave	0.5713	0.6490		56.8	50.0	13.6	20.0
3-Chloro-1-propene	Ave	0.1558	0.1422		45.7	50.0	-8.7	20.0
Acetonitrile	Ave	0.0396	0.0451		569	500	13.8	20.0
Methyl acetate	Ave	0.0926	0.0817		221	250	-11.8	20.0
Methylene Chloride	Lin2		0.2357		49.6	50.0	-0.7	20.0
tert-Butyl alcohol (TBA)	Ave	0.0066	0.0079		601	500	20.2	40.0
Acrylonitrile	Ave	0.0340	0.0396		582	500	16.5	20.0
Methyl tert-butyl ether	Ave	0.4782	0.4650		48.6	50.0	-2.8	20.0
trans-1,2-Dichloroethene	Ave	0.3145	0.3305		52.5	50.0	5.1	20.0
Hexane	Ave	0.3059	0.3351		54.8	50.0	9.6	20.0
1,1-Dichloroethane	Ave	0.4187	0.4349	0.1000	51.9	50.0	3.8	20.0
Vinyl acetate	Ave	0.1854	0.3862		208	100	108.3*	40.0
Diisopropyl ether	Ave	0.5891	0.6864		58.3	50.0	16.5	20.0
Chloroprene	Ave	0.3567	0.3772		52.9	50.0	5.7	20.0
Ethyl tert-butyl ether	Ave	0.5568	0.5834		52.4	50.0	4.8	20.0
2,2-Dichloropropane	Ave	0.4061	0.3477		42.8	50.0	-14.4	20.0
cis-1,2-Dichloroethene	Ave	0.3786	0.3768		49.8	50.0	-0.5	20.0
2-Butanone (MEK)	Ave	0.0120	0.0126		263	250	5.2	20.0
Ethyl acetate	Ave	0.0675	0.1139		169	100	68.8*	20.0
Propionitrile	Ave	0.0121	0.0143		592	500	18.3	20.0
Methacrylonitrile	Ave	0.0596	0.0697		585	500	16.9	20.0
Bromochloromethane	Ave	0.1637	0.1452		44.3	50.0	-11.3	20.0
Chloroform	Ave	0.4876	0.4286		44.0	50.0	-12.1	20.0
Tetrahydrofuran	Ave	0.0241	0.0309		128	100	28.1*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCVIS 490-240523/2 Calibration Date: 04/11/2015 00:06

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 041015-33.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.4579	0.3873		42.3	50.0	-15.4	20.0
Cyclohexane	Ave	0.4005	0.4316		53.9	50.0	7.8	20.0
1,1-Dichloropropene	Ave	0.3344	0.3539		52.9	50.0	5.8	20.0
Carbon tetrachloride	Ave	0.3997	0.3432		42.9	50.0	-14.1	20.0
Isobutanol	Ave	0.0064	0.0034		672	1250	-46.2*	20.0
Benzene	Ave	1.019	1.016		49.9	50.0	-0.3	20.0
t-Amyl alcohol	Ave	0.0054	0.0064		594	500	18.8	40.0
1,2-Dichloroethane	Ave	0.2954	0.2662		45.1	50.0	-9.9	20.0
Tert-amyl methyl ether	Ave	0.5018	0.4910		48.9	50.0	-2.2	20.0
Heptane	Ave	0.2724	0.2929		53.8	50.0	7.5	20.0
n-Butanol	Ave	0.0017	0.0023		1623	1250	29.9*	20.0
Trichloroethene	Ave	0.3147	0.2783		44.2	50.0	-11.6	20.0
Ethyl acrylate	Lin1		0.1360		52.6	50.0	5.2	20.0
Methylcyclohexane	Ave	0.4588	0.4520		49.3	50.0	-1.5	20.0
1,2-Dichloropropane	Ave	0.2260	0.2377		52.6	50.0	5.2	20.0
Methyl methacrylate	Ave	0.0994	0.1119		113	100	12.5	20.0
Dibromomethane	Ave	0.1201	0.1073		44.6	50.0	-10.7	20.0
1,4-Dioxane	Ave	0.0006	0.0008		1428	1000	42.8*	20.0
Bromodichloromethane	Ave	0.3310	0.2997		45.3	50.0	-9.4	20.0
2-Nitropropane	Lin1		0.0321		108	100	8.2	20.0
2-Chloroethyl vinyl ether	Ave	0.1070	0.1159		54.1	50.0	8.2	20.0
cis-1,3-Dichloropropene	Ave	0.4482	0.4684		52.3	50.0	4.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0485	0.0537		277	250	10.7	20.0
Toluene	Ave	1.552	1.442		46.5	50.0	-7.1	20.0
trans-1,3-Dichloropropene	Ave	0.3412	0.3587		52.6	50.0	5.1	20.0
Ethyl methacrylate	Ave	0.2516	0.2490		49.5	50.0	-1.0	20.0
1,1,2-Trichloroethane	Ave	0.2262	0.2056		45.4	50.0	-9.1	20.0
Tetrachloroethene	Ave	0.4358	0.3718		42.7	50.0	-14.7	20.0
1,3-Dichloropropane	Ave	0.3490	0.3698		53.0	50.0	5.9	20.0
2-Hexanone	Ave	0.0401	0.0496		309	250	23.6*	20.0
Chlorodibromomethane	Lin2		0.1923		47.0	50.0	-5.9	20.0
n-Butyl acetate	Ave	0.1038	0.1599		77.0	50.0	54.0*	20.0
1,2-Dibromoethane (EDB)	Ave	0.2025	0.1968		48.6	50.0	-2.8	20.0
1-Chlorohexane	Ave	0.3775	0.3698		49.0	50.0	-2.0	20.0
Chlorobenzene	Ave	0.9832	0.9665	0.3000	49.2	50.0	-1.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3315	0.3227		48.7	50.0	-2.6	20.0
Ethylbenzene	Ave	1.634	1.657		50.7	50.0	1.4	20.0
m,p-Xylene	Ave	1.317	1.305		49.5	50.0	-1.0	20.0
o-Xylene	Ave	1.305	1.315		50.4	50.0	0.8	20.0
Styrene	Ave	1.032	1.070		51.8	50.0	3.7	20.0
Bromoform	Ave	0.1272	0.1255	0.1000	49.3	50.0	-1.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCVIS 490-240523/2 Calibration Date: 04/11/2015 00:06

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 041015-33.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	1.716	1.665		48.5	50.0	-3.0	20.0
Cyclohexanone	Lin2		0.0078		1847	500	269.5*	20.0
Bromobenzene	Ave	0.9110	1.004		55.1	50.0	10.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.3571	0.3920	0.3000	54.9	50.0	9.8	20.0
1,2,3-Trichloropropane	Ave	0.1253	0.1282		51.2	50.0	2.3	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1216		64.4	50.0	28.9*	20.0
N-Propylbenzene	Ave	3.255	3.676		56.5	50.0	12.9	20.0
2-Chlorotoluene	Ave	2.030	2.171		53.5	50.0	7.0	20.0
1,3,5-Trimethylbenzene	Ave	2.478	2.655		53.6	50.0	7.2	20.0
4-Chlorotoluene	Ave	2.297	2.535		55.2	50.0	10.3	20.0
tert-Butylbenzene	Ave	2.206	2.281		51.7	50.0	3.4	20.0
1,2,4-Trimethylbenzene	Ave	2.510	2.666		53.1	50.0	6.2	20.0
sec-Butylbenzene	Ave	3.069	3.365		54.8	50.0	9.7	20.0
1,3-Dichlorobenzene	Ave	1.362	1.397		51.3	50.0	2.6	20.0
p-Isopropyltoluene	Ave	2.723	2.915		53.5	50.0	7.1	20.0
1,4-Dichlorobenzene	Ave	1.444	1.412		48.9	50.0	-2.2	20.0
1,2,3-Trimethylbenzene	Ave	2.410	2.536		52.6	50.0	5.2	20.0
Benzyl chloride	Lin1		0.3120		37.3	50.0	-25.5*	20.0
1,2-Dichlorobenzene	Ave	1.203	1.218		50.6	50.0	1.2	20.0
n-Butylbenzene	Ave	2.065	2.387		57.8	50.0	15.6	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0641		46.5	50.0	-6.9	20.0
1,3,5-Trichlorobenzene	Ave	0.8004	0.8361		52.2	50.0	4.5	20.0
1,2,4-Trichlorobenzene	Ave	0.5849	0.6080		52.0	50.0	4.0	20.0
Hexachlorobutadiene	Ave	0.3135	0.3317		52.9	50.0	5.8	20.0
Naphthalene	Ave	0.9218	0.9419		51.1	50.0	2.2	20.0
1,2,3-Trichlorobenzene	Ave	0.4437	0.4266		48.1	50.0	-3.9	20.0
Dibromofluoromethane (Surr)	Ave	0.2485	0.2317		23.3	25.0	-6.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2302	0.2250		24.4	25.0	-2.3	30.0
Toluene-d8 (Surr)	Ave	1.280	1.255		24.5	25.0	-1.9	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8031	0.8637		26.9	25.0	7.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCVIS 490-240926/2 Calibration Date: 04/13/2015 15:01

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 041315-12.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2790	0.2582		57.9	62.5	-7.4	20.0
Chloromethane	Ave	0.2073	0.2543	0.1000	76.7	62.5	22.7*	20.0
Vinyl chloride	Ave	0.2498	0.2961		74.1	62.5	18.5	20.0
Butadiene	Ave	0.2166	0.2641		76.2	62.5	21.9*	20.0
Bromomethane	Ave	0.1830	0.1864		63.6	62.5	1.8	20.0
Chloroethane	Ave	0.1650	0.1923		72.8	62.5	16.5	20.0
Dichlorofluoromethane	Ave	0.4650	0.4692		63.1	62.5	0.9	20.0
Trichlorofluoromethane	Ave	0.4717	0.4080		54.1	62.5	-13.5	20.0
Ethanol	Lin1		0.0004		3035	2000	51.7*	40.0
Diethyl ether	Ave	0.1271	0.1514		59.6	50.0	19.1	20.0
Acrolein	Lin1		0.0139		246	125	97.1*	40.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2632	0.2471		46.9	50.0	-6.1	20.0
1,1-Dichloroethene	Ave	0.2344	0.2430		51.8	50.0	3.7	20.0
Acetone	Ave	0.0074	0.0084		283	250	13.2	20.0
Iodomethane	Lin1		0.2587		36.0	50.0	-28.0*	20.0
Isopropyl alcohol	Lin1		0.0041		563	500	12.6	20.0
Carbon disulfide	Ave	0.5713	0.6171		54.0	50.0	8.0	20.0
3-Chloro-1-propene	Ave	0.1558	0.2392		76.8	50.0	53.6*	20.0
Acetonitrile	Ave	0.0396	0.0458		577	500	15.5	20.0
Methyl acetate	Ave	0.0926	0.0821		222	250	-11.3	20.0
Methylene Chloride	Lin2		0.2546		53.6	50.0	7.3	20.0
tert-Butyl alcohol (TBA)	Ave	0.0066	0.0071		542	500	8.4	40.0
Acrylonitrile	Ave	0.0340	0.0414		609	500	21.8*	20.0
trans-1,2-Dichloroethene	Ave	0.3145	0.3422		54.4	50.0	8.8	20.0
Methyl tert-butyl ether	Ave	0.4782	0.4644		48.6	50.0	-2.9	20.0
Hexane	Ave	0.3059	0.3501		57.2	50.0	14.5	20.0
1,1-Dichloroethane	Ave	0.4187	0.4559	0.1000	54.4	50.0	8.9	20.0
Diisopropyl ether	Ave	0.5891	0.6994		59.4	50.0	18.7	20.0
Vinyl acetate	Ave	0.1854	0.4358		235	100	135.1*	40.0
Chloroprene	Ave	0.3567	0.3768		52.8	50.0	5.6	20.0
Ethyl tert-butyl ether	Ave	0.5568	0.5793		52.0	50.0	4.0	20.0
2,2-Dichloropropane	Ave	0.4061	0.3730		45.9	50.0	-8.2	20.0
cis-1,2-Dichloroethene	Ave	0.3786	0.3933		51.9	50.0	3.9	20.0
2-Butanone (MEK)	Ave	0.0120	0.0131		273	250	9.1	20.0
Ethyl acetate	Ave	0.0675	0.1066		158	100	57.9*	20.0
Propionitrile	Ave	0.0121	0.0148		612	500	22.4*	20.0
Methacrylonitrile	Ave	0.0596	0.0697		585	500	16.9	20.0
Bromochloromethane	Ave	0.1637	0.1554		47.5	50.0	-5.1	20.0
Chloroform	Ave	0.4876	0.4459		45.7	50.0	-8.5	20.0
Tetrahydrofuran	Ave	0.0241	0.0299		124	100	23.9*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCVIS 490-240926/2 Calibration Date: 04/13/2015 15:01

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 041315-12.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.4579	0.3909		42.7	50.0	-14.6	20.0
Cyclohexane	Ave	0.4005	0.4364		54.5	50.0	9.0	20.0
1,1-Dichloropropene	Ave	0.3344	0.3658		54.7	50.0	9.4	20.0
Carbon tetrachloride	Ave	0.3997	0.3505		43.8	50.0	-12.3	20.0
Isobutanol	Ave	0.0064	0.0034		664	1250	-46.9*	20.0
Benzene	Ave	1.019	1.081		53.1	50.0	6.1	20.0
t-Amyl alcohol	Ave	0.0054	0.0057		535	500	7.1	40.0
1,2-Dichloroethane	Ave	0.2954	0.2644		44.8	50.0	-10.5	20.0
Tert-amyl methyl ether	Ave	0.5018	0.4936		49.2	50.0	-1.6	20.0
Heptane	Ave	0.2724	0.3057		56.1	50.0	12.2	20.0
n-Butanol	Ave	0.0017	0.0021		1483	1250	18.6	20.0
Trichloroethene	Ave	0.3147	0.2967		47.1	50.0	-5.7	20.0
Ethyl acrylate	Lin1		0.1374		53.1	50.0	6.2	20.0
Methylcyclohexane	Ave	0.4588	0.4610		50.2	50.0	0.5	20.0
1,2-Dichloropropane	Ave	0.2260	0.2529		56.0	50.0	11.9	20.0
Methyl methacrylate	Ave	0.0994	0.1096		110	100	10.3	20.0
Dibromomethane	Ave	0.1201	0.1111		46.2	50.0	-7.5	20.0
1,4-Dioxane	Ave	0.0006	0.0007		1193	1000	19.3	20.0
Bromodichloromethane	Ave	0.3310	0.3093		46.7	50.0	-6.5	20.0
2-Nitropropane	Lin1		0.0294		99.1	100	-1.0	20.0
2-Chloroethyl vinyl ether	Ave	0.1070	0.1213		56.6	50.0	13.3	20.0
cis-1,3-Dichloropropene	Ave	0.4482	0.4936		55.1	50.0	10.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0485	0.0563		290	250	16.1	20.0
Toluene	Ave	1.552	1.563		50.3	50.0	0.7	20.0
trans-1,3-Dichloropropene	Ave	0.3412	0.3681		53.9	50.0	7.9	20.0
Ethyl methacrylate	Ave	0.2516	0.2552		50.7	50.0	1.5	20.0
1,1,2-Trichloroethane	Ave	0.2262	0.2207		48.8	50.0	-2.5	20.0
Tetrachloroethene	Ave	0.4358	0.4091		46.9	50.0	-6.1	20.0
1,3-Dichloropropane	Ave	0.3490	0.3919		56.1	50.0	12.3	20.0
2-Hexanone	Ave	0.0401	0.0501		312	250	24.8*	20.0
Chlorodibromomethane	Lin2		0.2093		51.2	50.0	2.4	20.0
n-Butyl acetate	Ave	0.1038	0.1498		72.1	50.0	44.2*	20.0
1,2-Dibromoethane (EDB)	Ave	0.2025	0.2099		51.8	50.0	3.6	20.0
1-Chlorohexane	Ave	0.3775	0.3744		49.6	50.0	-0.8	20.0
Chlorobenzene	Ave	0.9832	1.035	0.3000	52.6	50.0	5.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3315	0.3446		52.0	50.0	4.0	20.0
Ethylbenzene	Ave	1.634	1.721		52.7	50.0	5.3	20.0
m,p-Xylene	Ave	1.317	1.348		51.2	50.0	2.3	20.0
o-Xylene	Ave	1.305	1.375		52.7	50.0	5.4	20.0
Styrene	Ave	1.032	1.123		54.4	50.0	8.8	20.0
Bromoform	Ave	0.1272	0.1384	0.1000	54.4	50.0	8.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCVIS 490-240926/2 Calibration Date: 04/13/2015 15:01

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 041315-12.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	1.716	1.734		50.5	50.0	1.1	20.0
Cyclohexanone	Lin2		0.0038		898	500	79.7*	20.0
Bromobenzene	Ave	0.9110	0.9666		53.1	50.0	6.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.3571	0.4060	0.3000	56.9	50.0	13.7	20.0
1,2,3-Trichloropropane	Ave	0.1253	0.1224		48.8	50.0	-2.3	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.0934		49.7	50.0	-0.6	20.0
N-Propylbenzene	Ave	3.255	3.607		55.4	50.0	10.8	20.0
2-Chlorotoluene	Ave	2.030	2.113		52.1	50.0	4.1	20.0
1,3,5-Trimethylbenzene	Ave	2.478	2.613		52.7	50.0	5.4	20.0
4-Chlorotoluene	Ave	2.297	2.468		53.7	50.0	7.5	20.0
tert-Butylbenzene	Ave	2.206	2.256		51.1	50.0	2.3	20.0
1,2,4-Trimethylbenzene	Ave	2.510	2.638		52.6	50.0	5.1	20.0
sec-Butylbenzene	Ave	3.069	3.254		53.0	50.0	6.1	20.0
1,3-Dichlorobenzene	Ave	1.362	1.435		52.7	50.0	5.4	20.0
p-Isopropyltoluene	Ave	2.723	2.869		52.7	50.0	5.4	20.0
1,4-Dichlorobenzene	Ave	1.444	1.461		50.6	50.0	1.2	20.0
1,2,3-Trimethylbenzene	Ave	2.410	2.537		52.6	50.0	5.3	20.0
Benzyl chloride	Lin1		0.3716		44.3	50.0	-11.5	20.0
1,2-Dichlorobenzene	Ave	1.203	1.256		52.2	50.0	4.4	20.0
n-Butylbenzene	Ave	2.065	2.342		56.7	50.0	13.4	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0715		51.8	50.0	3.7	20.0
1,3,5-Trichlorobenzene	Ave	0.8004	0.9104		56.9	50.0	13.7	20.0
1,2,4-Trichlorobenzene	Ave	0.5849	0.7189		61.5	50.0	22.9*	20.0
Hexachlorobutadiene	Ave	0.3135	0.3541		56.5	50.0	13.0	20.0
Naphthalene	Ave	0.9218	1.215		65.9	50.0	31.9*	20.0
1,2,3-Trichlorobenzene	Ave	0.4437	0.5693		64.2	50.0	28.3*	20.0
Dibromofluoromethane (Surr)	Ave	0.2485	0.2357		23.7	25.0	-5.1	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2302	0.2076		22.6	25.0	-9.8	30.0
Toluene-d8 (Surr)	Ave	1.280	1.284		25.1	25.0	0.4	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8031	0.8086		25.2	25.0	0.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCVIS 490-240982/2 Calibration Date: 04/14/2015 03:02

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 041315-39.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2790	0.2237		50.1	62.5	-19.8	20.0
Chloromethane	Ave	0.2073	0.2235	0.1000	67.4	62.5	7.8	20.0
Vinyl chloride	Ave	0.2498	0.2784		69.7	62.5	11.4	20.0
Butadiene	Ave	0.2166	0.2520		72.7	62.5	16.3	20.0
Bromomethane	Ave	0.1830	0.1709		58.4	62.5	-6.6	20.0
Chloroethane	Ave	0.1650	0.1850		70.1	62.5	12.1	20.0
Dichlorofluoromethane	Ave	0.4650	0.4527		60.9	62.5	-2.6	20.0
Trichlorofluoromethane	Ave	0.4717	0.3891		51.6	62.5	-17.5	20.0
Ethanol	Lin1		0.0004		2908	2000	45.4*	40.0
Diethyl ether	Ave	0.1271	0.1507		59.3	50.0	18.6	20.0
Acrolein	Lin1		0.0137		244	125	94.9*	40.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2632	0.2511		47.7	50.0	-4.6	20.0
1,1-Dichloroethene	Ave	0.2344	0.2390		51.0	50.0	2.0	20.0
Acetone	Ave	0.0074	0.0085		286	250	14.3	20.0
Iodomethane	Lin1		0.2403		33.5	50.0	-33.1*	20.0
Isopropyl alcohol	Lin1		0.0043		587	500	17.3	20.0
Carbon disulfide	Ave	0.5713	0.6067		53.1	50.0	6.2	20.0
3-Chloro-1-propene	Ave	0.1558	0.2341		75.2	50.0	50.3*	20.0
Acetonitrile	Ave	0.0396	0.0445		561	500	12.2	20.0
Methyl acetate	Ave	0.0926	0.0830		224	250	-10.4	20.0
Methylene Chloride	Lin2		0.2487		52.4	50.0	4.8	20.0
tert-Butyl alcohol (TBA)	Ave	0.0066	0.0074		565	500	12.9	40.0
Acrylonitrile	Ave	0.0340	0.0410		604	500	20.7*	20.0
Methyl tert-butyl ether	Ave	0.4782	0.4624		48.3	50.0	-3.3	20.0
trans-1,2-Dichloroethene	Ave	0.3145	0.3363		53.5	50.0	6.9	20.0
Hexane	Ave	0.3059	0.3462		56.6	50.0	13.2	20.0
1,1-Dichloroethane	Ave	0.4187	0.4494	0.1000	53.7	50.0	7.3	20.0
Vinyl acetate	Ave	0.1854	0.4323		233	100	133.1*	40.0
Diisopropyl ether	Ave	0.5891	0.6837		58.0	50.0	16.0	20.0
Chloroprene	Ave	0.3567	0.3756		52.7	50.0	5.3	20.0
Ethyl tert-butyl ether	Ave	0.5568	0.5733		51.5	50.0	3.0	20.0
2,2-Dichloropropane	Ave	0.4061	0.3186		39.2	50.0	-21.6*	20.0
cis-1,2-Dichloroethene	Ave	0.3786	0.3801		50.2	50.0	0.4	20.0
2-Butanone (MEK)	Ave	0.0120	0.0134		279	250	11.4	20.0
Ethyl acetate	Ave	0.0675	0.1165		173	100	72.7*	20.0
Propionitrile	Ave	0.0121	0.0148		614	500	22.8*	20.0
Methacrylonitrile	Ave	0.0596	0.0682		572	500	14.3	20.0
Bromochloromethane	Ave	0.1637	0.1506		46.0	50.0	-8.0	20.0
Tetrahydrofuran	Ave	0.0241	0.0301		125	100	24.8*	20.0
Chloroform	Ave	0.4876	0.4333		44.4	50.0	-11.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCVIS 490-240982/2 Calibration Date: 04/14/2015 03:02

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 041315-39.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.4579	0.3848		42.0	50.0	-16.0	20.0
Cyclohexane	Ave	0.4005	0.4432		55.3	50.0	10.7	20.0
1,1-Dichloropropene	Ave	0.3344	0.3605		53.9	50.0	7.8	20.0
Carbon tetrachloride	Ave	0.3997	0.3498		43.8	50.0	-12.5	20.0
Isobutanol	Ave	0.0064	0.0034		675	1250	-46.0*	20.0
Benzene	Ave	1.019	1.060		52.0	50.0	4.0	20.0
t-Amyl alcohol	Ave	0.0054	0.0061		567	500	13.4	40.0
1,2-Dichloroethane	Ave	0.2954	0.2601		44.0	50.0	-11.9	20.0
Tert-amyl methyl ether	Ave	0.5018	0.4894		48.8	50.0	-2.5	20.0
Heptane	Ave	0.2724	0.2938		53.9	50.0	7.9	20.0
n-Butanol	Ave	0.0017	0.0022		1594	1250	27.5*	20.0
Trichloroethene	Ave	0.3147	0.2909		46.2	50.0	-7.6	20.0
Ethyl acrylate	Lin1		0.1378		53.3	50.0	6.5	20.0
Methylcyclohexane	Ave	0.4588	0.4677		51.0	50.0	1.9	20.0
1,2-Dichloropropane	Ave	0.2260	0.2462		54.5	50.0	8.9	20.0
Methyl methacrylate	Ave	0.0994	0.1100		111	100	10.6	20.0
Dibromomethane	Ave	0.1201	0.1089		45.3	50.0	-9.4	20.0
1,4-Dioxane	Ave	0.0006	0.0008		1321	1000	32.1*	20.0
Bromodichloromethane	Ave	0.3310	0.3038		45.9	50.0	-8.2	20.0
2-Nitropropane	Lin1		0.0296		99.6	100	-0.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1070	0.1189		55.6	50.0	11.1	20.0
cis-1,3-Dichloropropene	Ave	0.4482	0.4796		53.5	50.0	7.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0485	0.0561		290	250	15.8	20.0
Toluene	Ave	1.552	1.524		49.1	50.0	-1.8	20.0
trans-1,3-Dichloropropene	Ave	0.3412	0.3593		52.7	50.0	5.3	20.0
Ethyl methacrylate	Ave	0.2516	0.2595		51.6	50.0	3.2	20.0
1,1,2-Trichloroethane	Ave	0.2262	0.2174		48.1	50.0	-3.9	20.0
Tetrachloroethene	Ave	0.4358	0.4069		46.7	50.0	-6.6	20.0
1,3-Dichloropropane	Ave	0.3490	0.3845		55.1	50.0	10.2	20.0
2-Hexanone	Ave	0.0401	0.0490		305	250	22.1*	20.0
Chlorodibromomethane	Lin2		0.2070		50.6	50.0	1.3	20.0
n-Butyl acetate	Ave	0.1038	0.1480		71.3	50.0	42.6*	20.0
1,2-Dibromoethane (EDB)	Ave	0.2025	0.2033		50.2	50.0	0.4	20.0
1-Chlorohexane	Ave	0.3775	0.3677		48.7	50.0	-2.6	20.0
Chlorobenzene	Ave	0.9832	1.002	0.3000	50.9	50.0	1.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3315	0.3353		50.6	50.0	1.2	20.0
Ethylbenzene	Ave	1.634	1.688		51.6	50.0	3.3	20.0
m,p-Xylene	Ave	1.317	1.321		50.1	50.0	0.2	20.0
o-Xylene	Ave	1.305	1.330		51.0	50.0	1.9	20.0
Styrene	Ave	1.032	1.093		52.9	50.0	5.8	20.0
Bromoform	Ave	0.1272	0.1360	0.1000	53.4	50.0	6.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCVIS 490-240982/2 Calibration Date: 04/14/2015 03:02

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 041315-39.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	1.716	1.690		49.3	50.0	-1.5	20.0
Cyclohexanone	Lin2		0.0031		734	500	46.8*	20.0
Bromobenzene	Ave	0.9110	0.9807		53.8	50.0	7.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.3571	0.4033	0.3000	56.5	50.0	13.0	20.0
1,2,3-Trichloropropane	Ave	0.1253	0.1230		49.1	50.0	-1.8	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.0901		48.0	50.0	-4.0	20.0
N-Propylbenzene	Ave	3.255	3.534		54.3	50.0	8.6	20.0
2-Chlorotoluene	Ave	2.030	2.075		51.1	50.0	2.2	20.0
1,3,5-Trimethylbenzene	Ave	2.478	2.546		51.4	50.0	2.8	20.0
4-Chlorotoluene	Ave	2.297	2.413		52.5	50.0	5.0	20.0
tert-Butylbenzene	Ave	2.206	2.220		50.3	50.0	0.6	20.0
1,2,4-Trimethylbenzene	Ave	2.510	2.570		51.2	50.0	2.4	20.0
sec-Butylbenzene	Ave	3.069	3.244		52.9	50.0	5.7	20.0
1,3-Dichlorobenzene	Ave	1.362	1.401		51.4	50.0	2.9	20.0
p-Isopropyltoluene	Ave	2.723	2.813		51.7	50.0	3.3	20.0
1,4-Dichlorobenzene	Ave	1.444	1.431		49.6	50.0	-0.9	20.0
1,2,3-Trimethylbenzene	Ave	2.410	2.481		51.5	50.0	2.9	20.0
Benzyl chloride	Lin1		0.2897		34.6	50.0	-30.7*	20.0
1,2-Dichlorobenzene	Ave	1.203	1.230		51.1	50.0	2.2	20.0
n-Butylbenzene	Ave	2.065	2.296		55.6	50.0	11.2	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0712		51.6	50.0	3.2	20.0
1,3,5-Trichlorobenzene	Ave	0.8004	0.8887		55.5	50.0	11.0	20.0
1,2,4-Trichlorobenzene	Ave	0.5849	0.7106		60.8	50.0	21.5*	20.0
Hexachlorobutadiene	Ave	0.3135	0.3535		56.4	50.0	12.8	20.0
Naphthalene	Ave	0.9218	1.213		65.8	50.0	31.6*	20.0
1,2,3-Trichlorobenzene	Ave	0.4437	0.5669		63.9	50.0	27.8*	20.0
Dibromofluoromethane (Surr)	Ave	0.2485	0.2341		23.6	25.0	-5.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2302	0.2101		22.8	25.0	-8.7	30.0
Toluene-d8 (Surr)	Ave	1.280	1.291		25.2	25.0	0.9	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8031	0.8069		25.1	25.0	0.5	30.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-240523/6

Matrix: Water | Lab File ID: 041015-37.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 01:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240523 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-240821/7

Matrix: Water | Lab File ID: 041315-07.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/13/2015 13:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240821 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-240926/7

Matrix: Water | Lab File ID: 041315-17.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/13/2015 17:15

Soil Aliquot Vol: 10 (mL) | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240926 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-240980/7

Matrix: Water | Lab File ID: 041315-32.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 00:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240980 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-240982/7

Matrix: Water | Lab File ID: 041315-44.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 05:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240982 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-240523/3

Matrix: Water | Lab File ID: 041015-34.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 00:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240523 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	48.85		1.00	0.210
75-35-4	1,1-Dichloroethene	47.38		1.00	0.250
127-18-4	Tetrachloroethene	42.46		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	50.82		1.00	0.230
79-01-6	Trichloroethene	43.07		1.00	0.200
75-01-4	Vinyl chloride	64.22		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
460-00-4	4-Bromofluorobenzene (Surr)	111		70-130
1868-53-7	Dibromofluoromethane (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-240821/3

Matrix: Water | Lab File ID: 041315-03.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/13/2015 11:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240821 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	44.52		1.00	0.210
75-35-4	1,1-Dichloroethene	44.33		1.00	0.250
127-18-4	Tetrachloroethene	54.33		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	43.06		1.00	0.230
79-01-6	Trichloroethene	53.86		1.00	0.200
75-01-4	Vinyl chloride	63.99		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-240926/4

Matrix: Water | Lab File ID: 041315-14.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/13/2015 15:55

Soil Aliquot Vol: 10 (mL) | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240926 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	52.40		1.00	0.210
75-35-4	1,1-Dichloroethene	52.03		1.00	0.250
127-18-4	Tetrachloroethene	47.11		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	55.06		1.00	0.230
79-01-6	Trichloroethene	47.59		1.00	0.200
75-01-4	Vinyl chloride	74.78		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		70-130
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
1868-53-7	Dibromofluoromethane (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-240980/3

Matrix: Water | Lab File ID: 041315-28.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/13/2015 23:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240980 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	42.56		1.00	0.210
75-35-4	1,1-Dichloroethene	41.99		1.00	0.250
127-18-4	Tetrachloroethene	50.93		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	41.52		1.00	0.230
79-01-6	Trichloroethene	52.64		1.00	0.200
75-01-4	Vinyl chloride	59.38		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
1868-53-7	Dibromofluoromethane (Surr)	89		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-240982/3

Matrix: Water | Lab File ID: 041315-40.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 03:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240982 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	49.75		1.00	0.210
75-35-4	1,1-Dichloroethene	50.99		1.00	0.250
127-18-4	Tetrachloroethene	46.40		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	52.81		1.00	0.230
79-01-6	Trichloroethene	46.05		1.00	0.200
75-01-4	Vinyl chloride	69.21		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		70-130
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
1868-53-7	Dibromofluoromethane (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 490-240821/4

Matrix: Water | Lab File ID: 041315-04.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/13/2015 11:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240821 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	44.72		1.00	0.210
75-35-4	1,1-Dichloroethene	44.28		1.00	0.250
127-18-4	Tetrachloroethene	52.32		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	43.01		1.00	0.230
79-01-6	Trichloroethene	53.26		1.00	0.200
75-01-4	Vinyl chloride	62.74		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 490-240980/4

Matrix: Water | Lab File ID: 041315-29.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/13/2015 23:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240980 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	41.88		1.00	0.210
75-35-4	1,1-Dichloroethene	41.10		1.00	0.250
127-18-4	Tetrachloroethene	49.52		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	40.41		1.00	0.230
79-01-6	Trichloroethene	51.74		1.00	0.200
75-01-4	Vinyl chloride	57.50		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 490-240982/4

Matrix: Water | Lab File ID: 041315-41.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 03:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240982 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	49.59		1.00	0.210
75-35-4	1,1-Dichloroethene	50.73		1.00	0.250
127-18-4	Tetrachloroethene	45.04		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	52.84		1.00	0.230
79-01-6	Trichloroethene	46.93		1.00	0.200
75-01-4	Vinyl chloride	69.21		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-130
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SWMW-5-GW-HS-040215 MS | Lab Sample ID: 490-75790-8 MS

Matrix: Water | Lab File ID: 041315-54.D

Analysis Method: 8260B | Date Collected: 04/02/2015 12:45

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 09:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240982 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	66.25		1.00	0.210
75-35-4	1,1-Dichloroethene	56.16		1.00	0.250
127-18-4	Tetrachloroethene	55.01		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	57.14		1.00	0.230
79-01-6	Trichloroethene	60.15		1.00	0.200
75-01-4	Vinyl chloride	86.31		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-130
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
1868-53-7	Dibromofluoromethane (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: BRMW-09-GW-HS-040215 MS | Lab Sample ID: 490-75790-18 MS

Matrix: Water | Lab File ID: 041315-36.D

Analysis Method: 8260B | Date Collected: 04/02/2015 14:55

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 01:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240926 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	52.73		1.00	0.210
75-35-4	1,1-Dichloroethene	55.01		1.00	0.250
127-18-4	Tetrachloroethene	48.68		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	57.09		1.00	0.230
79-01-6	Trichloroethene	48.80		1.00	0.200
75-01-4	Vinyl chloride	76.35		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		70-130
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SWMW-5-GW-HS-040215 MSD | Lab Sample ID: 490-75790-8 MSD

Matrix: Water | Lab File ID: 041315-55.D

Analysis Method: 8260B | Date Collected: 04/02/2015 12:45

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 10:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240982 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	60.52		1.00	0.210
75-35-4	1,1-Dichloroethene	51.42		1.00	0.250
127-18-4	Tetrachloroethene	50.23		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	51.91		1.00	0.230
79-01-6	Trichloroethene	55.01		1.00	0.200
75-01-4	Vinyl chloride	77.41		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		70-130
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
1868-53-7	Dibromofluoromethane (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: BRMW-09-GW-HS-040215 MSD | Lab Sample ID: 490-75790-18 MSD

Matrix: Water | Lab File ID: 041315-37.D

Analysis Method: 8260B | Date Collected: 04/02/2015 14:55

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 02:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240926 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	52.92		1.00	0.210
75-35-4	1,1-Dichloroethene	55.52		1.00	0.250
127-18-4	Tetrachloroethene	49.09		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	56.70		1.00	0.230
79-01-6	Trichloroethene	48.58		1.00	0.200
75-01-4	Vinyl chloride	76.23		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-130
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP25 Start Date: 04/01/2015 13:25

Analysis Batch Number: 238076 End Date: 04/01/2015 18:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-238076/4		04/01/2015 13:25	1	040115-04.D	DB-624 0.18(mm)
STD0005 490-238076/5 IC		04/01/2015 13:52	1	040115-05.D	DB-624 0.18(mm)
STD001 490-238076/6 IC		04/01/2015 14:19	1	040115-06.D	DB-624 0.18(mm)
STD002 490-238076/7 IC		04/01/2015 14:47	1	040115-07.D	DB-624 0.18(mm)
STD010 490-238076/8 IC		04/01/2015 15:14	1	040115-08.D	DB-624 0.18(mm)
STD020 490-238076/9 IC		04/01/2015 15:42	1	040115-09.D	DB-624 0.18(mm)
ICIS 490-238076/10		04/01/2015 16:09	1	040115-10.D	DB-624 0.18(mm)
STD100 490-238076/11 IC		04/01/2015 16:37	1	040115-11.D	DB-624 0.18(mm)
STD200 490-238076/12 IC		04/01/2015 17:04	1	040115-12.D	DB-624 0.18(mm)
ICV 490-238076/15		04/01/2015 18:26	1	040115-15.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP25 Start Date: 04/13/2015 10:15

Analysis Batch Number: 240821 End Date: 04/13/2015 21:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-240821/1		04/13/2015 10:15	1	041315-01.D	DB-624 0.18(mm)
CCVIS 490-240821/2		04/13/2015 10:44	1	041315-02.D	DB-624 0.18(mm)
LCS 490-240821/3		04/13/2015 11:12	1	041315-03.D	DB-624 0.18(mm)
LCSD 490-240821/4		04/13/2015 11:41	1	041315-04.D	DB-624 0.18(mm)
MB 490-240821/7		04/13/2015 13:06	1	041315-07.D	DB-624 0.18(mm)
ZZZZZ		04/13/2015 13:34	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 14:03	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 14:31	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 15:28	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 15:57	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 16:25	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 16:54	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 17:23	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 17:51	10		DB-624 0.18(mm)
490-75790-3	SPRW-205-GW-HS-040215	04/13/2015 18:19	1	041315-18.D	DB-624 0.18(mm)
490-75790-3 DL	SPRW-205-GW-HS-040215 DL	04/13/2015 18:47	5	041315-19.D	DB-624 0.18(mm)
490-75790-6	SPRW-206-GW-HS-040215	04/13/2015 19:16	1	041315-20.D	DB-624 0.18(mm)
490-75790-6 DL	SPRW-206-GW-HS-040215 DL	04/13/2015 19:44	5	041315-21.D	DB-624 0.18(mm)
490-75790-14	SWMW-6-GW-HS-040215	04/13/2015 20:13	1	041315-22.D	DB-624 0.18(mm)
490-75790-14 DL	SWMW-6-GW-HS-040215 DL	04/13/2015 20:42	5	041315-23.D	DB-624 0.18(mm)
ZZZZZ		04/13/2015 21:10	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 21:39	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP25 Start Date: 04/13/2015 22:07

Analysis Batch Number: 240980 End Date: 04/14/2015 09:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-240980/1		04/13/2015 22:07	1	041315-26.D	DB-624 0.18(mm)
CCVIS 490-240980/2		04/13/2015 22:35	1	041315-27.D	DB-624 0.18(mm)
LCS 490-240980/3		04/13/2015 23:04	1	041315-28.D	DB-624 0.18(mm)
LCSD 490-240980/4		04/13/2015 23:32	1	041315-29.D	DB-624 0.18(mm)
MB 490-240980/7		04/14/2015 00:58	1	041315-32.D	DB-624 0.18(mm)
ZZZZZ		04/14/2015 02:23	1		DB-624 0.18(mm)
490-75790-7	SBMW-6-GW-HS-040215	04/14/2015 06:40	1	041315-44.D	DB-624 0.18(mm)
490-75790-7 DL	SBMW-6-GW-HS-040215 DL	04/14/2015 07:08	10	041315-45.D	DB-624 0.18(mm)
490-75790-5	SPRW-201-GW-HS-040215	04/14/2015 07:37	1	041315-46.D	DB-624 0.18(mm)
490-75790-5 DL	SPRW-201-GW-HS-040215 DL	04/14/2015 08:34	20	041315-48.D	DB-624 0.18(mm)
ZZZZZ		04/14/2015 09:18	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 09:46	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP32 Start Date: 03/13/2015 10:59

Analysis Batch Number: 233414 End Date: 03/13/2015 15:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-233414/1		03/13/2015 10:59	1	031315-01.D	DB-624 0.18(mm)
STD0005 490-233414/2 IC		03/13/2015 11:26	1	031315-02.D	DB-624 0.18(mm)
STD001 490-233414/3 IC		03/13/2015 11:52	1	031315-03.D	DB-624 0.18(mm)
STD002 490-233414/4 IC		03/13/2015 12:19	1	031315-04.D	DB-624 0.18(mm)
STD010 490-233414/5 IC		03/13/2015 12:45	1	031315-05.D	DB-624 0.18(mm)
STD020 490-233414/6 IC		03/13/2015 13:12	1	031315-06.D	DB-624 0.18(mm)
ICIS 490-233414/7		03/13/2015 13:38	1	031315-07.D	DB-624 0.18(mm)
STD100 490-233414/8 IC		03/13/2015 14:05	1	031315-08.D	DB-624 0.18(mm)
STD200 490-233414/9 IC		03/13/2015 14:31	1	031315-09.D	DB-624 0.18(mm)
ICV 490-233414/12		03/13/2015 15:50	1	031315-12.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP32 Start Date: 04/10/2015 23:40

Analysis Batch Number: 240523 End Date: 04/11/2015 11:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-240523/1		04/10/2015 23:40	1	041015-32.D	DB-624 0.18(mm)
CCVIS 490-240523/2		04/11/2015 00:06	1	041015-33.D	DB-624 0.18(mm)
LCS 490-240523/3		04/11/2015 00:32	1	041015-34.D	DB-624 0.18(mm)
MB 490-240523/6		04/11/2015 01:51	1	041015-37.D	DB-624 0.18(mm)
ZZZZZ		04/11/2015 02:17	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 02:44	1		DB-624 0.18(mm)
490-75790-15	SPMW-5-GW-HS-040215	04/11/2015 03:09	1	041015-40.D	DB-624 0.18(mm)
490-75790-16	SPMW-6-GW-HS-040215	04/11/2015 03:36	1	041015-41.D	DB-624 0.18(mm)
490-75790-17	SPMW-9-GW-HS-040215	04/11/2015 04:02	1	041015-42.D	DB-624 0.18(mm)
490-75790-19	BRMW-08-GW-HS-040215	04/11/2015 04:29	1	041015-43.D	DB-624 0.18(mm)
490-75790-20	BRMW-03-GW-HS-040215	04/11/2015 04:55	1	041015-44.D	DB-624 0.18(mm)
490-75790-21	BRMW-03A-GW-HS-040215	04/11/2015 05:22	1	041015-45.D	DB-624 0.18(mm)
490-75790-22	BRMW-14-GW-HS-040215	04/11/2015 05:48	1	041015-46.D	DB-624 0.18(mm)
490-75790-23	BRMW-14A-GW-HS-040215	04/11/2015 06:15	1	041015-47.D	DB-624 0.18(mm)
490-75790-24	BRMW-12A-GW-HS-040215	04/11/2015 06:41	1	041015-48.D	DB-624 0.18(mm)
490-75790-25	BRMW-02-GW-HS-040215	04/11/2015 07:07	1	041015-49.D	DB-624 0.18(mm)
490-75790-26	BRMW-02A-GW-HS-040215	04/11/2015 07:34	1	041015-50.D	DB-624 0.18(mm)
ZZZZZ		04/11/2015 08:00	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 08:26	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 08:52	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 09:19	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 09:45	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 10:11	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 10:37	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 11:04	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP32 Start Date: 04/13/2015 14:35

Analysis Batch Number: 240926 End Date: 04/14/2015 02:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-240926/1		04/13/2015 14:35	1	041315-11.D	DB-624 0.18(mm)
CCVIS 490-240926/2		04/13/2015 15:01	1	041315-12.D	DB-624 0.18(mm)
LCS 490-240926/4		04/13/2015 15:55	1	041315-14.D	DB-624 0.18(mm)
MB 490-240926/7		04/13/2015 17:15	1	041315-17.D	DB-624 0.18(mm)
490-75790-1	TB-02-040215	04/13/2015 17:42	1	041315-18.D	DB-624 0.18(mm)
490-75790-18	BRMW-09-GW-HS-040215	04/13/2015 18:08	1	041315-19.D	DB-624 0.18(mm)
ZZZZZ		04/13/2015 18:35	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 19:01	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 19:28	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 19:54	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 20:21	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 20:48	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 21:15	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 21:41	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 22:08	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 22:34	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 23:01	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 23:28	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 23:55	1		DB-624 0.18(mm)
490-75790-2	SPMW-18-GW-HS-040215	04/14/2015 00:22	1	041315-33.D	DB-624 0.18(mm)
490-75790-4	SPRW-204-GW-HS-040215	04/14/2015 00:49	1	041315-34.D	DB-624 0.18(mm)
490-75790-18 MS	BRMW-09-GW-HS-040215 MS	04/14/2015 01:42	1	041315-36.D	DB-624 0.18(mm)
490-75790-18 MSD	BRMW-09-GW-HS-040215 MSD	04/14/2015 02:09	1	041315-37.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP32 Start Date: 04/14/2015 02:35

Analysis Batch Number: 240982 End Date: 04/14/2015 10:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-240982/1		04/14/2015 02:35	1	041315-38.D	DB-624 0.18(mm)
CCVIS 490-240982/2		04/14/2015 03:02	1	041315-39.D	DB-624 0.18(mm)
LCS 490-240982/3		04/14/2015 03:29	1	041315-40.D	DB-624 0.18(mm)
LCSD 490-240982/4		04/14/2015 03:55	1	041315-41.D	DB-624 0.18(mm)
MB 490-240982/7		04/14/2015 05:15	1	041315-44.D	DB-624 0.18(mm)
490-75790-8	SWMW-5-GW-HS-040215	04/14/2015 05:41	1	041315-45.D	DB-624 0.18(mm)
490-75790-9	SAMW-2-GW-HS-040215	04/14/2015 06:08	1	041315-46.D	DB-624 0.18(mm)
490-75790-12	SBMW-3-GW-HS-040215	04/14/2015 06:35	1	041315-47.D	DB-624 0.18(mm)
490-75790-13	SBMW-7-GW-HS-040215	04/14/2015 07:01	1	041315-48.D	DB-624 0.18(mm)
490-75790-10	SBMW-5-GW-HS-040215	04/14/2015 07:28	1	041315-49.D	DB-624 0.18(mm)
490-75790-11	SBMW-5-GW-HS-040215-FD	04/14/2015 07:54	1	041315-50.D	DB-624 0.18(mm)
490-75790-10 DL	SBMW-5-GW-HS-040215 DL	04/14/2015 08:48	20	041315-52.D	DB-624 0.18(mm)
490-75790-11 DL	SBMW-5-GW-HS-040215-FD DL	04/14/2015 09:14	20	041315-53.D	DB-624 0.18(mm)
490-75790-8 MS	SWMW-5-GW-HS-040215 MS	04/14/2015 09:41	1	041315-54.D	DB-624 0.18(mm)
490-75790-8 MSD	SWMW-5-GW-HS-040215 MSD	04/14/2015 10:07	1	041315-55.D	DB-624 0.18(mm)

Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTX-5 ID: 0.32 (mm) GC Column (2): RTX-50 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
SPMW-18-GW-HS-040215	490-75790-2	76			32
SBMW-6-GW-HS-040215	490-75790-7		71	40	
SWMW-5-GW-HS-040215	490-75790-8		83		60
SBMW-5-GW-HS-040215	490-75790-10		69		59
SBMW-5-GW-HS-040215-FD	490-75790-11		68		61
SWMW-6-GW-HS-040215	490-75790-14		56		45
	MB 490-239249/1-A	80			66
	LCS 490-239249/2-A	78			64

	QC LIMITS
TCX = Tetrachloro-m-xylene	10-150
DCB = DCB Decachlorobiphenyl (Surr)	10-150

Column to be used to flag recovery values

FORM II 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041415hp37.043dat.d

Lab ID: LCS 490-239249/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	5.00	4.367	87	23-139	
PCB-1260	5.00	3.699	74	36-144	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: MB 490-239249/1-A

Matrix: Water Date Extracted: 04/06/2015 13:34

Lab File ID:(1) 041415hp37.042dat.d Lab File ID:(2) 041415hp37.042dat.d

Date Analyzed:(1) 04/14/2015 22:39 Date Analyzed:(2) 04/14/2015 22:39

Instrument ID:(1) HP37 Instrument ID:(2) HP37

GC Column:(1) RTX-5 ID: 0.32(mm) GC Column:(2) RTX-50 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 490-239249/2-A	04/14/2015 22:55	04/14/2015 22:55
SPMW-18-GW-HS-040215	490-75790-2	04/15/2015 00:13	04/15/2015 00:13
SWMW-5-GW-HS-040215	490-75790-8	04/15/2015 00:44	04/15/2015 00:44
SWMW-6-GW-HS-040215	490-75790-14	04/15/2015 01:31	04/15/2015 01:31
SBMW-6-GW-HS-040215	490-75790-7	04/15/2015 10:52	04/15/2015 10:52
SBMW-5-GW-HS-040215	490-75790-10	04/15/2015 11:08	04/15/2015 11:08
SBMW-5-GW-HS-040215-FD	490-75790-11	04/15/2015 11:23	04/15/2015 11:23

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Sample No.: ICRT 490-237912/7 Date Analyzed: 03/31/2015 17:23

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): 033115hp37.007dat.d Heated Purge: (Y/N) N

Calibration ID: 38947

		TCX		DCB			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION SURROGATE		90020	2.06	70732	8.39		
UPPER LIMIT			2.16		8.49		
LOWER LIMIT			1.96		8.29		
LAB SAMPLE ID	CLIENT SAMPLE ID						

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Sample No.: ICRT 490-237912/7 Date Analyzed: 03/31/2015 17:23

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm)

Lab File ID (Standard): 033115hp37.007dat.d Heated Purge: (Y/N) N

Calibration ID: 38948

		TCX		DCB			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION SURROGATE		1369859	2.05	1363195	8.93		
UPPER LIMIT			2.15		9.03		
LOWER LIMIT			1.95		8.83		
LAB SAMPLE ID	CLIENT SAMPLE ID						

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Sample No.: CCVRT 490-241134/2 Date Analyzed: 04/14/2015 12:15

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): 041415hp37.002dat.d Heated Purge: (Y/N) N

Calibration ID: 38947

		TCX		DCB			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
CONTINUING CALIBRATION SURROGATE		147791	2.04	100137	8.36		
UPPER LIMIT		150	2.14	150	8.46		
LOWER LIMIT		10	1.94	10	8.26		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 490-239249/1-A		136060	2.04				
LCS 490-239249/2-A		135240	2.04				
490-75790-2	SPMW-18-GW-HS-040215	129407	2.04				
490-75790-7	SBMW-6-GW-HS-040215			6588	8.36		

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Sample No.: CCVRT 490-241134/2 Date Analyzed: 04/14/2015 12:15

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm)

Lab File ID (Standard): 041415hp37.002dat.d Heated Purge: (Y/N) N

Calibration ID: 38948

		TCX		DCB			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
CONTINUING CALIBRATION SURROGATE		1487816	2.04	1238931	8.91		
UPPER LIMIT		150	2.14	150	9.01		
LOWER LIMIT		10	1.94	10	8.81		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 490-239249/1-A				1065131	8.91		
LCS 490-239249/2-A				1041880	8.91		
490-75790-2	SPMW-18-GW-HS-040215			526894	8.91		
490-75790-8	SWMW-5-GW-HS-040215	1342708	2.04	949717	8.91		
490-75790-14	SWMW-6-GW-HS-040215	920128	2.04	721216	8.91		
490-75790-7	SBMW-6-GW-HS-040215	131157	2.04				
490-75790-10	SBMW-5-GW-HS-040215	236258	2.04	196370	8.91		
490-75790-11	SBMW-5-GW-HS-040215-FD	229088	2.04	197518	8.91		

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: SBMW-6-GW-HS-040215 Lab Sample ID: 490-75790-7

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/15/2015 10:52 Date Analyzed (2): 04/15/2015 10:52

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	3.57	3.54	3.60	128	92.1	31.6
		2	3.66	3.63	3.69	111		
		4	4.05	4.02	4.08	69.6		
		5	4.27	4.24	4.30	59.9		
	2	1	3.79	3.76	3.82	110	67.0	
		2	3.93	3.90	3.96	122		
		3	4.21	4.18	4.24	8.65		
		4	4.26	4.24	4.30	60.5		
		5	4.54	4.50	4.56	34.0		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: SWMW-5-GW-HS-040215 Lab Sample ID: 490-75790-8

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/15/2015 00:44 Date Analyzed (2): 04/15/2015 00:44

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	3.57	3.54	3.60	5.22	5.36	19.5
		2	3.66	3.63	3.69	5.57		
		3	4.02	3.99	4.05	3.32		
		4	4.05	4.02	4.08	6.12		
		5	4.28	4.24	4.30	6.58		
	2	1	3.79	3.76	3.82	6.26	6.52	
		2	3.93	3.90	3.96	8.25		
		3	4.21	4.18	4.24	4.76		
		4	4.27	4.24	4.30	6.39		
		5	4.53	4.50	4.56	6.97		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: SBMW-5-GW-HS-040215 Lab Sample ID: 490-75790-10

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/15/2015 11:08 Date Analyzed (2): 04/15/2015 11:08

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	3.57	3.54	3.60	30.2	18.7	36.6
		2	3.66	3.63	3.69	25.0		
		4	4.05	4.02	4.08	8.92		
		5	4.27	4.24	4.30	10.6		
	2	1	3.79	3.76	3.82	25.2	12.9	
		2	3.93	3.90	3.96	23.1		
		3	4.21	4.18	4.24	0.550		
		4	4.26	4.24	4.30	8.17		
		5	4.53	4.50	4.56	7.46		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: SBMW-5-GW-HS-040215-FD Lab Sample ID: 490-75790-11

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/15/2015 11:23 Date Analyzed (2): 04/15/2015 11:23

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	3.57	3.54	3.60	33.5	21.0	37.2
		2	3.66	3.63	3.69	28.4		
		4	4.05	4.02	4.08	9.94		
		5	4.27	4.24	4.30	12.0		
	2	1	3.79	3.76	3.82	28.3	14.4	
		2	3.93	3.90	3.96	25.8		
		3	4.21	4.18	4.24	0.604		
		4	4.26	4.24	4.30	9.02		
		5	4.53	4.50	4.56	8.27		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: SWMW-6-GW-HS-040215 Lab Sample ID: 490-75790-14

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/15/2015 01:31 Date Analyzed (2): 04/15/2015 01:31

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	3.57	3.54	3.60	7.05	4.82	29.5
		2	3.66	3.63	3.69	6.15		
		4	4.05	4.02	4.08	3.25		
		5	4.27	4.24	4.30	2.83		
	2	1	3.79	3.76	3.82	6.60	3.58	
		2	3.93	3.90	3.96	6.16		
		3	4.21	4.18	4.24	0.298		
		4	4.26	4.24	4.30	3.22		
		5	4.54	4.50	4.56	1.62		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 490-239249/2-A

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/14/2015 22:55 Date Analyzed (2): 04/14/2015 22:55

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.31	2.28	2.34	4.70	4.681	6.9
		2	2.60	2.57	2.63	4.92		
		3	2.77	2.74	2.80	4.21		
		4	2.79	2.76	2.82	4.46		
		5	3.03	3.00	3.06	5.11		
	2	1	2.40	2.37	2.43	4.28	4.367	
		2	2.74	2.71	2.77	3.80		
		3	2.94	2.91	2.97	4.28		
		4	2.97	2.94	3.00	4.49		
		5	3.17	3.14	3.20	4.99		
PCB-1260	1	1	4.95	4.92	4.98	4.57	4.445	18.3
		2	5.29	5.26	5.32	4.86		
		3	5.64	5.61	5.67	4.85		
		4	6.10	6.07	6.13	3.90		
		5	6.50	6.47	6.53	4.04		
	2	1	5.53	5.50	5.56	3.78	3.699	
		2	5.99	5.96	6.02	4.38		
		3	6.50	6.47	6.53	3.37		
		4	6.59	6.56	6.62	3.78		
		5	6.83	6.80	6.86	3.18		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SPMW-18-GW-HS-040215 | Lab Sample ID: 490-75790-2

Matrix: Water | Lab File ID: 041415hp37.048dat.d

Analysis Method: 8082A | Date Collected: 04/02/2015 09:30

Extraction Method: 3510C | Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1060(mL) | Date Analyzed: 04/15/2015 00:13

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.472	U	0.472	0.0604
12672-29-6	PCB-1248	0.472	U	0.472	0.0651
11097-69-1	PCB-1254	0.472	U	0.472	0.00660

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	76		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: SPMW-18-GW-HS-040215 Lab Sample ID: 490-75790-2

Matrix: Water Lab File ID: 041415hp37.048dat.d

Analysis Method: 8082A Date Collected: 04/02/2015 09:30

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1060(mL) Date Analyzed: 04/15/2015 00:13

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-50 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	32		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SBMW-6-GW-HS-040215 | Lab Sample ID: 490-75790-7

Matrix: Water | Lab File ID: 041415hp37.075dat.d

Analysis Method: 8082A | Date Collected: 04/02/2015 12:30

Extraction Method: 3510C | Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1040(mL) | Date Analyzed: 04/15/2015 10:52

Con. Extract Vol.: 5(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	4.81	U	4.81	0.615
11097-69-1	PCB-1254	4.81	U	4.81	0.0673

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	40		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SBMW-6-GW-HS-040215 | Lab Sample ID: 490-75790-7

Matrix: Water | Lab File ID: 041415hp37.075dat.d

Analysis Method: 8082A | Date Collected: 04/02/2015 12:30

Extraction Method: 3510C | Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1040(mL) | Date Analyzed: 04/15/2015 10:52

Con. Extract Vol.: 5(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RTX-50 ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12672-29-6	PCB-1248	67.0		4.81	0.663

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	71		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: SWMW-5-GW-HS-040215 Lab Sample ID: 490-75790-8

Matrix: Water Lab File ID: 041415hp37.050dat.d

Analysis Method: 8082A Date Collected: 04/02/2015 12:45

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 450(mL) Date Analyzed: 04/15/2015 00:44

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	1.11	U	1.11	0.142
12672-29-6	PCB-1248	5.36		1.11	0.153
11097-69-1	PCB-1254	1.11	U	1.11	0.0156

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: SWMW-5-GW-HS-040215 Lab Sample ID: 490-75790-8

Matrix: Water Lab File ID: 041415hp37.050dat.d

Analysis Method: 8082A Date Collected: 04/02/2015 12:45

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 450(mL) Date Analyzed: 04/15/2015 00:44

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-50 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	60		10-150
877-09-8	Tetrachloro-m-xylene	83		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: SBMW-5-GW-HS-040215 Lab Sample ID: 490-75790-10

Matrix: Water Lab File ID: 041415hp37.076dat.d

Analysis Method: 8082A Date Collected: 04/02/2015 14:45

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 980(mL) Date Analyzed: 04/15/2015 11:08

Con. Extract Vol.: 5(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	2.55	U	2.55	0.327
11097-69-1	PCB-1254	2.55	U	2.55	0.0357

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SBMW-5-GW-HS-040215 | Lab Sample ID: 490-75790-10

Matrix: Water | Lab File ID: 041415hp37.076dat.d

Analysis Method: 8082A | Date Collected: 04/02/2015 14:45

Extraction Method: 3510C | Date Extracted: 04/06/2015 13:34

Sample wt/vol: 980(mL) | Date Analyzed: 04/15/2015 11:08

Con. Extract Vol.: 5(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RTX-50 ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12672-29-6	PCB-1248	12.9		2.55	0.352

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	59		10-150
877-09-8	Tetrachloro-m-xylene	69		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: SBMW-5-GW-HS-040215-FD Lab Sample ID: 490-75790-11

Matrix: Water Lab File ID: 041415hp37.077dat.d

Analysis Method: 8082A Date Collected: 04/02/2015 14:50

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1070(mL) Date Analyzed: 04/15/2015 11:23

Con. Extract Vol.: 5(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	2.34	U	2.34	0.299
11097-69-1	PCB-1254	2.34	U	2.34	0.0327

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SBMW-5-GW-HS-040215-FD | Lab Sample ID: 490-75790-11

Matrix: Water | Lab File ID: 041415hp37.077dat.d

Analysis Method: 8082A | Date Collected: 04/02/2015 14:50

Extraction Method: 3510C | Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1070(mL) | Date Analyzed: 04/15/2015 11:23

Con. Extract Vol.: 5(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RTX-50 ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12672-29-6	PCB-1248	14.4		2.34	0.322

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	61		10-150
877-09-8	Tetrachloro-m-xylene	68		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: SWMW-6-GW-HS-040215 Lab Sample ID: 490-75790-14

Matrix: Water Lab File ID: 041415hp37.053dat.d

Analysis Method: 8082A Date Collected: 04/02/2015 16:30

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1040(mL) Date Analyzed: 04/15/2015 01:31

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.481	U	0.481	0.0615
11097-69-1	PCB-1254	0.481	U	0.481	0.00673

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: SWMW-6-GW-HS-040215 | Lab Sample ID: 490-75790-14

Matrix: Water | Lab File ID: 041415hp37.053dat.d

Analysis Method: 8082A | Date Collected: 04/02/2015 16:30

Extraction Method: 3510C | Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1040(mL) | Date Analyzed: 04/15/2015 01:31

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-50 ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12672-29-6	PCB-1248	3.58		0.481	0.0663

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	45		10-150
877-09-8	Tetrachloro-m-xylene	56		10-150

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 01:54 Calibration End Date: 03/31/2015 03:27 Calibration ID: 38921

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/25	033015hp37.025dat.d
Level 2	IC 490-237639/26	033015hp37.026dat.d
Level 3	IC 490-237639/27	033015hp37.027dat.d
Level 4	IC 490-237639/28	033015hp37.028dat.d
Level 5	ICIS 490-237639/29	033015hp37.029dat.d
Level 6	IC 490-237639/30	033015hp37.030dat.d
Level 7	IC 490-237639/31	033015hp37.031dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1221 Peak 1	0.0206 0.0154	0.0192 0.0157	0.0175	0.0173	0.0161	Lin2	0.0001	0.0161							0.9980		0.9900
PCB-1221 Peak 2	0.0536 0.0356	0.0492 0.0364	0.0419	0.0388	0.0378	Lin2	0.0005	0.0372							0.9980		0.9900
PCB-1221 Peak 3	0.0086 0.0054	0.0063 0.0057	0.0066	0.0060	0.0057	Lin2	0.0001	0.0057							0.9900		0.9900
PCB-1254 Peak 1	0.0713 0.0519	0.0548 0.0551	0.0580	0.0496	0.0518	Lin2	0.0005	0.0518							0.9930		0.9900
PCB-1254 Peak 2	0.1273 0.0889	0.1013 0.0941	0.0962	0.0870	0.0885	Lin2	0.0010	0.0885							0.9960		0.9900
PCB-1254 Peak 3	0.0991 0.0685	0.0821 0.0721	0.0743	0.0652	0.0678	Lin2	0.0009	0.0678							0.9970		0.9900
PCB-1254 Peak 4	0.0926 0.0638	0.0727 0.0673	0.0698	0.0635	0.0636	Lin2	0.0008	0.0637							0.9960		0.9900
PCB-1254 Peak 5	0.1359 0.0944	0.1059 0.0989	0.1016	0.0919	0.0931	Lin2	0.0011	0.0932							0.9960		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 01:54 Calibration End Date: 03/31/2015 03:27 Calibration ID: 38921

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/25	033015hp37.025dat.d
Level 2	IC 490-237639/26	033015hp37.026dat.d
Level 3	IC 490-237639/27	033015hp37.027dat.d
Level 4	IC 490-237639/28	033015hp37.028dat.d
Level 5	ICIS 490-237639/29	033015hp37.029dat.d
Level 6	IC 490-237639/30	033015hp37.030dat.d
Level 7	IC 490-237639/31	033015hp37.031dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	BNB	Lin2	471 23337	568 37232	2566	6306	11610	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1221 Peak 2	BNB	Lin2	1223 53921	1454 86150	6154	14171	27293	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1221 Peak 3	BNB	Lin2	196 8126	185 13550	967	2201	4118	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 1	BNB	Lin2	1628 78698	1620 130588	8513	18131	37396	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 2	BNB	Lin2	2904 134838	2992 222866	14123	31763	63890	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 3	BNB	Lin2	2261 103901	2425 170829	10914	23824	48980	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 4	BNB	Lin2	2113 96689	2149 159372	10247	23186	45911	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 5	BNB	Lin2	3101 143202	3130 234229	14916	33573	67183	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 01:54 Calibration End Date: 03/31/2015 03:27 Calibration ID: 38922

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/25	033015hp37.025dat.d
Level 2	IC 490-237639/26	033015hp37.026dat.d
Level 3	IC 490-237639/27	033015hp37.027dat.d
Level 4	IC 490-237639/28	033015hp37.028dat.d
Level 5	ICIS 490-237639/29	033015hp37.029dat.d
Level 6	IC 490-237639/30	033015hp37.030dat.d
Level 7	IC 490-237639/31	033015hp37.031dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1221 Peak 1	0.0669 0.0524	0.0617 0.0548	0.0531	0.0521	0.0504	Lin2	0.0005	0.0519							0.9990		0.9900
PCB-1221 Peak 2	0.1610 0.1218	0.1461 0.1265	0.1255	0.1225	0.1164	Lin2	0.0012	0.1205							0.9990		0.9900
PCB-1221 Peak 3	0.0273 0.0188	0.0230 0.0196	0.0190	0.0172	0.0177	Lin2	0.0003	0.0180							0.9970		0.9900
PCB-1254 Peak 1	0.3258 0.2447	0.3090 0.2135	0.2540	0.2426	0.2331	Lin2	0.0031	0.2331							0.9960		0.9900
PCB-1254 Peak 2	0.4603 0.3096	0.4255 +++++	0.3615	0.3512	0.3418	Lin2	0.0041	0.3331							0.9970		0.9900
PCB-1254 Peak 3	0.3445 0.2634	0.3205 0.2256	0.2646	0.2562	0.2469	Lin2	0.0032	0.2466							0.9970		0.9900
PCB-1254 Peak 4	0.1830 0.1525	0.1793 0.1655	0.1459	0.1442	0.1355	Lin2	0.0012	0.1477							0.9930		0.9900
PCB-1254 Peak 5	0.3790 0.3077	0.3579 0.2612	0.3013	0.2966	0.2883	Ave		0.3132				13.1		20.0			0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 01:54 Calibration End Date: 03/31/2015 03:27 Calibration ID: 38922

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/25	033015hp37.025dat.d
Level 2	IC 490-237639/26	033015hp37.026dat.d
Level 3	IC 490-237639/27	033015hp37.027dat.d
Level 4	IC 490-237639/28	033015hp37.028dat.d
Level 5	ICIS 490-237639/29	033015hp37.029dat.d
Level 6	IC 490-237639/30	033015hp37.030dat.d
Level 7	IC 490-237639/31	033015hp37.031dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	BNB	Lin2	5965 295383	8445 461096	30600	75657	145798	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1221 Peak 2	BNB	Lin2	14356 686378	20007 1064944	72339	177808	336626	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1221 Peak 3	BNB	Lin2	2433 105911	3154 164633	10952	25033	51050	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 1	BNB	Lin2	29054 1378800	42313 1797354	146423	352205	673921	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 2	BNB	Lin2	41054 1744634	58271 +++++	208439	509870	988392	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1254 Peak 3	BNB	Lin2	30728 1484298	43896 1899009	152584	371980	713854	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 4	BNB	Lin2	16321 859051	24551 1392911	84129	209357	391938	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 5	BNB	Ave	33802 1733842	49012 2198738	173742	430628	833785	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 03:59 Calibration End Date: 03/31/2015 05:31 Calibration ID: 38927

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/33	033015hp37.033dat.d
Level 2	IC 490-237639/34	033015hp37.034dat.d
Level 3	IC 490-237639/35	033015hp37.035dat.d
Level 4	IC 490-237639/36	033015hp37.036dat.d
Level 5	ICIS 490-237639/37	033015hp37.037dat.d
Level 6	IC 490-237639/38	033015hp37.038dat.d
Level 7	IC 490-237639/39	033015hp37.039dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1232 Peak 1	0.0494 0.0320	0.0440 0.0320	0.0414	0.0355	0.0334	Lin2	0.0005	0.0339							0.9930		0.9900
PCB-1232 Peak 2	0.0381 0.0262	0.0350 0.0260	0.0333	0.0287	0.0268	Lin2	0.0003	0.0275							0.9930		0.9900
PCB-1232 Peak 3	0.0350 0.0229	0.0300 0.0219	0.0275	0.0232	0.0230	Lin2	0.0004	0.0230							0.9960		0.9900
PCB-1232 Peak 4	0.0449 0.0313	0.0436 0.0320	0.0397	0.0342	0.0319	Lin2	0.0004	0.0332							0.9920		0.9900
PCB-1232 Peak 5	0.0340 0.0228	0.0304 0.0223	0.0288	0.0245	0.0232	Lin2	0.0003	0.0237							0.9940		0.9900
PCB-1262 Peak 1	0.1139 0.0870	0.1131 0.0880	0.0996	0.0885	0.0880	Lin2	0.0009	0.0890							0.9970		0.9900
PCB-1262 Peak 2	0.2357 0.1741	0.2223 0.1785	0.2003	0.1780	0.1765	Lin2	0.0019	0.1784							0.9980		0.9900
PCB-1262 Peak 3	0.0970 0.0790	0.1046 0.0836	0.0908	0.0803	0.0835	Lin2	0.0006	0.0831							0.9940		0.9900
PCB-1262 Peak 4	0.0415 0.0298	0.0405 0.0310	0.0351	0.0303	0.0325	Lin2	0.0004	0.0312							0.9960		0.9900
PCB-1262 Peak 5	0.0354 0.0224	0.0358 0.0233	0.0294	0.0251	0.0244	Lin1	0.0006	0.0231							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1 | Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 | GC Column: RTX-5 | ID: 0.32(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 03:59 | Calibration End Date: 03/31/2015 05:31 | Calibration ID: 38927

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/33	033015hp37.033dat.d
Level 2	IC 490-237639/34	033015hp37.034dat.d
Level 3	IC 490-237639/35	033015hp37.035dat.d
Level 4	IC 490-237639/36	033015hp37.036dat.d
Level 5	ICIS 490-237639/37	033015hp37.037dat.d
Level 6	IC 490-237639/38	033015hp37.038dat.d
Level 7	IC 490-237639/39	033015hp37.039dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	BNB	Lin2	1141 53205	1739 71457	6455	13626	26031	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 2	BNB	Lin2	879 43571	1384 58049	5198	11023	20915	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 3	BNB	Lin2	807 38081	1186 48990	4286	8903	17940	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 4	BNB	Lin2	1037 52050	1723 71455	6198	13127	24885	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 5	BNB	Lin2	785 37878	1203 49969	4492	9415	18079	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 1	BNB	Lin2	2628 144468	4471 196677	15544	33950	68633	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 2	BNB	Lin2	5439 289136	8787 399078	31252	68299	137672	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 3	BNB	Lin2	2239 131228	4133 186948	14167	30793	65132	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 4	BNB	Lin2	958 49510	1599 69305	5480	11636	25311	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 5	BNB	Lin1	818 37152	1414 52154	4592	9613	19014	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:

Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 03:59 Calibration End Date: 03/31/2015 05:31 Calibration ID: 38928

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/33	033015hp37.033dat.d
Level 2	IC 490-237639/34	033015hp37.034dat.d
Level 3	IC 490-237639/35	033015hp37.035dat.d
Level 4	IC 490-237639/36	033015hp37.036dat.d
Level 5	ICIS 490-237639/37	033015hp37.037dat.d
Level 6	IC 490-237639/38	033015hp37.038dat.d
Level 7	IC 490-237639/39	033015hp37.039dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1232 Peak 1	0.1329 0.1118	0.1211 0.1036	0.1199	0.1035	0.1041	Ave		0.1139				9.9		20.0			0.9900
PCB-1232 Peak 2	0.1204 0.1035	0.1100 0.0953	0.1095	0.0943	0.0948	Ave		0.1040				9.5		20.0			0.9900
PCB-1232 Peak 3	0.0964 0.0881	0.0916 0.0841	0.0923	0.0792	0.0790	Ave		0.0872				7.7		20.0			0.9900
PCB-1232 Peak 4	0.1280 0.1228	0.1208 0.1108	0.1233	0.1099	0.1112	Ave		0.1181				6.2		20.0			0.9900
PCB-1232 Peak 5	0.0531 0.0504	0.0500 0.0468	0.0514	0.0444	0.0452	Ave		0.0487				6.8		20.0			0.9900
PCB-1262 Peak 1	0.3985 0.3208	0.3618 +++++	0.3751	0.3263	0.3331	Ave		0.3526				8.8		20.0			0.9900
PCB-1262 Peak 2	0.7954 +++++	0.7339 +++++	0.7596	0.6676	0.6329	Ave		0.7179				9.3		20.0			0.9900
PCB-1262 Peak 3	0.5632 0.4629	0.5259 +++++	0.5360	0.4713	0.4793	Ave		0.5064				8.1		20.0			0.9900
PCB-1262 Peak 4	0.1052 0.0969	0.0980 0.0946	0.1036	0.0898	0.0913	Ave		0.0970				6.0		20.0			0.9900
PCB-1262 Peak 5	0.0928 0.0776	0.0828 0.0774	0.0838	0.0741	0.0750	Ave		0.0805				8.1		20.0			0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 03:59 Calibration End Date: 03/31/2015 05:31 Calibration ID: 38928

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/33	033015hp37.033dat.d
Level 2	IC 490-237639/34	033015hp37.034dat.d
Level 3	IC 490-237639/35	033015hp37.035dat.d
Level 4	IC 490-237639/36	033015hp37.036dat.d
Level 5	ICIS 490-237639/37	033015hp37.037dat.d
Level 6	IC 490-237639/38	033015hp37.038dat.d
Level 7	IC 490-237639/39	033015hp37.039dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	BNB	Ave	11454 653586	17831 892935	68958	154741	307692	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 2	BNB	Ave	10373 605040	16200 821332	62936	141013	280233	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 3	BNB	Ave	8306 515065	13488 725102	53062	118394	233509	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 4	BNB	Ave	11033 717728	17789 954786	70871	164262	328765	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 5	BNB	Ave	4575 294475	7358 402899	29549	66432	133623	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 1	BNB	Ave	34346 1875448	53272 +++++	215653	487773	984494	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1262 Peak 2	BNB	Ave	68556 +++++	108061 +++++	436681	997904	1870963	0.0300 +++++	0.0500 +++++	0.200	0.500	1.00
PCB-1262 Peak 3	BNB	Ave	48540 2706143	77434 +++++	308166	704528	1416814	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1262 Peak 4	BNB	Ave	9063 566536	14430 814802	59568	134172	269996	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 5	BNB	Ave	7999 453607	12189 666619	48186	110804	221651	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Ave = Average ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 06:02 Calibration End Date: 03/31/2015 07:35 Calibration ID: 38933

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/41	033015hp37.041dat.d
Level 2	IC 490-237639/42	033015hp37.042dat.d
Level 3	IC 490-237639/43	033015hp37.043dat.d
Level 4	IC 490-237639/44	033015hp37.044dat.d
Level 5	ICIS 490-237639/45	033015hp37.045dat.d
Level 6	IC 490-237639/46	033015hp37.046dat.d
Level 7	IC 490-237639/47	033015hp37.047dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1242 Peak 1	+++++ 0.0301	0.0489 0.0309	0.0402	0.0358	0.0333	Lin2	0.0009	0.0323							0.9940		0.9900
PCB-1242 Peak 2	+++++ 0.0227	0.0354 0.0231	0.0293	0.0276	0.0244	Lin2	0.0006	0.0242							0.9940		0.9900
PCB-1242 Peak 3	+++++ 0.0182	0.0292 0.0182	0.0244	0.0218	0.0197	Lin2	0.0005	0.0194							0.9920		0.9900
PCB-1242 Peak 4	+++++ 0.0191	0.0326 0.0196	0.0260	0.0231	0.0207	Lin2	0.0006	0.0204							0.9930		0.9900
PCB-1242 Peak 5	+++++ 0.0271	0.0453 0.0279	0.0367	0.0326	0.0294	Lin2	0.0009	0.0291							0.9930		0.9900
PCB-1268 Peak 1	0.2670 0.1844	0.2574 0.1888	0.2140	0.2022	0.1994	Lin2	0.0025	0.1943							0.9970		0.9900
PCB-1268 Peak 2	0.2581 0.1815	0.2439 0.1857	0.2027	0.1918	0.1902	Lin2	0.0023	0.1870							0.9990		0.9900
PCB-1268 Peak 3	0.2217 0.1494	0.2040 0.1533	0.1697	0.1625	0.1598	Lin2	0.0021	0.1556							0.9990		0.9900
PCB-1268 Peak 4	0.1089 0.0675	0.0935 0.0685	0.0808	0.0746	0.0737	Lin2	0.0012	0.0708							0.9980		0.9900
PCB-1268 Peak 5	0.6296 0.4710	0.5947 0.4710	0.5073	0.4938	0.4994	Lin2	0.0048	0.4814							0.9990		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 06:02 Calibration End Date: 03/31/2015 07:35 Calibration ID: 38933

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/41	033015hp37.041dat.d
Level 2	IC 490-237639/42	033015hp37.042dat.d
Level 3	IC 490-237639/43	033015hp37.043dat.d
Level 4	IC 490-237639/44	033015hp37.044dat.d
Level 5	ICIS 490-237639/45	033015hp37.045dat.d
Level 6	IC 490-237639/46	033015hp37.046dat.d
Level 7	IC 490-237639/47	033015hp37.047dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	BNB	Lin2	+++++ 44070	1913 67689	6054	13515	24069	+++++ 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 2	BNB	Lin2	+++++ 33187	1385 50566	4408	10423	17627	+++++ 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 3	BNB	Lin2	+++++ 26653	1143 39804	3663	8230	14235	+++++ 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 4	BNB	Lin2	+++++ 27924	1277 42946	3906	8741	14997	+++++ 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 5	BNB	Lin2	+++++ 39740	1772 61208	5522	12308	21265	+++++ 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 1	BNB	Lin2	6079 270147	10078 413676	32190	76354	144158	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 2	BNB	Lin2	5877 265838	9548 406836	30495	72427	137518	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 3	BNB	Lin2	5049 218946	7988 335800	25534	61359	115556	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 4	BNB	Lin2	2479 98851	3662 150172	12149	28183	53275	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 5	BNB	Lin2	14337 690071	23283 1032065	76312	186472	361087	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 06:02 Calibration End Date: 03/31/2015 07:35 Calibration ID: 38934

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/41	033015hp37.041dat.d
Level 2	IC 490-237639/42	033015hp37.042dat.d
Level 3	IC 490-237639/43	033015hp37.043dat.d
Level 4	IC 490-237639/44	033015hp37.044dat.d
Level 5	ICIS 490-237639/45	033015hp37.045dat.d
Level 6	IC 490-237639/46	033015hp37.046dat.d
Level 7	IC 490-237639/47	033015hp37.047dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1242 Peak 1	0.1532 0.1253	0.1517 0.1290	0.1444	0.1429	0.1304	Ave		0.1395				8.1		20.0			0.9900
PCB-1242 Peak 2	0.0931 0.0786	0.0938 0.0814	0.0886	0.0890	0.0815	Ave		0.0866				7.0		20.0			0.9900
PCB-1242 Peak 3	0.0922 0.0724	0.0898 0.0748	0.0856	0.0836	0.0756	Ave		0.0820				9.5		20.0			0.9900
PCB-1242 Peak 4	0.0958 0.0757	0.0929 0.0792	0.0900	0.0878	0.0792	Ave		0.0858				9.1		20.0			0.9900
PCB-1242 Peak 5	0.1324 0.1059	0.1270 0.1087	0.1211	0.1200	0.1103	Ave		0.1179				8.5		20.0			0.9900
PCB-1268 Peak 1	0.2123 0.1668	0.1995 0.1728	0.1922	0.1876	0.1683	Ave		0.1856				9.2		20.0			0.9900
PCB-1268 Peak 2	0.8029 +++++	0.7847 +++++	0.7422	0.7437	0.6805	Ave		0.7508				6.3		20.0			0.9900
PCB-1268 Peak 3	0.6568 +++++	0.6478 +++++	0.5831	0.6188	0.5743	Ave		0.6162				6.0		20.0			0.9900
PCB-1268 Peak 4	0.2998 0.2527	0.3020 +++++	0.2805	0.2762	0.2561	Ave		0.2779				7.5		20.0			0.9900
PCB-1268 Peak 5	0.4363 0.3237	0.4157 +++++	0.3828	0.3715	0.3501	Ave		0.3800				10.9		20.0			0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 06:02 Calibration End Date: 03/31/2015 07:35 Calibration ID: 38934

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/41	033015hp37.041dat.d
Level 2	IC 490-237639/42	033015hp37.042dat.d
Level 3	IC 490-237639/43	033015hp37.043dat.d
Level 4	IC 490-237639/44	033015hp37.044dat.d
Level 5	ICIS 490-237639/45	033015hp37.045dat.d
Level 6	IC 490-237639/46	033015hp37.046dat.d
Level 7	IC 490-237639/47	033015hp37.047dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	BNB	Ave	13631 755257	22321 1144395	86664	211126	387779	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 2	BNB	Ave	8283 474085	13801 721862	53142	131527	242439	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 3	BNB	Ave	8204 436425	13214 663731	51349	123565	224786	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 4	BNB	Ave	8527 456195	13676 703146	53984	129702	235346	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 5	BNB	Ave	11785 638257	18694 964378	72660	177293	327908	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 1	BNB	Ave	18894 1005881	29363 1533541	115310	277225	500421	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 2	BNB	Ave	71458 +++++	115485 +++++	445353	1099034	2023386	0.0300 +++++	0.0500 +++++	0.200	0.500	1.00
PCB-1268 Peak 3	BNB	Ave	58449 +++++	95346 +++++	349919	914490	1707461	0.0300 +++++	0.0500 +++++	0.200	0.500	1.00
PCB-1268 Peak 4	BNB	Ave	26678 1523524	44455 +++++	168292	408206	761506	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1268 Peak 5	BNB	Ave	38824 1951716	61177 +++++	229702	548936	1040897	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00

Curve Type Legend:
Ave = Average ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 08:07 Calibration End Date: 03/31/2015 09:40 Calibration ID: 38939

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/49	033015hp37.049dat.d
Level 2	IC 490-237639/50	033015hp37.050dat.d
Level 3	IC 490-237639/51	033015hp37.051dat.d
Level 4	IC 490-237639/52	033015hp37.052dat.d
Level 5	ICIS 490-237639/53	033015hp37.053dat.d
Level 6	IC 490-237639/54	033015hp37.054dat.d
Level 7	IC 490-237639/55	033015hp37.055dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1248 Peak 1	0.0821 0.0447	0.0695 0.0480	0.0546	0.0512	0.0507	Lin2	0.0010	0.0480							0.9980		0.9900
PCB-1248 Peak 2	0.0540 0.0296	0.0460 0.0319	0.0340	0.0334	0.0330	Lin2	0.0007	0.0312							0.9980		0.9900
PCB-1248 Peak 3	0.0742 0.0525	0.0766 0.0572	0.0616	0.0576	0.0573	Lin2	0.0007	0.0566							0.9940		0.9900
PCB-1248 Peak 4	0.0672 0.0471	0.0691 0.0512	0.0545	0.0534	0.0543	Lin2	0.0006	0.0516							0.9940		0.9900
PCB-1248 Peak 5	0.0557 0.0428	0.0604 0.0465	0.0502	0.0472	0.0481	Lin2	0.0004	0.0467							0.9930		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 08:07 Calibration End Date: 03/31/2015 09:40 Calibration ID: 38939

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/49	033015hp37.049dat.d
Level 2	IC 490-237639/50	033015hp37.050dat.d
Level 3	IC 490-237639/51	033015hp37.051dat.d
Level 4	IC 490-237639/52	033015hp37.052dat.d
Level 5	ICIS 490-237639/53	033015hp37.053dat.d
Level 6	IC 490-237639/54	033015hp37.054dat.d
Level 7	IC 490-237639/55	033015hp37.055dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	BNB	Lin2	1813 67054	2559 116906	8627	19559	40157	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 2	BNB	Lin2	1193 44376	1694 77661	5362	12743	26162	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 3	BNB	Lin2	1639 78830	2821 139388	9734	21983	45365	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 4	BNB	Lin2	1485 70653	2545 124933	8610	20373	43041	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 5	BNB	Lin2	1230 64194	2225 113342	7926	17999	38059	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 08:07 Calibration End Date: 03/31/2015 09:40 Calibration ID: 38940

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/49	033015hp37.049dat.d
Level 2	IC 490-237639/50	033015hp37.050dat.d
Level 3	IC 490-237639/51	033015hp37.051dat.d
Level 4	IC 490-237639/52	033015hp37.052dat.d
Level 5	ICIS 490-237639/53	033015hp37.053dat.d
Level 6	IC 490-237639/54	033015hp37.054dat.d
Level 7	IC 490-237639/55	033015hp37.055dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1248 Peak 1	0.2128 0.1638	0.1960 0.1726	0.2099	0.1770	0.1840	Ave		0.1880				10.0		20.0			0.9900
PCB-1248 Peak 2	0.1875 0.1486	0.1735 0.1715	0.1880	0.1600	0.1669	Ave		0.1709				8.3		20.0			0.9900
PCB-1248 Peak 3	0.2426 0.1932	0.2265 +++++	0.2462	0.2087	0.2161	Ave		0.2222				9.2		20.0			0.9900
PCB-1248 Peak 4	0.2651 0.2128	0.2487 +++++	0.2715	0.2296	0.2384	Ave		0.2444				9.0		20.0			0.9900
PCB-1248 Peak 5	0.2507 0.2050	0.2330 0.2377	0.2576	0.2212	0.2294	Ave		0.2335				7.6		20.0			0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 08:07 Calibration End Date: 03/31/2015 09:40 Calibration ID: 38940

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/49	033015hp37.049dat.d
Level 2	IC 490-237639/50	033015hp37.050dat.d
Level 3	IC 490-237639/51	033015hp37.051dat.d
Level 4	IC 490-237639/52	033015hp37.052dat.d
Level 5	ICIS 490-237639/53	033015hp37.053dat.d
Level 6	IC 490-237639/54	033015hp37.054dat.d
Level 7	IC 490-237639/55	033015hp37.055dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	BNB	Ave	19332 1010990	29907 1547130	123983	269777	548211	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 2	BNB	Ave	17036 917351	26477 1537443	111042	243952	497265	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 3	BNB	Ave	22037 1192256	34556 +++++	145415	318213	643985	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1248 Peak 4	BNB	Ave	24081 1313492	37950 +++++	160353	350040	710512	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1248 Peak 5	BNB	Ave	22775 1264951	35562 2130598	152133	337276	683613	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Ave = Average ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 237912

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 16:21 Calibration End Date: 03/31/2015 17:54 Calibration ID: 38947

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237912/3	033115hp37.003dat.d
Level 2	IC 490-237912/4	033115hp37.004dat.d
Level 3	IC 490-237912/5	033115hp37.005dat.d
Level 4	IC 490-237912/6	033115hp37.006dat.d
Level 5	ICRT 490-237912/7	033115hp37.007dat.d
Level 6	IC 490-237912/8	033115hp37.008dat.d
Level 7	IC 490-237912/9	033115hp37.009dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0374 0.0237	0.0333 0.0229	0.0326	0.0280	0.0253	Lin1	0.0006	0.0237							0.9950		0.9900
PCB-1016 Peak 2	0.0810 0.0479	0.0694 0.0469	0.0660	0.0566	0.0517	Lin1	0.0013	0.0481							0.9960		0.9900
PCB-1016 Peak 3	0.0219 0.0132	0.0177 0.0131	0.0192	0.0160	0.0146	Lin1	0.0003	0.0134							0.9930		0.9900
PCB-1016 Peak 4	0.0346 0.0203	0.0284 0.0197	0.0270	0.0240	0.0214	Lin2	0.0004	0.0216							0.9900		0.9900
PCB-1016 Peak 5	0.1016 0.0582	0.0902 0.0599	0.0767	0.0700	0.0632	Lin2	0.0012	0.0634							0.9930		0.9900
PCB-1260 Peak 1	0.0984 0.0620	0.0881 0.0594	0.0800	0.0699	0.0643	Lin2	0.0011	0.0651							0.9920		0.9900
PCB-1260 Peak 2	0.1469 0.0940	0.1256 0.0906	0.1195	0.1054	0.0968	Lin2	0.0015	0.0980							0.9930		0.9900
PCB-1260 Peak 3	0.1262 0.0808	0.1117 0.0812	0.1043	0.0912	0.0848	Lin2	0.0013	0.0859							0.9930		0.9900
PCB-1260 Peak 4	0.0898 0.0613	0.0748 0.0594	0.0780	0.0679	0.0636	Lin2	0.0007	0.0641							0.9910		0.9900
PCB-1260 Peak 5	0.1974 0.1364	0.1767 0.1335	0.1632	0.1461	0.1392	Lin2	0.0018	0.1402							0.9970		0.9900
Tetrachloro-m-xylene	2.0179 1.3554	1.7853 1.3487	1.6826	1.4906	1.4130	Lin2	0.0019	1.4198							0.9950		0.9900
DCB Decachlorobiphenyl (Surr)	1.6262 1.0977	1.5759 1.0536	1.3205	1.1574	1.1102	Lin1	0.0023	1.0731							0.9990		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 237912

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 16:21 Calibration End Date: 03/31/2015 17:54 Calibration ID: 38947

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237912/3	033115hp37.003dat.d
Level 2	IC 490-237912/4	033115hp37.004dat.d
Level 3	IC 490-237912/5	033115hp37.005dat.d
Level 4	IC 490-237912/6	033115hp37.006dat.d
Level 5	ICRT 490-237912/7	033115hp37.007dat.d
Level 6	IC 490-237912/8	033115hp37.008dat.d
Level 7	IC 490-237912/9	033115hp37.009dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Lin1	829 31020	1158 44220	4325	9934	16134	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 2	BNB	Lin1	1793 62679	2414 90518	8761	20069	32913	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 3	BNB	Lin1	484 17207	615 25191	2544	5672	9301	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 4	BNB	Lin2	765 26548	988 37942	3584	8491	13603	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 5	BNB	Lin2	2250 76139	3139 115598	10191	24815	40254	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 1	BNB	Lin2	2179 81058	3068 114578	10625	24791	40962	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 2	BNB	Lin2	3251 122904	4373 174824	15869	37376	61699	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 3	BNB	Lin2	2794 105654	3888 156723	13852	32321	54030	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 4	BNB	Lin2	1989 80190	2603 114616	10361	24056	40540	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 5	BNB	Lin2	4369 178332	6152 257555	21671	51780	88668	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
Tetrachloro-m-xylene	BNB	Lin2	4467 177274	6214 260150	22349	52838	90020	0.00300 0.200	0.00500 0.300	0.0200	0.0500	0.100
DCB Decachlorobiphenyl (Surr)	BNB	Lin1	3600 143565	5485 203232	17539	41025	70732	0.00300 0.200	0.00500 0.300	0.0200	0.0500	0.100

Curve Type Legend:

Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 237912

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 16:21 Calibration End Date: 03/31/2015 17:54 Calibration ID: 38948

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237912/3	033115hp37.003dat.d
Level 2	IC 490-237912/4	033115hp37.004dat.d
Level 3	IC 490-237912/5	033115hp37.005dat.d
Level 4	IC 490-237912/6	033115hp37.006dat.d
Level 5	ICRT 490-237912/7	033115hp37.007dat.d
Level 6	IC 490-237912/8	033115hp37.008dat.d
Level 7	IC 490-237912/9	033115hp37.009dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.1362 0.0797	0.1066 0.0781	0.1044	0.0991	0.0848	Lin1	0.0020	0.0803							0.9950		0.9900
PCB-1016 Peak 2	0.1873 0.1266	0.1535 0.1207	0.1672	0.1553	0.1332	Lin1	0.0026	0.1261							0.9930		0.9900
PCB-1016 Peak 3	0.0785 0.0533	0.0635 0.0528	0.0678	0.0654	0.0556	Lin1	0.0010	0.0539							0.9960		0.9900
PCB-1016 Peak 4	0.1026 0.0695	0.0845 0.0675	0.0895	0.0851	0.0732	Lin1	0.0013	0.0698							0.9950		0.9900
PCB-1016 Peak 5	0.3136 0.2186	0.2682 +++++	0.2918	0.2708	0.2409	Lin1	0.0035	0.2311							0.9920		0.9900
PCB-1260 Peak 1	0.4465 +++++	0.3855 +++++	0.4042	0.3813	0.3337	Lin2	0.0022	0.3626							0.9920		0.9900
PCB-1260 Peak 2	0.4101 0.2951	0.3553 +++++	0.3749	0.3499	0.3080	Lin2	0.0025	0.3234							0.9910		0.9900
PCB-1260 Peak 3	0.3426 0.2573	0.3043 +++++	0.3176	0.3034	0.2698	Lin2	0.0018	0.2809							0.9930		0.9900
PCB-1260 Peak 4	0.1644 0.1272	0.1494 0.1224	0.1533	0.1470	0.1304	Lin2	0.0009	0.1336							0.9930		0.9900
PCB-1260 Peak 5	0.7705 +++++	0.6876 +++++	0.7197	0.6842	0.5834	Ave		0.6891				9.9		20.0			0.9900
Tetrachloro-m-xylene	6.0985 +++++	5.1828 +++++	5.5112	5.2110	4.3545	Lin1	0.0052	4.6310							0.9900		0.9900
DCB Decachlorobiphenyl (Surr)	5.8304 +++++	5.1338 +++++	4.9319	4.6091	4.3333	Lin2	0.0039	4.4926							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75790-1 Analy Batch No.: 237912

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 16:21 Calibration End Date: 03/31/2015 17:54 Calibration ID: 38948

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237912/3	033115hp37.003dat.d
Level 2	IC 490-237912/4	033115hp37.004dat.d
Level 3	IC 490-237912/5	033115hp37.005dat.d
Level 4	IC 490-237912/6	033115hp37.006dat.d
Level 5	ICRT 490-237912/7	033115hp37.007dat.d
Level 6	IC 490-237912/8	033115hp37.008dat.d
Level 7	IC 490-237912/9	033115hp37.009dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Lin1	12372 500749	16627 741152	64072	152049	266884	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 2	BNB	Lin1	17022 795243	23945 1145890	102562	238210	419115	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 3	BNB	Lin1	7129 334686	9912 501142	41572	100346	174961	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 4	BNB	Lin1	9322 436396	13187 641069	54895	130571	230306	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 5	BNB	Lin1	28495 1373232	41841 +++++	179020	415336	757745	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1260 Peak 1	BNB	Lin2	40566 +++++	60137 +++++	247976	584893	1049801	0.0300 +++++	0.0500 +++++	0.200	0.500	1.00
PCB-1260 Peak 2	BNB	Lin2	37262 1853454	55420 +++++	230003	536615	968793	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1260 Peak 3	BNB	Lin2	31125 1616062	47460 +++++	194866	465267	848673	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1260 Peak 4	BNB	Lin2	14934 798722	23298 1162112	94056	225387	410140	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 5	BNB	Ave	70012 +++++	107257 +++++	441558	1049475	1835302	0.0300 +++++	0.0500 +++++	0.200	0.500	1.00
Tetrachloro-m-xylene	BNB	Lin1	55412 +++++	80843 +++++	338106	799243	1369859	0.00300 +++++	0.00500 +++++	0.0200	0.0500	0.100
DCB Decachlorobiphenyl (Surr)	BNB	Lin2	52976 +++++	80078 +++++	302568	706923	1363195	0.00300 +++++	0.00500 +++++	0.0200	0.0500	0.100

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID (1): ICV 490-237912/10 Instrument ID (1): HP37

GC Column (1): RTX-5 ID: 0.32(mm) Date Analyzed (1): 03/31/2015 18:10

ANALYTE	RT	RESOLUTION (%)
PCB-1016		100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID (2): ICV 490-237912/10 Instrument ID (2): HP37

GC Column (2): RTX-50 ID: 0.32(mm) Date Analyzed (2): 03/31/2015 18:10

ANALYTE	RT	RESOLUTION (%)
PCB-1016		100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID (1): CCVRT 490-241134/2 Instrument ID (1): HP37

GC Column (1): RTX-5 ID: 0.32(mm) Date Analyzed (1): 04/14/2015 12:15

ANALYTE	RT	RESOLUTION (%)
PCB-1016		100.0
PCB-1260		100.0
Tetrachloro-m-xylene	2.04	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID (2): CCVRT 490-241134/2 Instrument ID (2): HP37

GC Column (2): RTX-50 ID: 0.32(mm) Date Analyzed (2): 04/14/2015 12:15

ANALYTE	RT	RESOLUTION (%)
PCB-1016		100.0
PCB-1260		100.0
Tetrachloro-m-xylene	2.04	100.0

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: ICV 490-237912/10 Calibration Date: 03/31/2015 18:10

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 033115hp37.010dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0256		1.05	1.00	5.3	20.0
PCB-1016 Peak 2	Lin1		0.0530		1.07	1.00	7.3	20.0
PCB-1016 Peak 3	Lin1		0.0155		1.13	1.00	13.0	20.0
PCB-1016 Peak 4	Lin2		0.0216		0.982	1.00	-1.9	20.0
PCB-1016 Peak 5	Lin2		0.0638		0.987	1.00	-1.3	20.0
PCB-1260 Peak 1	Lin2		0.0668		1.01	1.00	1.0	20.0
PCB-1260 Peak 2	Lin2		0.1010		1.02	1.00	1.5	20.0
PCB-1260 Peak 3	Lin2		0.0926		1.06	1.00	6.3	20.0
PCB-1260 Peak 4	Lin2		0.0578		0.889	1.00	-11.1	20.0
PCB-1260 Peak 5	Lin2		0.1255		0.882	1.00	-11.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: ICV 490-237912/10 Calibration Date: 03/31/2015 18:10

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 033115hp37.010dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.32	2.29	2.35
PCB-1016 Peak 2	2.62	2.59	2.65
PCB-1016 Peak 3	2.78	2.75	2.81
PCB-1016 Peak 4	2.81	2.78	2.84
PCB-1016 Peak 5	3.05	3.02	3.08
PCB-1260 Peak 1	4.97	4.94	5.00
PCB-1260 Peak 2	5.31	5.28	5.34
PCB-1260 Peak 3	5.66	5.63	5.69
PCB-1260 Peak 4	6.13	6.10	6.16
PCB-1260 Peak 5	6.53	6.50	6.56

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: ICV 490-237912/10 Calibration Date: 03/31/2015 18:10

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 033115hp37.010dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0804		0.976	1.00	-2.4	20.0
PCB-1016 Peak 2	Lin1		0.1287		1.00	1.00	0.0	20.0
PCB-1016 Peak 3	Lin1		0.0554		1.01	1.00	0.9	20.0
PCB-1016 Peak 4	Lin1		0.0722		1.02	1.00	1.5	20.0
PCB-1016 Peak 5	Lin1		0.2331		0.993	1.00	-0.7	20.0
PCB-1260 Peak 1	Lin2		0.3242		0.888	1.00	-11.2	20.0
PCB-1260 Peak 2	Lin2		0.3310		1.02	1.00	1.6	20.0
PCB-1260 Peak 3	Lin2		0.2330		0.823	1.00	-17.7	20.0
PCB-1260 Peak 4	Lin2		0.1173		0.871	1.00	-12.9	20.0
PCB-1260 Peak 5	Ave	0.6891	0.5326		0.773	1.00	-22.7*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: ICV 490-237912/10 Calibration Date: 03/31/2015 18:10

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 033115hp37.010dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.41	2.38	2.44
PCB-1016 Peak 2	2.75	2.72	2.78
PCB-1016 Peak 3	2.95	2.92	2.98
PCB-1016 Peak 4	2.98	2.95	3.01
PCB-1016 Peak 5	3.18	3.15	3.21
PCB-1260 Peak 1	5.55	5.52	5.58
PCB-1260 Peak 2	6.01	5.98	6.04
PCB-1260 Peak 3	6.51	6.48	6.54
PCB-1260 Peak 4	6.60	6.58	6.64
PCB-1260 Peak 5	6.84	6.82	6.88

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCVRT 490-241134/2 Calibration Date: 04/14/2015 12:15

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 041415hp37.002dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0258		1.06	1.00	6.4	20.0
PCB-1016 Peak 2	Lin1		0.0525		1.06	1.00	6.2	20.0
PCB-1016 Peak 3	Lin1		0.0123		0.892	1.00	-10.8	20.0
PCB-1016 Peak 4	Lin2		0.0214		0.975	1.00	-2.5	20.0
PCB-1016 Peak 5	Lin2		0.0708		1.10	1.00	9.8	20.0
PCB-1260 Peak 1	Lin2		0.0664		1.00	1.00	0.3	20.0
PCB-1260 Peak 2	Lin2		0.1009		1.01	1.00	1.4	20.0
PCB-1260 Peak 3	Lin2		0.0813		0.932	1.00	-6.8	20.0
PCB-1260 Peak 4	Lin2		0.0643		0.992	1.00	-0.8	20.0
PCB-1260 Peak 5	Lin2		0.1452		1.02	1.00	2.3	20.0
Tetrachloro-m-xylene	Lin2		1.345		0.0934	0.100	-6.6	20.0
DCB Decachlorobiphenyl (Surr)	Lin1		0.9113		0.0828	0.100	-17.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCVRT 490-241134/2 Calibration Date: 04/14/2015 12:15

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 041415hp37.002dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.31	2.28	2.34
PCB-1016 Peak 2	2.60	2.57	2.63
PCB-1016 Peak 3	2.77	2.74	2.80
PCB-1016 Peak 4	2.79	2.76	2.82
PCB-1016 Peak 5	3.03	3.00	3.06
PCB-1260 Peak 1	4.95	4.92	4.98
PCB-1260 Peak 2	5.29	5.26	5.32
PCB-1260 Peak 3	5.64	5.61	5.67
PCB-1260 Peak 4	6.10	6.07	6.13
PCB-1260 Peak 5	6.50	6.47	6.53
Tetrachloro-m-xylene	2.04	2.01	2.07
DCB Decachlorobiphenyl (Surr)	8.36	8.33	8.39

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCVRT 490-241134/2 Calibration Date: 04/14/2015 12:15

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 041415hp37.002dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0753		0.913	1.00	-8.7	20.0
PCB-1016 Peak 2	Lin1		0.1081		0.837	1.00	-16.3	20.0
PCB-1016 Peak 3	Lin1		0.0461		0.837	1.00	-16.3	20.0
PCB-1016 Peak 4	Lin1		0.0643		0.903	1.00	-9.7	20.0
PCB-1016 Peak 5	Lin1		0.2217		0.944	1.00	-5.6	20.0
PCB-1260 Peak 1	Lin2		0.2892		0.791	1.00	-20.9*	20.0
PCB-1260 Peak 2	Lin2		0.2735		0.838	1.00	-16.2	20.0
PCB-1260 Peak 3	Lin2		0.2311		0.817	1.00	-18.4	20.0
PCB-1260 Peak 4	Lin2		0.1112		0.825	1.00	-17.5	20.0
PCB-1260 Peak 5	Ave	0.6891	0.5106		0.741	1.00	-25.9*	20.0
Tetrachloro-m-xylene	Lin1		4.069		0.0867	0.100	-13.3	20.0
DCB Decachlorobiphenyl (Surr)	Lin2		3.388		0.0746	0.100	-25.4*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCVRT 490-241134/2 Calibration Date: 04/14/2015 12:15

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 041415hp37.002dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.40	2.37	2.43
PCB-1016 Peak 2	2.74	2.71	2.77
PCB-1016 Peak 3	2.94	2.91	2.97
PCB-1016 Peak 4	2.97	2.94	3.00
PCB-1016 Peak 5	3.17	3.14	3.20
PCB-1260 Peak 1	5.53	5.50	5.56
PCB-1260 Peak 2	5.99	5.96	6.02
PCB-1260 Peak 3	6.50	6.47	6.53
PCB-1260 Peak 4	6.59	6.56	6.62
PCB-1260 Peak 5	6.83	6.80	6.86
Tetrachloro-m-xylene	2.04	2.01	2.07
DCB Decachlorobiphenyl (Surr)	8.91	8.88	8.94

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 4	Ave	0.4816	0.0000			1.00	-100.0*	20.0
PCB-1221 Peak 5	Ave	0.0089	0.0000			1.00	-100.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 4	0.00	0.00	0.03
PCB-1221 Peak 5	0.00	0.00	0.03

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin2		0.0132		0.808	1.00	-19.2	20.0
PCB-1221 Peak 2	Lin2		0.0322		0.850	1.00	-15.0	20.0
PCB-1221 Peak 3	Lin2		0.0053		0.922	1.00	-7.8	20.0
PCB-1254 Peak 1	Lin2		0.0490		0.935	1.00	-6.5	20.0
PCB-1254 Peak 2	Lin2		0.0842		0.940	1.00	-6.0	20.0
PCB-1254 Peak 3	Lin2		0.0662		0.964	1.00	-3.6	20.0
PCB-1254 Peak 4	Lin2		0.0607		0.942	1.00	-5.8	20.0
PCB-1254 Peak 5	Lin2		0.0864		0.915	1.00	-8.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	2.16	2.13	2.19
PCB-1221 Peak 2	2.31	2.28	2.34
PCB-1221 Peak 3	3.03	3.00	3.06
PCB-1254 Peak 1	4.59	4.56	4.62
PCB-1254 Peak 2	4.73	4.70	4.76
PCB-1254 Peak 3	5.06	5.03	5.09
PCB-1254 Peak 4	5.29	5.26	5.32
PCB-1254 Peak 5	5.64	5.61	5.67

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 4	Ave	0.0355	0.0000			1.00	-100.0*	20.0
PCB-1221 Peak 5	Ave	0.0372	0.0000			1.00	-100.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 4	0.00	0.00	0.03
PCB-1221 Peak 5	0.00	0.00	0.03

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin2		0.0437		0.835	1.00	-16.5	20.0
PCB-1221 Peak 2	Lin2		0.1021		0.837	1.00	-16.3	20.0
PCB-1221 Peak 3	Lin2		0.0171		0.937	1.00	-6.3	20.0
PCB-1254 Peak 1	Lin2		0.2135		0.903	1.00	-9.7	20.0
PCB-1254 Peak 2	Lin2	0.3750	0.3122		0.925	1.00	-7.5	20.0
PCB-1254 Peak 3	Lin2		0.2298		0.919	1.00	-8.1	20.0
PCB-1254 Peak 4	Lin2		0.1347		0.904	1.00	-9.6	20.0
PCB-1254 Peak 5	Ave	0.3132	0.2595		0.895	1.00	-17.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	2.24	2.21	2.27
PCB-1221 Peak 2	2.40	2.37	2.43
PCB-1221 Peak 3	3.17	3.14	3.20
PCB-1254 Peak 1	4.48	4.45	4.51
PCB-1254 Peak 2	5.03	5.00	5.06
PCB-1254 Peak 3	5.31	5.28	5.34
PCB-1254 Peak 4	5.53	5.50	5.56
PCB-1254 Peak 5	6.00	5.97	6.03

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/4 Calibration Date: 04/14/2015 12:46

Instrument ID: HP37 Calib Start Date: 03/31/2015 03:59

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 05:31

Lab File ID: 041415hp37.004dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin2		0.0280		0.813	1.00	-18.7	20.0
PCB-1232 Peak 2	Lin2		0.0216		0.772	1.00	-22.8*	20.0
PCB-1232 Peak 3	Lin2		0.0172		0.734	1.00	-26.6*	20.0
PCB-1232 Peak 4	Lin2		0.0305		0.906	1.00	-9.4	20.0
PCB-1232 Peak 5	Lin2		0.0189		0.783	1.00	-21.7*	20.0
PCB-1262 Peak 1	Lin2		0.0760		0.844	1.00	-15.6	20.0
PCB-1262 Peak 2	Lin2		0.1563		0.866	1.00	-13.4	20.0
PCB-1262 Peak 3	Lin2		0.0692		0.826	1.00	-17.4	20.0
PCB-1262 Peak 4	Lin2		0.0237		0.748	1.00	-25.2*	20.0
PCB-1262 Peak 5	Lin1		0.0166		0.695	1.00	-30.5*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/4 Calibration Date: 04/14/2015 12:46

Instrument ID: HP37 Calib Start Date: 03/31/2015 03:59

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 05:31

Lab File ID: 041415hp37.004dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.31	2.28	2.34
PCB-1232 Peak 2	2.60	2.57	2.63
PCB-1232 Peak 3	3.01	2.98	3.04
PCB-1232 Peak 4	3.03	3.00	3.06
PCB-1232 Peak 5	3.16	3.13	3.19
PCB-1262 Peak 1	6.10	6.07	6.13
PCB-1262 Peak 2	6.50	6.47	6.53
PCB-1262 Peak 3	6.98	6.95	7.01
PCB-1262 Peak 4	7.36	7.33	7.39
PCB-1262 Peak 5	8.10	8.07	8.13

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/4 Calibration Date: 04/14/2015 12:46

Instrument ID: HP37 Calib Start Date: 03/31/2015 03:59

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 05:31

Lab File ID: 041415hp37.004dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	0.1139	0.0885		0.778	1.00	-22.2*	20.0
PCB-1232 Peak 2	Ave	0.1040	0.0803		0.772	1.00	-22.8*	20.0
PCB-1232 Peak 3	Ave	0.0872	0.0595		0.682	1.00	-31.8*	20.0
PCB-1232 Peak 4	Ave	0.1181	0.1033		0.875	1.00	-12.5	20.0
PCB-1232 Peak 5	Ave	0.0487	0.0392		0.804	1.00	-19.6	20.0
PCB-1262 Peak 1	Ave	0.3526	0.2828		0.802	1.00	-19.8	20.0
PCB-1262 Peak 2	Ave	0.7179	0.5379		0.749	1.00	-25.1*	20.0
PCB-1262 Peak 3	Ave	0.5064	0.4039		0.798	1.00	-20.2*	20.0
PCB-1262 Peak 4	Ave	0.0970	0.0770		0.794	1.00	-20.6*	20.0
PCB-1262 Peak 5	Ave	0.0805	0.0612		0.761	1.00	-23.9*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/4 Calibration Date: 04/14/2015 12:46

Instrument ID: HP37 Calib Start Date: 03/31/2015 03:59

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 05:31

Lab File ID: 041415hp37.004dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.40	2.37	2.43
PCB-1232 Peak 2	2.74	2.71	2.77
PCB-1232 Peak 3	3.15	3.12	3.18
PCB-1232 Peak 4	3.17	3.14	3.20
PCB-1232 Peak 5	3.41	3.38	3.44
PCB-1262 Peak 1	6.50	6.47	6.53
PCB-1262 Peak 2	6.83	6.80	6.86
PCB-1262 Peak 3	7.32	7.29	7.35
PCB-1262 Peak 4	7.88	7.85	7.91
PCB-1262 Peak 5	8.56	8.53	8.59

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/5 Calibration Date: 04/14/2015 13:02

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.005dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin2		0.0289		0.868	1.00	-13.2	20.0
PCB-1242 Peak 2	Lin2		0.0227		0.912	1.00	-8.8	20.0
PCB-1242 Peak 3	Lin2		0.0163		0.813	1.00	-18.7	20.0
PCB-1242 Peak 4	Lin2		0.0204		0.965	1.00	-3.5	20.0
PCB-1242 Peak 5	Lin2		0.0272		0.905	1.00	-9.5	20.0
PCB-1268 Peak 1	Lin2		0.1736		0.881	1.00	-11.9	20.0
PCB-1268 Peak 2	Lin2		0.1697		0.895	1.00	-10.5	20.0
PCB-1268 Peak 3	Lin2		0.1348		0.853	1.00	-14.8	20.0
PCB-1268 Peak 4	Lin2		0.0584		0.808	1.00	-19.2	20.0
PCB-1268 Peak 5	Lin2		0.3676		0.754	1.00	-24.6*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/5 Calibration Date: 04/14/2015 13:02

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.005dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.16	3.13	3.19
PCB-1242 Peak 2	3.22	3.19	3.25
PCB-1242 Peak 3	3.34	3.31	3.37
PCB-1242 Peak 4	3.36	3.33	3.39
PCB-1242 Peak 5	3.57	3.54	3.60
PCB-1268 Peak 1	6.92	6.89	6.95
PCB-1268 Peak 2	6.98	6.95	7.01
PCB-1268 Peak 3	7.24	7.21	7.27
PCB-1268 Peak 4	7.71	7.68	7.74
PCB-1268 Peak 5	8.10	8.07	8.13

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/5 Calibration Date: 04/14/2015 13:02

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.005dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.1395	0.1139		0.816	1.00	-18.4	20.0
PCB-1242 Peak 2	Ave	0.0866	0.0711		0.822	1.00	-17.8	20.0
PCB-1242 Peak 3	Ave	0.0820	0.0661		0.807	1.00	-19.3	20.0
PCB-1242 Peak 4	Ave	0.0858	0.0697		0.812	1.00	-18.8	20.0
PCB-1242 Peak 5	Ave	0.1179	0.0959		0.813	1.00	-18.7	20.0
PCB-1268 Peak 1	Ave	0.1856	0.1465		0.789	1.00	-21.1*	20.0
PCB-1268 Peak 2	Ave	0.7508	0.5732		0.764	1.00	-23.7*	20.0
PCB-1268 Peak 3	Ave	0.6162	0.4490		0.729	1.00	-27.1*	20.0
PCB-1268 Peak 4	Ave	0.2779	0.2061		0.742	1.00	-25.8*	20.0
PCB-1268 Peak 5	Ave	0.3800	0.2663		0.701	1.00	-29.9*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/5 Calibration Date: 04/14/2015 13:02

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.005dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.31	3.28	3.34
PCB-1242 Peak 2	3.41	3.38	3.44
PCB-1242 Peak 3	3.51	3.48	3.54
PCB-1242 Peak 4	3.55	3.52	3.58
PCB-1242 Peak 5	3.79	3.76	3.82
PCB-1268 Peak 1	6.50	6.47	6.53
PCB-1268 Peak 2	7.38	7.35	7.41
PCB-1268 Peak 3	7.72	7.69	7.75
PCB-1268 Peak 4	8.11	8.08	8.14
PCB-1268 Peak 5	8.91	8.88	8.94

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/6 Calibration Date: 04/14/2015 13:18

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.006dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin2		0.0448		0.912	1.00	-8.8	20.0
PCB-1248 Peak 2	Lin2		0.0287		0.897	1.00	-10.3	20.0
PCB-1248 Peak 3	Lin2		0.0523		0.913	1.00	-8.7	20.0
PCB-1248 Peak 4	Lin2		0.0505		0.969	1.00	-3.1	20.0
PCB-1248 Peak 5	Lin2		0.0450		0.956	1.00	-4.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/6 Calibration Date: 04/14/2015 13:18

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.006dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.57	3.54	3.60
PCB-1248 Peak 2	3.66	3.63	3.69
PCB-1248 Peak 3	4.02	3.99	4.05
PCB-1248 Peak 4	4.05	4.02	4.08
PCB-1248 Peak 5	4.27	4.24	4.30

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/6 Calibration Date: 04/14/2015 13:18

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.006dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.1880	0.1581		0.841	1.00	-15.9	20.0
PCB-1248 Peak 2	Ave	0.1709	0.1629		0.953	1.00	-4.7	20.0
PCB-1248 Peak 3	Ave	0.2222	0.1888		0.850	1.00	-15.0	20.0
PCB-1248 Peak 4	Ave	0.2444	0.2109		0.863	1.00	-13.7	20.0
PCB-1248 Peak 5	Ave	0.2335	0.1973		0.845	1.00	-15.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/6 Calibration Date: 04/14/2015 13:18

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.006dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.79	3.76	3.82
PCB-1248 Peak 2	3.93	3.90	3.96
PCB-1248 Peak 3	4.21	4.18	4.24
PCB-1248 Peak 4	4.27	4.24	4.30
PCB-1248 Peak 5	4.53	4.50	4.56

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/78 Calibration Date: 04/15/2015 11:51

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.078dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin2		0.0296		0.890	1.00	-11.0	20.0
PCB-1242 Peak 2	Lin2		0.0240		0.967	1.00	-3.4	20.0
PCB-1242 Peak 3	Lin2		0.0174		0.869	1.00	-13.1	20.0
PCB-1242 Peak 4	Lin2		0.0207		0.980	1.00	-2.0	20.0
PCB-1242 Peak 5	Lin2		0.0274		0.913	1.00	-8.7	20.0
PCB-1268 Peak 1	Lin2		0.1824		0.926	1.00	-7.4	20.0
PCB-1268 Peak 2	Lin2		0.1820		0.961	1.00	-3.9	20.0
PCB-1268 Peak 3	Lin2		0.1418		0.898	1.00	-10.2	20.0
PCB-1268 Peak 4	Lin2		0.0613		0.849	1.00	-15.1	20.0
PCB-1268 Peak 5	Lin2		0.3822		0.784	1.00	-21.6*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/78 Calibration Date: 04/15/2015 11:51

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.078dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.16	3.13	3.19
PCB-1242 Peak 2	3.22	3.19	3.25
PCB-1242 Peak 3	3.34	3.31	3.37
PCB-1242 Peak 4	3.37	3.34	3.40
PCB-1242 Peak 5	3.58	3.55	3.61
PCB-1268 Peak 1	6.93	6.90	6.96
PCB-1268 Peak 2	6.98	6.95	7.01
PCB-1268 Peak 3	7.24	7.21	7.27
PCB-1268 Peak 4	7.72	7.69	7.75
PCB-1268 Peak 5	8.11	8.08	8.14

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/78 Calibration Date: 04/15/2015 11:51

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.078dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.1395	0.1103		0.791	1.00	-21.0*	20.0
PCB-1242 Peak 2	Ave	0.0866	0.0679		0.785	1.00	-21.5*	20.0
PCB-1242 Peak 3	Ave	0.0820	0.0623		0.759	1.00	-24.1*	20.0
PCB-1242 Peak 4	Ave	0.0858	0.0666		0.776	1.00	-22.4*	20.0
PCB-1242 Peak 5	Ave	0.1179	0.0919		0.779	1.00	-22.1*	20.0
PCB-1268 Peak 1	Ave	0.1856	0.1458		0.785	1.00	-21.5*	20.0
PCB-1268 Peak 2	Ave	0.7508	0.5895		0.785	1.00	-21.5*	20.0
PCB-1268 Peak 3	Ave	0.6162	0.4145		0.673	1.00	-32.7*	20.0
PCB-1268 Peak 4	Ave	0.2779	0.1999		0.720	1.00	-28.1*	20.0
PCB-1268 Peak 5	Ave	0.3800	0.2522		0.664	1.00	-33.6*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/78 Calibration Date: 04/15/2015 11:51

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.078dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.31	3.28	3.34
PCB-1242 Peak 2	3.41	3.38	3.44
PCB-1242 Peak 3	3.50	3.47	3.53
PCB-1242 Peak 4	3.55	3.52	3.58
PCB-1242 Peak 5	3.79	3.76	3.82
PCB-1268 Peak 1	6.50	6.47	6.53
PCB-1268 Peak 2	7.37	7.34	7.40
PCB-1268 Peak 3	7.72	7.69	7.75
PCB-1268 Peak 4	8.11	8.08	8.14
PCB-1268 Peak 5	8.91	8.88	8.94

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/79 Calibration Date: 04/15/2015 12:07

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.079dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin2		0.0459		0.934	1.00	-6.6	20.0
PCB-1248 Peak 2	Lin2		0.0302		0.945	1.00	-5.5	20.0
PCB-1248 Peak 3	Lin2		0.0539		0.940	1.00	-6.0	20.0
PCB-1248 Peak 4	Lin2		0.0538		1.03	1.00	3.3	20.0
PCB-1248 Peak 5	Lin2		0.0466		0.990	1.00	-1.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/79 Calibration Date: 04/15/2015 12:07

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.079dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.57	3.54	3.60
PCB-1248 Peak 2	3.66	3.63	3.69
PCB-1248 Peak 3	4.02	3.99	4.05
PCB-1248 Peak 4	4.05	4.02	4.08
PCB-1248 Peak 5	4.27	4.24	4.30

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/79 Calibration Date: 04/15/2015 12:07

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.079dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.1880	0.1600		0.851	1.00	-14.9	20.0
PCB-1248 Peak 2	Ave	0.1709	0.1652		0.967	1.00	-3.3	20.0
PCB-1248 Peak 3	Ave	0.2222	0.1891		0.851	1.00	-14.9	20.0
PCB-1248 Peak 4	Ave	0.2444	0.2126		0.870	1.00	-13.0	20.0
PCB-1248 Peak 5	Ave	0.2335	0.1985		0.850	1.00	-15.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/79 Calibration Date: 04/15/2015 12:07

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.079dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.79	3.76	3.82
PCB-1248 Peak 2	3.93	3.90	3.96
PCB-1248 Peak 3	4.21	4.18	4.24
PCB-1248 Peak 4	4.27	4.24	4.30
PCB-1248 Peak 5	4.53	4.50	4.56

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.080dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 4	Ave	0.4816	0.0000			1.00	-100.0*	20.0
PCB-1221 Peak 5	Ave	0.0089	0.0000			1.00	-100.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.080dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 4	0.00	0.00	0.03
PCB-1221 Peak 5	0.00	0.00	0.03

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.080dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin2		0.0147		0.902	1.00	-9.8	20.0
PCB-1221 Peak 2	Lin2		0.0361		0.956	1.00	-4.5	20.0
PCB-1221 Peak 3	Lin2		0.0059		1.02	1.00	2.2	20.0
PCB-1254 Peak 1	Lin2		0.0552		1.06	1.00	5.6	20.0
PCB-1254 Peak 2	Lin2		0.0943		1.05	1.00	5.4	20.0
PCB-1254 Peak 3	Lin2		0.0743		1.08	1.00	8.3	20.0
PCB-1254 Peak 4	Lin2		0.0677		1.05	1.00	5.1	20.0
PCB-1254 Peak 5	Lin2		0.0960		1.02	1.00	1.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.080dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	2.16	2.13	2.19
PCB-1221 Peak 2	2.31	2.28	2.34
PCB-1221 Peak 3	3.03	3.00	3.06
PCB-1254 Peak 1	4.59	4.56	4.62
PCB-1254 Peak 2	4.73	4.70	4.76
PCB-1254 Peak 3	5.06	5.03	5.09
PCB-1254 Peak 4	5.29	5.26	5.32
PCB-1254 Peak 5	5.64	5.61	5.67

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.080dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 4	Ave	0.0355	0.0000			1.00	-100.0*	20.0
PCB-1221 Peak 5	Ave	0.0372	0.0000			1.00	-100.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.080dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 4	0.00	0.00	0.03
PCB-1221 Peak 5	0.00	0.00	0.03

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.080dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin2		0.0460		0.878	1.00	-12.2	20.0
PCB-1221 Peak 2	Lin2		0.1088		0.893	1.00	-10.7	20.0
PCB-1221 Peak 3	Lin2		0.0182		0.995	1.00	-0.5	20.0
PCB-1254 Peak 1	Lin2		0.2279		0.964	1.00	-3.6	20.0
PCB-1254 Peak 2	Lin2	0.3750	0.3320		0.984	1.00	-1.6	20.0
PCB-1254 Peak 3	Lin2		0.2439		0.976	1.00	-2.4	20.0
PCB-1254 Peak 4	Lin2		0.1443		0.970	1.00	-3.1	20.0
PCB-1254 Peak 5	Ave	0.3132	0.2809		0.970	1.00	-10.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.080dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	2.24	2.21	2.27
PCB-1221 Peak 2	2.40	2.37	2.43
PCB-1221 Peak 3	3.17	3.14	3.20
PCB-1254 Peak 1	4.48	4.45	4.51
PCB-1254 Peak 2	5.03	5.00	5.06
PCB-1254 Peak 3	5.31	5.28	5.34
PCB-1254 Peak 4	5.54	5.51	5.57
PCB-1254 Peak 5	6.00	5.97	6.03

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-239249/1-A

Matrix: Water | Lab File ID: 041415hp37.042dat.d

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1000(mL) | Date Analyzed: 04/14/2015 22:39

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.500	U	0.500	0.0640
12672-29-6	PCB-1248	0.500	U	0.500	0.0690
11097-69-1	PCB-1254	0.500	U	0.500	0.00700

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	80		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 490-239249/1-A

Matrix: Water Lab File ID: 041415hp37.042dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2015 22:39

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-50 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	66		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75790-1

SDG No.:

Client Sample ID: | Lab Sample ID: CCB 490-241134/7

Matrix: Water | Lab File ID: 041415hp37.007dat.d

Analysis Method: 8082A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/14/2015 13:33

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 | Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.0300	U	0.0300	0.00640
12672-29-6	PCB-1248	0.0300	U	0.0300	0.00690
11097-69-1	PCB-1254	0.0300	U	0.0300	0.00700

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)			
877-09-8	Tetrachloro-m-xylene			

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 490-241134/81

Matrix: Water Lab File ID: 041415hp37.081dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/15/2015 12:38

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.0300	U	0.0300	0.00640
12672-29-6	PCB-1248	0.0300	U	0.0300	0.00690
11097-69-1	PCB-1254	0.0300	U	0.0300	0.00700

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)			
877-09-8	Tetrachloro-m-xylene			

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 490-239249/2-A

Matrix: Water Lab File ID: 041415hp37.043dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2015 22:55

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	78		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 490-239249/2-A

Matrix: Water Lab File ID: 041415hp37.043dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2015 22:55

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-50 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	64		10-150

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Start Date: 03/31/2015 01:54

Analysis Batch Number: 237639 End Date: 03/31/2015 10:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 490-237639/25		03/31/2015 01:54	1	033015hp37.025dat.d	RTX-5 0.32(mm)
IC 490-237639/25		03/31/2015 01:54	1	033015hp37.025dat.d	RTX-50 0.32(mm)
IC 490-237639/26		03/31/2015 02:10	1	033015hp37.026dat.d	RTX-5 0.32(mm)
IC 490-237639/26		03/31/2015 02:10	1	033015hp37.026dat.d	RTX-50 0.32(mm)
IC 490-237639/27		03/31/2015 02:25	1	033015hp37.027dat.d	RTX-5 0.32(mm)
IC 490-237639/27		03/31/2015 02:25	1	033015hp37.027dat.d	RTX-50 0.32(mm)
IC 490-237639/28		03/31/2015 02:41	1	033015hp37.028dat.d	RTX-5 0.32(mm)
IC 490-237639/28		03/31/2015 02:41	1	033015hp37.028dat.d	RTX-50 0.32(mm)
ICIS 490-237639/29		03/31/2015 02:56	1	033015hp37.029dat.d	RTX-5 0.32(mm)
ICIS 490-237639/29		03/31/2015 02:56	1	033015hp37.029dat.d	RTX-50 0.32(mm)
IC 490-237639/30		03/31/2015 03:12	1	033015hp37.030dat.d	RTX-5 0.32(mm)
IC 490-237639/30		03/31/2015 03:12	1	033015hp37.030dat.d	RTX-50 0.32(mm)
IC 490-237639/31		03/31/2015 03:27	1	033015hp37.031dat.d	RTX-5 0.32(mm)
IC 490-237639/31		03/31/2015 03:27	1	033015hp37.031dat.d	RTX-50 0.32(mm)
ICV 490-237639/32		03/31/2015 03:43	1		RTX-5 0.32(mm)
ICV 490-237639/32		03/31/2015 03:43	1		RTX-50 0.32(mm)
IC 490-237639/33		03/31/2015 03:59	1	033015hp37.033dat.d	RTX-5 0.32(mm)
IC 490-237639/33		03/31/2015 03:59	1	033015hp37.033dat.d	RTX-50 0.32(mm)
IC 490-237639/34		03/31/2015 04:14	1	033015hp37.034dat.d	RTX-5 0.32(mm)
IC 490-237639/34		03/31/2015 04:14	1	033015hp37.034dat.d	RTX-50 0.32(mm)
IC 490-237639/35		03/31/2015 04:30	1	033015hp37.035dat.d	RTX-5 0.32(mm)
IC 490-237639/35		03/31/2015 04:30	1	033015hp37.035dat.d	RTX-50 0.32(mm)
IC 490-237639/36		03/31/2015 04:45	1	033015hp37.036dat.d	RTX-5 0.32(mm)
IC 490-237639/36		03/31/2015 04:45	1	033015hp37.036dat.d	RTX-50 0.32(mm)
ICIS 490-237639/37		03/31/2015 05:00	1	033015hp37.037dat.d	RTX-5 0.32(mm)
ICIS 490-237639/37		03/31/2015 05:00	1	033015hp37.037dat.d	RTX-50 0.32(mm)
IC 490-237639/38		03/31/2015 05:16	1	033015hp37.038dat.d	RTX-5 0.32(mm)
IC 490-237639/38		03/31/2015 05:16	1	033015hp37.038dat.d	RTX-50 0.32(mm)
IC 490-237639/39		03/31/2015 05:31	1	033015hp37.039dat.d	RTX-5 0.32(mm)
IC 490-237639/39		03/31/2015 05:31	1	033015hp37.039dat.d	RTX-50 0.32(mm)
ICV 490-237639/40		03/31/2015 05:47	1		RTX-5 0.32(mm)
ICV 490-237639/40		03/31/2015 05:47	1		RTX-50 0.32(mm)
IC 490-237639/41		03/31/2015 06:02	1	033015hp37.041dat.d	RTX-5 0.32(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Start Date: 03/31/2015 01:54

Analysis Batch Number: 237639 End Date: 03/31/2015 10:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 490-237639/41		03/31/2015 06:02	1	033015hp37.041dat.d	RTX-50 0.32(mm)
IC 490-237639/42		03/31/2015 06:18	1	033015hp37.042dat.d	RTX-5 0.32(mm)
IC 490-237639/42		03/31/2015 06:18	1	033015hp37.042dat.d	RTX-50 0.32(mm)
IC 490-237639/43		03/31/2015 06:33	1	033015hp37.043dat.d	RTX-5 0.32(mm)
IC 490-237639/43		03/31/2015 06:33	1	033015hp37.043dat.d	RTX-50 0.32(mm)
IC 490-237639/44		03/31/2015 06:49	1	033015hp37.044dat.d	RTX-5 0.32(mm)
IC 490-237639/44		03/31/2015 06:49	1	033015hp37.044dat.d	RTX-50 0.32(mm)
ICIS 490-237639/45		03/31/2015 07:04	1	033015hp37.045dat.d	RTX-5 0.32(mm)
ICIS 490-237639/45		03/31/2015 07:04	1	033015hp37.045dat.d	RTX-50 0.32(mm)
IC 490-237639/46		03/31/2015 07:20	1	033015hp37.046dat.d	RTX-5 0.32(mm)
IC 490-237639/46		03/31/2015 07:20	1	033015hp37.046dat.d	RTX-50 0.32(mm)
IC 490-237639/47		03/31/2015 07:35	1	033015hp37.047dat.d	RTX-5 0.32(mm)
IC 490-237639/47		03/31/2015 07:35	1	033015hp37.047dat.d	RTX-50 0.32(mm)
ICV 490-237639/48		03/31/2015 07:51	1		RTX-5 0.32(mm)
ICV 490-237639/48		03/31/2015 07:51	1		RTX-50 0.32(mm)
IC 490-237639/49		03/31/2015 08:07	1	033015hp37.049dat.d	RTX-5 0.32(mm)
IC 490-237639/49		03/31/2015 08:07	1	033015hp37.049dat.d	RTX-50 0.32(mm)
IC 490-237639/50		03/31/2015 08:22	1	033015hp37.050dat.d	RTX-5 0.32(mm)
IC 490-237639/50		03/31/2015 08:22	1	033015hp37.050dat.d	RTX-50 0.32(mm)
IC 490-237639/51		03/31/2015 08:37	1	033015hp37.051dat.d	RTX-5 0.32(mm)
IC 490-237639/51		03/31/2015 08:37	1	033015hp37.051dat.d	RTX-50 0.32(mm)
IC 490-237639/52		03/31/2015 08:53	1	033015hp37.052dat.d	RTX-5 0.32(mm)
IC 490-237639/52		03/31/2015 08:53	1	033015hp37.052dat.d	RTX-50 0.32(mm)
ICIS 490-237639/53		03/31/2015 09:09	1	033015hp37.053dat.d	RTX-5 0.32(mm)
ICIS 490-237639/53		03/31/2015 09:09	1	033015hp37.053dat.d	RTX-50 0.32(mm)
IC 490-237639/54		03/31/2015 09:24	1	033015hp37.054dat.d	RTX-5 0.32(mm)
IC 490-237639/54		03/31/2015 09:24	1	033015hp37.054dat.d	RTX-50 0.32(mm)
IC 490-237639/55		03/31/2015 09:40	1	033015hp37.055dat.d	RTX-5 0.32(mm)
IC 490-237639/55		03/31/2015 09:40	1	033015hp37.055dat.d	RTX-50 0.32(mm)
ICV 490-237639/56		03/31/2015 09:55	1		RTX-5 0.32(mm)
ICV 490-237639/56		03/31/2015 09:55	1		RTX-50 0.32(mm)
ICB 490-237639/57		03/31/2015 10:11	1		RTX-5 0.32(mm)
ICB 490-237639/57		03/31/2015 10:11	1		RTX-50 0.32(mm)

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PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Start Date: 03/31/2015 16:05

Analysis Batch Number: 237912 End Date: 03/31/2015 23:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/31/2015 16:05	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 16:05	1		RTX-50 0.32(mm)
IC 490-237912/3		03/31/2015 16:21	1	033115hp37.003dat.d	RTX-5 0.32(mm)
IC 490-237912/3		03/31/2015 16:21	1	033115hp37.003dat.d	RTX-50 0.32(mm)
IC 490-237912/4		03/31/2015 16:36	1	033115hp37.004dat.d	RTX-5 0.32(mm)
IC 490-237912/4		03/31/2015 16:36	1	033115hp37.004dat.d	RTX-50 0.32(mm)
IC 490-237912/5		03/31/2015 16:52	1	033115hp37.005dat.d	RTX-5 0.32(mm)
IC 490-237912/5		03/31/2015 16:52	1	033115hp37.005dat.d	RTX-50 0.32(mm)
IC 490-237912/6		03/31/2015 17:08	1	033115hp37.006dat.d	RTX-5 0.32(mm)
IC 490-237912/6		03/31/2015 17:08	1	033115hp37.006dat.d	RTX-50 0.32(mm)
ICRT 490-237912/7		03/31/2015 17:23	1	033115hp37.007dat.d	RTX-5 0.32(mm)
ICRT 490-237912/7		03/31/2015 17:23	1	033115hp37.007dat.d	RTX-50 0.32(mm)
IC 490-237912/8		03/31/2015 17:39	1	033115hp37.008dat.d	RTX-5 0.32(mm)
IC 490-237912/8		03/31/2015 17:39	1	033115hp37.008dat.d	RTX-50 0.32(mm)
IC 490-237912/9		03/31/2015 17:54	1	033115hp37.009dat.d	RTX-5 0.32(mm)
IC 490-237912/9		03/31/2015 17:54	1	033115hp37.009dat.d	RTX-50 0.32(mm)
ICV 490-237912/10		03/31/2015 18:10	1	033115hp37.010dat.d	RTX-5 0.32(mm)
ICV 490-237912/10		03/31/2015 18:10	1	033115hp37.010dat.d	RTX-50 0.32(mm)
ICB 490-237912/11		03/31/2015 18:26	1		RTX-5 0.32(mm)
ICB 490-237912/11		03/31/2015 18:26	1		RTX-50 0.32(mm)
CCV 490-237912/12		03/31/2015 18:41	1		RTX-5 0.32(mm)
CCV 490-237912/12		03/31/2015 18:41	1		RTX-50 0.32(mm)
CCV 490-237912/13		03/31/2015 18:57	1		RTX-5 0.32(mm)
CCV 490-237912/13		03/31/2015 18:57	1		RTX-50 0.32(mm)
CCV 490-237912/14		03/31/2015 19:13	1		RTX-5 0.32(mm)
CCV 490-237912/14		03/31/2015 19:13	1		RTX-50 0.32(mm)
CCV 490-237912/15		03/31/2015 19:29	1		RTX-5 0.32(mm)
CCV 490-237912/15		03/31/2015 19:29	1		RTX-50 0.32(mm)
CCB 490-237912/16		03/31/2015 19:44	1		RTX-5 0.32(mm)
CCB 490-237912/16		03/31/2015 19:44	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 20:00	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 20:00	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 20:16	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 20:16	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 20:31	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 20:31	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 20:47	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 20:47	1		RTX-50 0.32(mm)

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PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Start Date: 03/31/2015 16:05

Analysis Batch Number: 237912 End Date: 03/31/2015 23:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/31/2015 21:03	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 21:03	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 21:18	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 21:18	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 21:34	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 21:34	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 21:50	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 21:50	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 22:37	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 22:37	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 22:52	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 22:52	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 23:09	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 23:09	1		RTX-50 0.32(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Start Date: 04/14/2015 12:15

Analysis Batch Number: 241134 End Date: 04/15/2015 12:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 490-241134/2		04/14/2015 12:15	1	041415hp37.002dat.d	RTX-5 0.32(mm)
CCVRT 490-241134/2		04/14/2015 12:15	1	041415hp37.002dat.d	RTX-50 0.32(mm)
CCV 490-241134/3		04/14/2015 12:31	1	041415hp37.003dat.d	RTX-5 0.32(mm)
CCV 490-241134/3		04/14/2015 12:31	1	041415hp37.003dat.d	RTX-50 0.32(mm)
CCV 490-241134/4		04/14/2015 12:46	1	041415hp37.004dat.d	RTX-5 0.32(mm)
CCV 490-241134/4		04/14/2015 12:46	1	041415hp37.004dat.d	RTX-50 0.32(mm)
CCV 490-241134/5		04/14/2015 13:02	1	041415hp37.005dat.d	RTX-5 0.32(mm)
CCV 490-241134/5		04/14/2015 13:02	1	041415hp37.005dat.d	RTX-50 0.32(mm)
CCV 490-241134/6		04/14/2015 13:18	1	041415hp37.006dat.d	RTX-5 0.32(mm)
CCV 490-241134/6		04/14/2015 13:18	1	041415hp37.006dat.d	RTX-50 0.32(mm)
CCB 490-241134/7		04/14/2015 13:33	1	041415hp37.007dat.d	RTX-5 0.32(mm)
CCB 490-241134/7		04/14/2015 13:33	1	041415hp37.007dat.d	RTX-50 0.32(mm)
ZZZZZ		04/14/2015 13:49	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 13:49	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 14:04	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 14:04	1		RTX-50 0.32(mm)
		04/14/2015 14:20	1		RTX-5 0.32(mm)
		04/14/2015 14:20	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 14:35	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 14:35	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 14:51	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 14:51	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 15:22	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 15:22	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 15:38	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 15:38	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 15:53	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 15:53	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 16:09	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 16:09	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 16:25	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 16:25	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 16:40	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 16:40	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 16:56	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 16:56	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 17:12	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 17:12	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 17:27	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 17:27	1		RTX-50 0.32(mm)

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PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Start Date: 04/14/2015 12:15

Analysis Batch Number: 241134 End Date: 04/15/2015 12:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/14/2015 17:43	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 17:43	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 17:58	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 17:58	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 18:14	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 18:14	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 18:29	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 18:29	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 19:01	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 19:01	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 19:17	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 19:17	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 19:32	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 19:32	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 19:48	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 19:48	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 20:03	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 20:03	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 20:19	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 20:19	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 21:06	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 21:06	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 21:21	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 21:21	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 22:08	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 22:08	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 22:24	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 22:24	1		RTX-50 0.32(mm)
MB 490-239249/1-A		04/14/2015 22:39	1	041415hp37.042dat.d	RTX-5 0.32(mm)
MB 490-239249/1-A		04/14/2015 22:39	1	041415hp37.042dat.d	RTX-50 0.32(mm)
LCS 490-239249/2-A		04/14/2015 22:55	1	041415hp37.043dat.d	RTX-5 0.32(mm)
LCS 490-239249/2-A		04/14/2015 22:55	1	041415hp37.043dat.d	RTX-50 0.32(mm)
ZZZZZ		04/14/2015 23:10	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 23:10	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 23:26	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 23:26	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 23:42	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 23:42	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 23:57	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 23:57	1		RTX-50 0.32(mm)
490-75790-2	SPMW-18-GW-HS-040215	04/15/2015 00:13	1	041415hp37.048dat.d	RTX-5 0.32(mm)
490-75790-2	SPMW-18-GW-HS-040215	04/15/2015 00:13	1	041415hp37.048dat.d	RTX-50 0.32(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Start Date: 04/14/2015 12:15

Analysis Batch Number: 241134 End Date: 04/15/2015 12:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
490-75790-8	SWMW-5-GW-HS-040215	04/15/2015 00:44	1	041415hp37.050dat.d	RTX-5 0.32(mm)
490-75790-8	SWMW-5-GW-HS-040215	04/15/2015 00:44	1	041415hp37.050dat.d	RTX-50 0.32(mm)
490-75790-14	SWMW-6-GW-HS-040215	04/15/2015 01:31	1	041415hp37.053dat.d	RTX-5 0.32(mm)
490-75790-14	SWMW-6-GW-HS-040215	04/15/2015 01:31	1	041415hp37.053dat.d	RTX-50 0.32(mm)
ZZZZZ		04/15/2015 01:47	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 01:47	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 02:02	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 02:02	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 02:18	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 02:18	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 02:33	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 02:33	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 02:49	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 02:49	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 03:04	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 03:04	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 03:20	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 03:20	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 03:36	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 03:36	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 03:51	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 03:51	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 04:07	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 04:07	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 04:22	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 04:22	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 04:38	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 04:38	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 04:54	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 04:54	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 05:10	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 05:10	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 05:25	5		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 05:25	5		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 05:41	5		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 05:41	5		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 09:34	10		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 09:34	10		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 09:50	5		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 09:50	5		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 10:05	10		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 10:05	10		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 10:21	5		RTX-5 0.32(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Instrument ID: HP37 Start Date: 04/14/2015 12:15

Analysis Batch Number: 241134 End Date: 04/15/2015 12:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/15/2015 10:21	5		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 10:37	50		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 10:37	50		RTX-50 0.32(mm)
490-75790-7	SBMW-6-GW-HS-040215	04/15/2015 10:52	10	041415hp37.075dat.d	RTX-5 0.32(mm)
490-75790-7	SBMW-6-GW-HS-040215	04/15/2015 10:52	10	041415hp37.075dat.d	RTX-50 0.32(mm)
490-75790-10	SBMW-5-GW-HS-040215	04/15/2015 11:08	5	041415hp37.076dat.d	RTX-5 0.32(mm)
490-75790-10	SBMW-5-GW-HS-040215	04/15/2015 11:08	5	041415hp37.076dat.d	RTX-50 0.32(mm)
490-75790-11	SBMW-5-GW-HS-040215-FD	04/15/2015 11:23	5	041415hp37.077dat.d	RTX-5 0.32(mm)
490-75790-11	SBMW-5-GW-HS-040215-FD	04/15/2015 11:23	5	041415hp37.077dat.d	RTX-50 0.32(mm)
CCV 490-241134/78		04/15/2015 11:51	1	041415hp37.078dat.d	RTX-5 0.32(mm)
CCV 490-241134/78		04/15/2015 11:51	1	041415hp37.078dat.d	RTX-50 0.32(mm)
CCV 490-241134/79		04/15/2015 12:07	1	041415hp37.079dat.d	RTX-5 0.32(mm)
CCV 490-241134/79		04/15/2015 12:07	1	041415hp37.079dat.d	RTX-50 0.32(mm)
CCV 490-241134/80		04/15/2015 12:22	1	041415hp37.080dat.d	RTX-5 0.32(mm)
CCV 490-241134/80		04/15/2015 12:22	1	041415hp37.080dat.d	RTX-50 0.32(mm)
CCB 490-241134/81		04/15/2015 12:38	1	041415hp37.081dat.d	RTX-5 0.32(mm)
CCB 490-241134/81		04/15/2015 12:38	1	041415hp37.081dat.d	RTX-50 0.32(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Batch Number: 239249 Batch Start Date: 04/06/15 13:34 Batch Analyst: Trussell, Eric

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	OP_H2SO4 00013	OP_Hexane 00057	OP_MeCl2 00044
MB 490-239249/1		3510C, 8082A		7	1000 mL	5 mL	4 mL	4 mL	180 mL
LCS 490-239249/2		3510C, 8082A		7	1000 mL	5 mL	4 mL	4 mL	180 mL
490-75790-E-2	SPMW-18-GW-HS-040215	3510C, 8082A	T	7	1060 mL	5 mL	4 mL	4 mL	180 mL
490-75790-D-7	SBMW-6-GW-HS-040215	3510C, 8082A	T	7	1040 mL	5 mL	4 mL	4 mL	180 mL
490-75790-D-8	SWMW-5-GW-HS-040215	3510C, 8082A	T	7	450 mL	5 mL	4 mL	4 mL	180 mL
490-75790-D-10	SBMW-5-GW-HS-040215	3510C, 8082A	T	7	980 mL	5 mL	4 mL	4 mL	180 mL
490-75790-D-11	SBMW-5-GW-HS-040215-FD	3510C, 8082A	T	7	1070 mL	5 mL	4 mL	4 mL	180 mL
490-75790-E-14	SWMW-6-GW-HS-040215	3510C, 8082A	T	7	1040 mL	5 mL	4 mL	4 mL	180 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_NaSO4 00035	OP_PCB_SPK 00027	OP_PPCB_SUR 00032	PCB_Cu_GRAN 00004		
MB 490-239249/1		3510C, 8082A		25 g		1 mL	0.2 mL		
LCS 490-239249/2		3510C, 8082A		25 g	1 mL	1 mL	0.2 mL		
490-75790-E-2	SPMW-18-GW-HS-040215	3510C, 8082A	T	25 g		1 mL	0.2 mL		
490-75790-D-7	SBMW-6-GW-HS-040215	3510C, 8082A	T	25 g		1 mL	0.2 mL		
490-75790-D-8	SWMW-5-GW-HS-040215	3510C, 8082A	T	25 g		1 mL	0.2 mL		
490-75790-D-10	SBMW-5-GW-HS-040215	3510C, 8082A	T	25 g		1 mL	0.2 mL		
490-75790-D-11	SBMW-5-GW-HS-040215-FD	3510C, 8082A	T	25 g		1 mL	0.2 mL		
490-75790-E-14	SWMW-6-GW-HS-040215	3510C, 8082A	T	25 g		1 mL	0.2 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Nashville Job No.: 490-75790-1

SDG No.:

Batch Number: 239249 Batch Start Date: 04/06/15 13:34 Batch Analyst: Trussell, Eric

Batch Method: 3510C Batch End Date:

Batch Notes	
Person's name who did the concentration	mah,bd
Final Concentrator Volume	5 mL
Person's name who did the prep	et
Person's name who witnessed reagent drop	mm

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-75790 Chain of Custody

Cooler Received/Opened On: 4/3/2015 @0830

1. Tracking # 7164 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 96210146

2. Temperature of rep. sample or temp blank when opened: 1.3 *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) (+)

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 # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) EA

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)

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) EA

I certify that I attached a label with the unique LIMS number to each container (intial) EA

21. Were there Non-Conformance issues at login? (YES)...NO Was a NCM generated? (YES)...NO...# 43-15 EA 43-15 EA

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

Loc: 490
75790

COOLER RECEIPT FORM

Cooler Received/Opened On 4/3/2015 @ 8:30

1. Tracking # 2364 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 17610176

2. Temperature of rep. sample or temp blank when opened: 3.1 *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 Not Signed

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) AUH

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 # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) EM

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) EM

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) EM

I certify that I attached a label with the unique LIMS number to each container (intial) EM

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

Chain of Custody Record

1/3

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

04/20/2015

Client Information	Sampler: A Shwartz, J. Hawbric	Lab PM: Brown, Shali	Carrier Tracking No(s): 8050-4208-2364	COC No: 490-37072-12552.10
Client Contact: Lillian Furlow / Shannon Olson	Phone:	E-Mail: shali.brown@testamericainc.com		Page:
Company: CH2M Hill, Inc.				Job #:
Address: 400 Embassy Row 6600 Peachtree Dunwoody Road ~~Building~~ STE 400 -	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard 10 day TAT Level III Data Package			
State, Zip: GA, 30328				
Phone: 603-736-4111	PO #:			
Email: lillian.furlow@ch2m.com	WO #:			
Project Name: Sangamo Weston Annual 2015	Project #: 49005908			
Site:	SSOW#: (contract 472789-10001)			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	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) Appendix IX - CUSTOM List	8082A - Standard PCBs (1016-1260)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N		
TB-02-040215	4-2-15	0900	G	Water			2			Custom List: VOC's: cis 1,2 DCE, 1,1 DCE, PCE, trans 1,2 DCE, TCE & vinyl chloride PCBs: Aroclor 1242, 1248 & 1254
SPMW-8-GW-HS-040215		0930		Water			3	2		
SPRW-205-GW-HS-040215		1015		Water			2			
SPRW-204-GW-HS-040215		1030		Water			3			
SPRW-201-GW-HS-040215		1040		Water			3			
SPRW-206-GW-HS-040215		1050		Water			3			
SBMW-6-GW-HS-040215		1230		Water			3	2		
SWMW-5-GW-HS-040215		1245		Water			3	1		
SAMW-2-GW-HS-040215		1400		Water			3			
SBMW-5-GW-HS-040215		1445		Water			3	1		
SBMW-5-GW-HS-040215-FD	V	1450	V	W			3	1		

Loc: 490
75790

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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: 4-3-15 830	Company TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
ihed by:	Date/Time:	Company	Received by:	Date/Time:	Company

dy Seals Intact: Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.3

Chain of Custody Record 2/3

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information / Shannon Olson	Sampler: A Shwartz, J. Hambrick	Lab PM: Brown, Shali	Carrier Tracking No(s): 8050-4208-2364	COC No: 490-37072-12552.10
Client Contact: Lillian Furlow	Phone:	E-Mail: shali.brown@testamericainc.com		Page:
Company: CH2M Hill, Inc.				Job #:
Address: 400 Embassy Row 6600 Peachtree Dunwoody Road STE Building 600 -	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard 10 day TAT Level III Data Package			
State, Zip: GA, 30328				
Phone: 603-736-4111	PO #:			
Email: lillian.furlow@ch2m.com	WO #:			
Project Name: Sangamo Weston Annual 2015	Project #: 49005908			
Site:	SSOW#: (contract 472789-10001)			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	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) Appendix IX - CUSTOM List	8082A - Standard PCBs (1016-1260)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N		
SBMW-3-GW-HS-040215	4-2-15	1500	G	Water			3			See custom list
SBMW-7-GW-HS-040215		1520		Water			3			pg. 1
SWMW-6-GW-HS-040215		1630		Water			3	2		
SPMW-5-GW-HS-040215		0855		Water			3			
SPMW-6-GW-HS-040215		0916		Water			3			
SPMW-9-GW-HS-040215		0910		Water			3			
BRMW-09-GW-HS-040215		1455		Water			9			MS/MSD
BRMW-08-GW-HS-040215		1535		Water			3			w/ Ascorbic Acid
BRMW-03-GW-HS-040215		1550		Water			3			~~w/ AS~~ ADS
BRMW-03A-GW-HS-040215		1555		Water			3			w/ Ascorbic Acid
BRMW-14-GW-HS-040215		1605		W			3			

Loc: 490
75790

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: 4-3-15 830	Company CAN
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: 1.3

04/20/2015

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Chain of Custody Record 3/3

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

04/20/2015

Client Information	Sampler: Schwartz / Hawbrick	Lab PM: Brown, Shali	Carrier Tracking No(s): 8050-4208-2364	COC No: 490-37072-12552.10
Client Contact: Lillian Furlow / Sherman Olson	Phone:	E-Mail: shali.brown@testamericainc.com		Page:
Company: CH2M Hill, Inc.				Job #:
Address: Embassy Row 6600 Peachtree Dunwoody Road Building 400 - STE 600	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard 10 day TAT Level III Data Package			
State, Zip: GA, 30328				
Phone: 603-736-4111	PO #:			
Email: lillian.furlow@ch2m.com	WO #:			
Project Name: Sangamo Weston Annual 2015	Project #: 49005908			
Site:	SSOW#: (contract 472789-10001)			

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 - Na2S2SO3
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) Appendix IX - CUSTOM List	8082A - Standard PCBs (1016-1260)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N		
BRMW-14A-GW-HS-040215	4-2-15	1615	G	Water			3			see custom list pg 2 w/ ascorbic acid
BRMW-12A-GW-HS-040215		1625		Water			3			
BRMW-02-GW-HS-040215		1640		Water			3			
BRMW-02A-GW-HS-040215		1645		Water			3			
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						

Loc: 490
75790
#1
A

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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
				4-3-15 830	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: 1.3

Login Sample Receipt Checklist

Client: CH2M Hill, Inc.

Job Number: 490-75790-1

Login Number: 75790

List Source: TestAmerica Nashville

List Number: 1

Creator: Abernathy, Eric

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.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 490-75933-1

Job Description: Schlumberger Sangamo OU-1 GW 2015

For:
CH2M Hill, Inc.
Embassy Row
6600 Peachtree Dunwoody Road
Building 400 - Suite 600
Atlanta, GA 30328

Attention: Lillian Furlow

Approved for release.
Shali Brown
Project Manager II
4/27/2015 2:47 PM

Shali Brown, Project Manager II
2960 Foster Creighton Drive, Nashville, TN, 37204
(615)301-5031
shali.brown@testamericainc.com
04/27/2015

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CASE NARRATIVE

Client: CH2M Hill, Inc.

Project: Schlumberger Sangamo OU-1 GW 2015

Report Number: 490-75933-1

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

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

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

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 4/4/2015 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2º C and 4.9º C.

Except:

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): BRMW-10-GW-HS-040215 (490-75933-1), BRMW-10-GW-HS-040215-FD (490-75933-2). The container labels list BRMW-11, while the COC lists BRMW-10. The client was contacted; reference email in the chain of custody sectiion of this report for sample ID changes.

One or more containers for the following samples was received broken or leaking: BRMW-11-GW-HS-040215-FD (490-75933-2), BRMW-04A-GW-HS-040215 (490-75933-7) and SPRW-303A-GW-HS-040315-FD (490-75933-24). One voa vial for each sample was broken in shipment. Lab has additional vials for analysis.

The following sample was received with headspace in the sample vial: 490-75933-19 (SPMW-2-GW-040315) - there was headspace in one voa vial; the lab has other vials for analysis.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples BRMW-11-GW-HS-040215 (490-75933-1), BRMW-11-GW-HS-040215-FD (490-75933-2), BRMW-10-GW-HS-040215 (490-75933-3), BRMW-05-GW-HS-040215 (490-75933-4), BRMW-05A-GW-HS-040215 (490-75933-5), BRMW-04-GW-HS-040215 (490-75933-6), BRMW-04A-GW-HS-040215 (490-75933-7), BRMW-01-GW-HS-040215 (490-75933-8), TB-03-040215 (490-75933-9), SPRW-701-GW-040315 (490-75933-10), SPRW-702-GW-040315 (490-75933-11), SPRW-702-GW-040315-FD (490-75933-12), SPRW-302-GW-HS-040315 (490-75933-13), SPRW-301-GW-HS-040315 (490-75933-14), SPMW-4A-GW-HS-040315 (490-75933-15), SPMW-4-GW-HS-040315 (490-75933-16), SHMW-10-GW-HS-040315 (490-75933-17), SPMW-14A-GW-HS-040315 (490-75933-18), SPMW-2-GW-HS-040315 (490-75933-19), SDMW-1-GW-HS-040315 (490-75933-20), SFMW-6-GW-HS-040315 (490-75933-21), SPMW-11-GW-HS-040315 (490-75933-22), SPRW-303A-GW-HS-040315 (490-75933-23) and SPRW-303A-GW-HS-040315-FD (490-75933-24) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/11/2015, 04/13/2015 and 04/14/2015.

Tetrachloroethene failed the recovery criteria low for the MS of sample SPRW-702-GW-040315MS (490-75933-11) in batch 490-240523. Tetrachloroethene failed the recovery criteria low for the MSD of sample SPRW-702-GW-040315MSD (490-75933-11) in batch 490-240523.Refer to the QC report for details.

Samples BRMW-11-GW-HS-040215 (490-75933-1)[20X], BRMW-11-GW-HS-040215-FD (490-75933-2)[20X], SPRW-701-GW-040315 (490-75933-10)[5X], SPRW-702-GW-040315 (490-75933-11)[5X], SPRW-702-GW-040315-FD (490-75933-12)[5X], SPRW-302-GW-HS-040315 (490-75933-13)[5X], SPRW-303A-GW-HS-040315 (490-75933-23)[5X] and SPRW-303A-GW-HS-040315-FD (490-75933-24)[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.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples SPRW-701-GW-040315 (490-75933-10), SPRW-702-GW-040315 (490-75933-11), SPRW-702-GW-040315-FD (490-75933-12) and SPMW-14A-GW-HS-040315 (490-75933-18) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 04/06/2015 and 04/07/2015 and analyzed on 04/14/2015 and 04/15/2015.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 239550 and 239249.

Due to the high concentration of target analytes, the matrix spike / matrix spike duplicate (MS/MSD) associated with this sample could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.
SPRW-702-GW-040315 (490-75933-11),

The following samples were diluted due to the nature of the sample matrix: SPRW-702-GW-040315 (490-75933-11) and SPRW-702-GW-040315-FD (490-75933-12). Elevated reporting limits (RLs) are provided.

Samples SPRW-702-GW-040315 (490-75933-11)[5X] and SPRW-702-GW-040315-FD (490-75933-12)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP25 Analysis Batch Number: 238076

Lab Sample ID: STD001 490-238076/6 IC Client Sample ID:

Date Analyzed: 04/01/15 14:19 Lab File ID: 040115-06.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromo-3-Chloropropane	17.10	Poor chromatography	larsene	04/02/15 09:40

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP32 Analysis Batch Number: 233414

Lab Sample ID: STD0005 490-233414/2 IC Client Sample ID:

Date Analyzed: 03/13/15 11:26 Lab File ID: 031315-02.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	1.65	Poor chromatography	larsene	03/13/15 14:53

Lab Sample ID: STD001 490-233414/3 IC Client Sample ID:

Date Analyzed: 03/13/15 11:52 Lab File ID: 031315-03.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	1.65	Poor chromatography	larsene	03/13/15 13:51

Lab Sample ID: STD002 490-233414/4 IC Client Sample ID:

Date Analyzed: 03/13/15 12:19 Lab File ID: 031315-04.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	1.66	Split Peak	larsene	03/13/15 14:58

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/25 Client Sample ID:

Date Analyzed: 03/31/15 01:54 Lab File ID: 033015hp37.025dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:58
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:58
PCB-1221 Peak 3	3.05	Baseline Smoothing	thomash	03/31/15 11:58

Lab Sample ID: IC 490-237639/25 Client Sample ID:

Date Analyzed: 03/31/15 01:54 Lab File ID: 033015hp37.025dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 11:58
PCB-1221 Peak 1	2.25	Baseline Smoothing	thomash	03/31/15 11:58
PCB-1221 Peak 2	2.41	Baseline Smoothing	thomash	03/31/15 11:58
PCB-1221 Peak 3	3.18	Baseline Smoothing	thomash	03/31/15 11:58

Lab Sample ID: IC 490-237639/26 Client Sample ID:

Date Analyzed: 03/31/15 02:10 Lab File ID: 033015hp37.026dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 3	3.04	Baseline Smoothing	thomash	03/31/15 11:57

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/26 Client Sample ID:

Date Analyzed: 03/31/15 02:10 Lab File ID: 033015hp37.026dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 1	2.25	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 2	2.41	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 3	3.18	Baseline Smoothing	thomash	03/31/15 11:57

Lab Sample ID: IC 490-237639/27 Client Sample ID:

Date Analyzed: 03/31/15 02:25 Lab File ID: 033015hp37.027dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 3	3.04	Baseline Smoothing	thomash	03/31/15 11:57

Lab Sample ID: IC 490-237639/27 Client Sample ID:

Date Analyzed: 03/31/15 02:25 Lab File ID: 033015hp37.027dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 1	2.25	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 2	2.41	Baseline Smoothing	thomash	03/31/15 11:57
PCB-1221 Peak 3	3.18	Baseline Smoothing	thomash	03/31/15 11:57

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/28 Client Sample ID:

Date Analyzed: 03/31/15 02:41 Lab File ID: 033015hp37.028dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 3	3.05	Baseline Smoothing	thomash	03/31/15 11:56

Lab Sample ID: ICIS 490-237639/29 Client Sample ID:

Date Analyzed: 03/31/15 02:56 Lab File ID: 033015hp37.029dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 3	3.05	Baseline Smoothing	thomash	03/31/15 11:56

Lab Sample ID: ICIS 490-237639/29 Client Sample ID:

Date Analyzed: 03/31/15 02:56 Lab File ID: 033015hp37.029dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 1	2.25	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 2	2.41	Baseline Smoothing	thomash	03/31/15 11:56
PCB-1221 Peak 3	3.18	Baseline Smoothing	thomash	03/31/15 11:56

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/30 Client Sample ID:

Date Analyzed: 03/31/15 03:12 Lab File ID: 033015hp37.030dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 11:59
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:59
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:59
PCB-1221 Peak 3	3.05	Baseline Smoothing	thomash	03/31/15 11:59

Lab Sample ID: IC 490-237639/31 Client Sample ID:

Date Analyzed: 03/31/15 03:27 Lab File ID: 033015hp37.031dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 11:59
PCB-1221 Peak 1	2.17	Baseline Smoothing	thomash	03/31/15 11:59
PCB-1221 Peak 2	2.32	Baseline Smoothing	thomash	03/31/15 11:59
PCB-1221 Peak 3	3.05	Baseline Smoothing	thomash	03/31/15 11:59

Lab Sample ID: IC 490-237639/33 Client Sample ID:

Date Analyzed: 03/31/15 03:59 Lab File ID: 033015hp37.033dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:12

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/33 Client Sample ID:

Date Analyzed: 03/31/15 03:59 Lab File ID: 033015hp37.033dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1232 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 3	3.16	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 4	3.18	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1232 Peak 5	3.42	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1262 Peak 1	6.51	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1262 Peak 2	6.84	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1262 Peak 3	7.33	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1262 Peak 4	7.90	Baseline Smoothing	thomash	03/31/15 12:12
PCB-1262 Peak 5	8.57	Baseline Smoothing	thomash	03/31/15 12:12

Lab Sample ID: IC 490-237639/34 Client Sample ID:

Date Analyzed: 03/31/15 04:14 Lab File ID: 033015hp37.034dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:13

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/34 Client Sample ID:

Date Analyzed: 03/31/15 04:14 Lab File ID: 033015hp37.034dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.50	Incomplete Integration	thomash	03/31/15 12:13
PCB-1232 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 3	3.16	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 4	3.18	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 5	3.42	Baseline Smoothing	thomash	03/31/15 12:13

Lab Sample ID: IC 490-237639/35 Client Sample ID:

Date Analyzed: 03/31/15 04:30 Lab File ID: 033015hp37.035dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:13
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:13

Lab Sample ID: IC 490-237639/36 Client Sample ID:

Date Analyzed: 03/31/15 04:45 Lab File ID: 033015hp37.036dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:14

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/36 Client Sample ID:

Date Analyzed: 03/31/15 04:45 Lab File ID: 033015hp37.036dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 1	6.51	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 2	6.84	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 3	7.33	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 4	7.90	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 5	8.57	Baseline Smoothing	thomash	03/31/15 12:14

Lab Sample ID: ICIS 490-237639/37 Client Sample ID:

Date Analyzed: 03/31/15 05:00 Lab File ID: 033015hp37.037dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 1	6.12	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 2	6.53	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 3	7.00	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 4	7.39	Baseline Smoothing	thomash	03/31/15 12:14
PCB-1262 Peak 5	8.13	Baseline Smoothing	thomash	03/31/15 12:14

Lab Sample ID: ICIS 490-237639/37 Client Sample ID:

Date Analyzed: 03/31/15 05:00 Lab File ID: 033015hp37.037dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 12:14

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/38 Client Sample ID:

Date Analyzed: 03/31/15 05:16 Lab File ID: 033015hp37.038dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:15

Lab Sample ID: IC 490-237639/39 Client Sample ID:

Date Analyzed: 03/31/15 05:31 Lab File ID: 033015hp37.039dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 3	3.02	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 4	3.05	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 5	3.17	Baseline Smoothing	thomash	03/31/15 12:15

Lab Sample ID: IC 490-237639/39 Client Sample ID:

Date Analyzed: 03/31/15 05:31 Lab File ID: 033015hp37.039dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 3	3.16	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 4	3.18	Baseline Smoothing	thomash	03/31/15 12:15
PCB-1232 Peak 5	3.42	Baseline Smoothing	thomash	03/31/15 12:15

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/41 Client Sample ID:

Date Analyzed: 03/31/15 06:02 Lab File ID: 033015hp37.041dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 13:16
PCB-1242 Peak 1	3.17	Baseline Smoothing	thomash	03/31/15 13:16
PCB-1242 Peak 2	3.23	Baseline Smoothing	thomash	03/31/15 13:16
PCB-1242 Peak 3	3.35	Baseline Smoothing	thomash	03/31/15 13:16
PCB-1242 Peak 4	3.38	Baseline Smoothing	thomash	03/31/15 13:16
PCB-1242 Peak 5	3.59	Baseline Smoothing	thomash	03/31/15 13:16

Lab Sample ID: IC 490-237639/41 Client Sample ID:

Date Analyzed: 03/31/15 06:02 Lab File ID: 033015hp37.041dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.31	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:04

Lab Sample ID: IC 490-237639/42 Client Sample ID:

Date Analyzed: 03/31/15 06:18 Lab File ID: 033015hp37.042dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 1	3.17	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 2	3.24	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 3	3.35	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 4	3.38	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 5	3.59	Baseline Smoothing	thomash	03/31/15 13:04

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/42 Client Sample ID:

Date Analyzed: 03/31/15 06:18 Lab File ID: 033015hp37.042dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.31	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:04
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:04

Lab Sample ID: IC 490-237639/43 Client Sample ID:

Date Analyzed: 03/31/15 06:33 Lab File ID: 033015hp37.043dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.17	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 2	3.24	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 3	3.35	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 4	3.38	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 5	3.59	Baseline Smoothing	thomash	03/31/15 13:05

Lab Sample ID: IC 490-237639/43 Client Sample ID:

Date Analyzed: 03/31/15 06:33 Lab File ID: 033015hp37.043dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.31	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:05

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/44 Client Sample ID:

Date Analyzed: 03/31/15 06:49 Lab File ID: 033015hp37.044dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 1	3.17	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 2	3.24	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 3	3.35	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 4	3.38	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 5	3.59	Split Peak	thomash	03/31/15 13:09

Lab Sample ID: IC 490-237639/44 Client Sample ID:

Date Analyzed: 03/31/15 06:49 Lab File ID: 033015hp37.044dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 1	3.31	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:05
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:05

Lab Sample ID: ICIS 490-237639/45 Client Sample ID:

Date Analyzed: 03/31/15 07:04 Lab File ID: 033015hp37.045dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.57	Baseline Smoothing	thomash	03/31/15 12:59
PCB-1242 Peak 1	3.17	Split Peak	thomash	03/31/15 13:09
PCB-1242 Peak 2	3.24	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 3	3.35	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 4	3.38	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 5	3.59	Baseline Smoothing	thomash	03/31/15 13:06

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: ICIS 490-237639/45 Client Sample ID:

Date Analyzed: 03/31/15 07:04 Lab File ID: 033015hp37.045dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 1	3.31	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1268 Peak 2	7.39	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1268 Peak 3	7.73	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1268 Peak 4	8.12	Baseline Smoothing	thomash	03/31/15 13:06

Lab Sample ID: IC 490-237639/46 Client Sample ID:

Date Analyzed: 03/31/15 07:20 Lab File ID: 033015hp37.046dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.57	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 1	3.17	Split Peak	thomash	03/31/15 13:10
PCB-1242 Peak 2	3.24	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 3	3.35	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 4	3.38	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 5	3.59	Baseline Smoothing	thomash	03/31/15 13:06

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/46 Client Sample ID:

Date Analyzed: 03/31/15 07:20 Lab File ID: 033015hp37.046dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 1	3.32	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1268 Peak 2	7.40	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1268 Peak 3	7.74	Baseline Smoothing	thomash	03/31/15 13:06
PCB-1268 Peak 4	8.12	Baseline Smoothing	thomash	03/31/15 13:06

Lab Sample ID: IC 490-237639/47 Client Sample ID:

Date Analyzed: 03/31/15 07:35 Lab File ID: 033015hp37.047dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 1	3.17	Split Peak	thomash	03/31/15 13:10
PCB-1242 Peak 2	3.24	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 3	3.35	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 4	3.38	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 5	3.59	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 1	6.95	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 2	7.00	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 3	7.26	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 4	7.74	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 5	8.13	Baseline Smoothing	thomash	03/31/15 13:07

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237639

Lab Sample ID: IC 490-237639/47 Client Sample ID:

Date Analyzed: 03/31/15 07:35 Lab File ID: 033015hp37.047dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.31	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 2	3.42	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 3	3.51	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 4	3.56	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1242 Peak 5	3.80	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 1	6.51	Unspecified	thomash	03/31/15 13:24
PCB-1268 Peak 2	7.40	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 3	7.74	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 4	8.13	Baseline Smoothing	thomash	03/31/15 13:07
PCB-1268 Peak 5	8.93	Baseline Smoothing	thomash	03/31/15 13:07

Lab Sample ID: ICIS 490-237639/53 Client Sample ID:

Date Analyzed: 03/31/15 09:09 Lab File ID: 033015hp37.053dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.50	Incomplete Integration	thomash	03/31/15 12:36

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: IC 490-237912/3 Client Sample ID:

Date Analyzed: 03/31/15 16:21 Lab File ID: 033115hp37.003dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 17:45
Tetrachloro-m-xylene	2.06	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1260 Peak 3	5.66	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1260 Peak 4	6.13	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 17:45

Lab Sample ID: IC 490-237912/3 Client Sample ID:

Date Analyzed: 03/31/15 16:21 Lab File ID: 033115hp37.003dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 17:45
Tetrachloro-m-xylene	2.04	Baseline Smoothing	thomash	03/31/15 18:02
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 2	2.75	Split Peak	thomash	03/31/15 18:20
PCB-1016 Peak 3	2.95	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 17:45
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 17:45

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: IC 490-237912/4 Client Sample ID:

Date Analyzed: 03/31/15 16:36 Lab File ID: 033115hp37.004dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.57	Baseline Smoothing	thomash	03/31/15 17:44
Tetrachloro-m-xylene	2.06	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 3	5.66	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 4	6.13	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 17:44

Lab Sample ID: IC 490-237912/4 Client Sample ID:

Date Analyzed: 03/31/15 16:36 Lab File ID: 033115hp37.004dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 17:44
Tetrachloro-m-xylene	2.04	Baseline Smoothing	thomash	03/31/15 18:02
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 3	2.95	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 1	5.55	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 2	6.01	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 3	6.51	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 4	6.60	Baseline Smoothing	thomash	03/31/15 17:44
PCB-1260 Peak 5	6.84	Baseline Smoothing	thomash	03/31/15 17:44

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: IC 490-237912/5 Client Sample ID:

Date Analyzed: 03/31/15 16:52 Lab File ID: 033115hp37.005dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.57	Baseline Smoothing	thomash	03/31/15 17:42
Tetrachloro-m-xylene	2.06	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1260 Peak 3	5.66	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1260 Peak 4	6.13	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 17:42

Lab Sample ID: IC 490-237912/5 Client Sample ID:

Date Analyzed: 03/31/15 16:52 Lab File ID: 033115hp37.005dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 18:02
Tetrachloro-m-xylene	2.05	Baseline Smoothing	thomash	03/31/15 18:02
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 18:02
PCB-1016 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 3	2.95	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 17:42
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 17:42

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: IC 490-237912/6 Client Sample ID:

Date Analyzed: 03/31/15 17:08 Lab File ID: 033115hp37.006dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	thomash	03/31/15 17:40
Tetrachloro-m-xylene	2.06	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 3	5.66	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 4	6.12	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 17:40

Lab Sample ID: IC 490-237912/6 Client Sample ID:

Date Analyzed: 03/31/15 17:08 Lab File ID: 033115hp37.006dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 17:40
Tetrachloro-m-xylene	2.04	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 3	2.94	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 1	5.55	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 2	6.01	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 3	6.51	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 4	6.60	Baseline Smoothing	thomash	03/31/15 17:40
PCB-1260 Peak 5	6.84	Baseline Smoothing	thomash	03/31/15 17:40

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: ICRT 490-237912/7 Client Sample ID:

Date Analyzed: 03/31/15 17:23 Lab File ID: 033115hp37.007dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.57	Baseline Smoothing	thomash	03/31/15 17:39
Tetrachloro-m-xylene	2.06	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 3	5.66	Split Peak	thomash	03/31/15 17:39
PCB-1260 Peak 4	6.13	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 17:39

Lab Sample ID: ICRT 490-237912/7 Client Sample ID:

Date Analyzed: 03/31/15 17:23 Lab File ID: 033115hp37.007dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 17:39
Tetrachloro-m-xylene	2.05	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 2	2.75	Split Peak	thomash	03/31/15 17:39
PCB-1016 Peak 3	2.95	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 1	5.55	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 2	6.01	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 3	6.51	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 4	6.61	Baseline Smoothing	thomash	03/31/15 17:39
PCB-1260 Peak 5	6.85	Baseline Smoothing	thomash	03/31/15 17:39

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: IC 490-237912/8 Client Sample ID:

Date Analyzed: 03/31/15 17:39 Lab File ID: 033115hp37.008dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.57	Baseline Smoothing	thomash	03/31/15 17:55
Tetrachloro-m-xylene	2.06	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1260 Peak 3	5.66	Split Peak	thomash	03/31/15 17:55
PCB-1260 Peak 4	6.12	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 17:55

Lab Sample ID: IC 490-237912/8 Client Sample ID:

Date Analyzed: 03/31/15 17:39 Lab File ID: 033115hp37.008dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.51	Baseline Smoothing	thomash	03/31/15 18:18
Tetrachloro-m-xylene	2.05	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 2	2.75	Split Peak	thomash	03/31/15 17:55
PCB-1016 Peak 3	2.95	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 17:55
PCB-1260 Peak 1	5.55	Baseline Smoothing	thomash	03/31/15 18:26
PCB-1260 Peak 2	6.01	Baseline Smoothing	thomash	03/31/15 18:26
PCB-1260 Peak 3	6.51	Baseline Smoothing	thomash	03/31/15 18:26
PCB-1260 Peak 4	6.61	Baseline Smoothing	thomash	03/31/15 18:26
PCB-1260 Peak 5	6.85	Baseline Smoothing	thomash	03/31/15 18:26

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: IC 490-237912/9 Client Sample ID:

Date Analyzed: 03/31/15 17:54 Lab File ID: 033115hp37.009dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	4.97	Split Peak	thomash	03/31/15 18:25
PCB-1260 Peak 2	5.31	Split Peak	thomash	03/31/15 18:25
PCB-1260 Peak 3	5.66	Split Peak	thomash	03/31/15 18:25
PCB-1260 Peak 4	6.13	Split Peak	thomash	03/31/15 18:25
PCB-1260 Peak 5	6.53	Split Peak	thomash	03/31/15 18:25

Lab Sample ID: IC 490-237912/9 Client Sample ID:

Date Analyzed: 03/31/15 17:54 Lab File ID: 033115hp37.009dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.41	Split Peak	thomash	03/31/15 18:19
PCB-1016 Peak 2	2.75	Split Peak	thomash	03/31/15 18:19
PCB-1016 Peak 3	2.95	Split Peak	thomash	03/31/15 18:19
PCB-1016 Peak 4	2.98	Split Peak	thomash	03/31/15 18:19
PCB-1016 Peak 5	3.18	Split Peak	thomash	03/31/15 18:19

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 237912

Lab Sample ID: ICV 490-237912/10 Client Sample ID:

Date Analyzed: 03/31/15 18:10 Lab File ID: 033115hp37.010dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.32	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 2	2.62	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 3	2.78	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 4	2.81	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 5	3.05	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 1	4.97	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 2	5.31	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 3	5.66	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 4	6.13	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 5	6.53	Baseline Smoothing	thomash	03/31/15 18:32

Lab Sample ID: ICV 490-237912/10 Client Sample ID:

Date Analyzed: 03/31/15 18:10 Lab File ID: 033115hp37.010dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.41	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 2	2.75	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 3	2.95	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 4	2.98	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1016 Peak 5	3.18	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 1	5.55	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 2	6.01	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 3	6.51	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 4	6.60	Baseline Smoothing	thomash	03/31/15 18:32
PCB-1260 Peak 5	6.84	Baseline Smoothing	thomash	03/31/15 18:32

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241134

Lab Sample ID: CCVRT 490-241134/2 Client Sample ID:

Date Analyzed: 04/14/15 12:15 Lab File ID: 041415hp37.002dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	4.95	Split Peak	harrisma	04/14/15 13:01
PCB-1260 Peak 2	5.29	Split Peak	harrisma	04/14/15 13:01
PCB-1260 Peak 3	5.64	Split Peak	harrisma	04/14/15 13:01
PCB-1260 Peak 4	6.10	Split Peak	harrisma	04/14/15 13:01
PCB-1260 Peak 5	6.50	Split Peak	harrisma	04/14/15 13:01

Lab Sample ID: CCVRT 490-241134/2 Client Sample ID:

Date Analyzed: 04/14/15 12:15 Lab File ID: 041415hp37.002dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.40	Split Peak	harrisma	04/14/15 13:01
PCB-1016 Peak 2	2.74	Split Peak	harrisma	04/14/15 13:01
PCB-1016 Peak 3	2.94	Split Peak	harrisma	04/14/15 13:01
PCB-1016 Peak 4	2.97	Split Peak	harrisma	04/14/15 13:01
PCB-1016 Peak 5	3.17	Split Peak	harrisma	04/14/15 13:01

Lab Sample ID: CCV 490-241134/4 Client Sample ID:

Date Analyzed: 04/14/15 12:46 Lab File ID: 041415hp37.004dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1232 Peak 1	2.31	Baseline Smoothing	harrisma	04/14/15 13:05
PCB-1232 Peak 2	2.60	Baseline Smoothing	harrisma	04/14/15 13:05
PCB-1232 Peak 3	3.01	Baseline Smoothing	harrisma	04/14/15 13:05
PCB-1232 Peak 4	3.03	Baseline Smoothing	harrisma	04/14/15 13:05
PCB-1232 Peak 5	3.16	Baseline Smoothing	harrisma	04/14/15 13:05

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241134

Lab Sample ID: CCV 490-241134/5 Client Sample ID:

Date Analyzed: 04/14/15 13:02 Lab File ID: 041415hp37.005dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.16	Split Peak	harrisma	04/14/15 13:22
PCB-1242 Peak 2	3.22	Split Peak	harrisma	04/14/15 13:22
PCB-1242 Peak 3	3.34	Split Peak	harrisma	04/14/15 13:22
PCB-1242 Peak 4	3.36	Split Peak	harrisma	04/14/15 13:22
PCB-1242 Peak 5	3.57	Split Peak	harrisma	04/14/15 13:22

Lab Sample ID: LCS 490-239550/2-A Client Sample ID:

Date Analyzed: 04/14/15 14:04 Lab File ID: 041415hp37.009dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	4.95	Split Peak	thomash	04/14/15 14:37
PCB-1260 Peak 2	5.29	Split Peak	thomash	04/14/15 14:37
PCB-1260 Peak 3	5.64	Split Peak	thomash	04/14/15 14:37
PCB-1260 Peak 4	6.10	Split Peak	thomash	04/14/15 14:37
PCB-1260 Peak 5	6.50	Split Peak	thomash	04/14/15 14:37

Lab Sample ID: LCS 490-239550/2-A Client Sample ID:

Date Analyzed: 04/14/15 14:04 Lab File ID: 041415hp37.009dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.40	Split Peak	thomash	04/14/15 14:37
PCB-1016 Peak 2	2.74	Split Peak	thomash	04/14/15 14:37
PCB-1016 Peak 3	2.94	Split Peak	thomash	04/14/15 14:37
PCB-1016 Peak 4	2.97	Split Peak	thomash	04/14/15 14:37
PCB-1016 Peak 5	3.17	Split Peak	thomash	04/14/15 14:37

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241134

Lab Sample ID: LCS 490-239249/2-A Client Sample ID:

Date Analyzed: 04/14/15 22:55 Lab File ID: 041415hp37.043dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	4.95	Split Peak	thomash	04/15/15 09:17
PCB-1260 Peak 2	5.29	Split Peak	thomash	04/15/15 09:17
PCB-1260 Peak 3	5.64	Split Peak	thomash	04/15/15 09:17
PCB-1260 Peak 4	6.10	Split Peak	thomash	04/15/15 09:17
PCB-1260 Peak 5	6.50	Split Peak	thomash	04/15/15 09:17

Lab Sample ID: LCS 490-239249/2-A Client Sample ID:

Date Analyzed: 04/14/15 22:55 Lab File ID: 041415hp37.043dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.40	Split Peak	thomash	04/15/15 09:17
PCB-1016 Peak 2	2.74	Split Peak	thomash	04/15/15 09:17
PCB-1016 Peak 3	2.94	Split Peak	thomash	04/15/15 09:17
PCB-1016 Peak 4	2.97	Split Peak	thomash	04/15/15 09:17
PCB-1016 Peak 5	3.17	Split Peak	thomash	04/15/15 09:17

Lab Sample ID: 490-75933-10 Client Sample ID: SPRW-701-GW-040315

Date Analyzed: 04/15/15 03:04 Lab File ID: 041415hp37.059dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1248 Peak 3	4.03	Split Peak	thomash	04/15/15 11:27

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241134

Lab Sample ID: CCV 490-241134/78 Client Sample ID:

Date Analyzed: 04/15/15 11:51 Lab File ID: 041415hp37.078dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.16	Split Peak	harrisma	04/15/15 12:07
PCB-1242 Peak 2	3.22	Split Peak	harrisma	04/15/15 12:07
PCB-1242 Peak 3	3.34	Split Peak	harrisma	04/15/15 12:07
PCB-1242 Peak 4	3.37	Split Peak	harrisma	04/15/15 12:07
PCB-1242 Peak 5	3.58	Split Peak	harrisma	04/15/15 12:07

SAMPLE SUMMARY

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
490-75933-1	BRMW-11-GW-HS-040215	Water	04/02/2015 1655	04/04/2015 0815
490-75933-2	BRMW-11-GW-HS-040215-FD	Water	04/02/2015 1700	04/04/2015 0815
490-75933-3	BRMW-10-GW-HS-040215	Water	04/02/2015 1705	04/04/2015 0815
490-75933-4	BRMW-05-GW-HS-040215	Water	04/02/2015 1710	04/04/2015 0815
490-75933-5	BRMW-05A-GW-HS-040215	Water	04/02/2015 1715	04/04/2015 0815
490-75933-6	BRMW-04-GW-HS-040215	Water	04/02/2015 1725	04/04/2015 0815
490-75933-7	BRMW-04A-GW-HS-040215	Water	04/02/2015 1730	04/04/2015 0815
490-75933-8	BRMW-01-GW-HS-040215	Water	04/02/2015 1740	04/04/2015 0815
490-75933-9TB	TB-03-040215	Water	04/02/2015 1800	04/04/2015 0815
490-75933-10	SPRW-701-GW-040315	Water	04/03/2015 0950	04/04/2015 0815
490-75933-11	SPRW-702-GW-040315	Water	04/03/2015 0950	04/04/2015 0815
490-75933-11MS	SPRW-702-GW-040315	Water	04/03/2015 0950	04/04/2015 0815
490-75933-11MSD	SPRW-702-GW-040315	Water	04/03/2015 0950	04/04/2015 0815
490-75933-12	SPRW-702-GW-040315-FD	Water	04/03/2015 1050	04/04/2015 0815
490-75933-13	SPRW-302-GW-HS-040315	Water	04/03/2015 1300	04/04/2015 0815
490-75933-14	SPRW-301-GW-HS-040315	Water	04/03/2015 1330	04/04/2015 0815
490-75933-15	SPMW-4A-GW-HS-040315	Water	04/03/2015 1425	04/04/2015 0815
490-75933-16	SPMW-4-GW-HS-040315	Water	04/03/2015 1430	04/04/2015 0815
490-75933-17	SHMW-10-GW-HS-040315	Water	04/03/2015 1455	04/04/2015 0815
490-75933-18	SPMW-14A-GW-HS-040315	Water	04/03/2015 1540	04/04/2015 0815
490-75933-19	SPMW-2-GW-HS-040315	Water	04/03/2015 1600	04/04/2015 0815
490-75933-20	SDMW-1-GW-HS-040315	Water	04/03/2015 1630	04/04/2015 0815
490-75933-21	SFMW-6-GW-HS-040315	Water	04/03/2015 1650	04/04/2015 0815
490-75933-22	SPMW-11-GW-HS-040315	Water	04/03/2015 1705	04/04/2015 0815
490-75933-23	SPRW-303A-GW-HS-040315	Water	04/03/2015 1150	04/04/2015 0815
490-75933-24	SPRW-303A-GW-HS-040315-FD	Water	04/03/2015 1155	04/04/2015 0815

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-75933-1	**BRMW-11-GW-HS-040215**					
cis-1,2-Dichloroethene		32.9		1.00	ug/L	8260B
Tetrachloroethene		1840		20.0	ug/L	8260B
Trichloroethene		2480		20.0	ug/L	8260B
490-75933-2	**BRMW-11-GW-HS-040215-FD**					
cis-1,2-Dichloroethene		33.0		1.00	ug/L	8260B
Tetrachloroethene		1670		20.0	ug/L	8260B
Trichloroethene		2380		20.0	ug/L	8260B
490-75933-3	**BRMW-10-GW-HS-040215**					
Tetrachloroethene		0.345	J	1.00	ug/L	8260B
490-75933-4	**BRMW-05-GW-HS-040215**					
Tetrachloroethene		0.183	J	1.00	ug/L	8260B
490-75933-6	**BRMW-04-GW-HS-040215**					
Tetrachloroethene		27.4		1.00	ug/L	8260B
Trichloroethene		0.575	J	1.00	ug/L	8260B
490-75933-7	**BRMW-04A-GW-HS-040215**					
Tetrachloroethene		11.0		1.00	ug/L	8260B
Trichloroethene		2.32		1.00	ug/L	8260B
490-75933-10	**SPRW-701-GW-040315**					
cis-1,2-Dichloroethene		1.88		1.00	ug/L	8260B
Tetrachloroethene		289		5.00	ug/L	8260B
Trichloroethene		10.1		1.00	ug/L	8260B
PCB-1248		3.04		0.467	ug/L	8082A
490-75933-11	**SPRW-702-GW-040315**					
cis-1,2-Dichloroethene		11.3		1.00	ug/L	8260B
1,1-Dichloroethene		0.351	J	1.00	ug/L	8260B
Tetrachloroethene		262		5.00	ug/L	8260B
Trichloroethene		29.2		1.00	ug/L	8260B
Vinyl chloride		0.308	J	1.00	ug/L	8260B
PCB-1248		11.5		2.39	ug/L	8082A

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-75933-12	**SPRW-702-GW-040315-FD**					
cis-1,2-Dichloroethene		11.4		1.00	ug/L	8260B
1,1-Dichloroethene		0.333	J	1.00	ug/L	8260B
Tetrachloroethene		255		5.00	ug/L	8260B
Trichloroethene		28.2		1.00	ug/L	8260B
Vinyl chloride		0.308	J	1.00	ug/L	8260B
PCB-1248		10.8		2.35	ug/L	8082A
490-75933-13	**SPRW-302-GW-HS-040315**					
cis-1,2-Dichloroethene		142		1.00	ug/L	8260B
1,1-Dichloroethene		1.59		1.00	ug/L	8260B
Tetrachloroethene		24.1		1.00	ug/L	8260B
trans-1,2-Dichloroethene		0.397	J	1.00	ug/L	8260B
Trichloroethene		199		5.00	ug/L	8260B
490-75933-14	**SPRW-301-GW-HS-040315**					
cis-1,2-Dichloroethene		66.9		1.00	ug/L	8260B
1,1-Dichloroethene		1.76		1.00	ug/L	8260B
Tetrachloroethene		11.1		1.00	ug/L	8260B
trans-1,2-Dichloroethene		0.291	J	1.00	ug/L	8260B
Trichloroethene		158		1.00	ug/L	8260B
Vinyl chloride		18.9		1.00	ug/L	8260B
490-75933-15	**SPMW-4A-GW-HS-040315**					
cis-1,2-Dichloroethene		39.2		1.00	ug/L	8260B
Tetrachloroethene		4.14		1.00	ug/L	8260B
trans-1,2-Dichloroethene		0.279	J	1.00	ug/L	8260B
Trichloroethene		32.0		1.00	ug/L	8260B
490-75933-16	**SPMW-4-GW-HS-040315**					
cis-1,2-Dichloroethene		0.320	J	1.00	ug/L	8260B
490-75933-17	**SHMW-10-GW-HS-040315**					
cis-1,2-Dichloroethene		0.820	J	1.00	ug/L	8260B
Tetrachloroethene		58.7		1.00	ug/L	8260B
Trichloroethene		34.4		1.00	ug/L	8260B

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-75933-19	**SPMW-2-GW-HS-040315**					
cis-1,2-Dichloroethene		0.652	J	1.00	ug/L	8260B
Tetrachloroethene		6.32		1.00	ug/L	8260B
Trichloroethene		10.2		1.00	ug/L	8260B
490-75933-20	**SDMW-1-GW-HS-040315**					
Tetrachloroethene		5.95		1.00	ug/L	8260B
Trichloroethene		6.10		1.00	ug/L	8260B
490-75933-21	**SFMW-6-GW-HS-040315**					
cis-1,2-Dichloroethene		2.53		1.00	ug/L	8260B
Tetrachloroethene		2.29		1.00	ug/L	8260B
Trichloroethene		1.03		1.00	ug/L	8260B
490-75933-22	**SPMW-11-GW-HS-040315**					
cis-1,2-Dichloroethene		1.10		1.00	ug/L	8260B
Tetrachloroethene		70.4		1.00	ug/L	8260B
Trichloroethene		122		1.00	ug/L	8260B
490-75933-23	**SPRW-303A-GW-HS-040315**					
cis-1,2-Dichloroethene		96.3		1.00	ug/L	8260B
1,1-Dichloroethene		3.55		1.00	ug/L	8260B
Tetrachloroethene		30.9		1.00	ug/L	8260B
trans-1,2-Dichloroethene		0.397	J	1.00	ug/L	8260B
Trichloroethene		431		5.00	ug/L	8260B
490-75933-24	**SPRW-303A-GW-HS-040315-FD**					
cis-1,2-Dichloroethene		95.1		1.00	ug/L	8260B
1,1-Dichloroethene		3.46		1.00	ug/L	8260B
Tetrachloroethene		32.8		1.00	ug/L	8260B
trans-1,2-Dichloroethene		0.382	J	1.00	ug/L	8260B
Trichloroethene		416		5.00	ug/L	8260B

METHOD SUMMARY

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL NSH	SW846 8260B	
Purge and Trap	TAL NSH		SW846 5030B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL NSH	SW846 8082A	
Liquid-Liquid Extraction (Separatory Funnel)	TAL NSH		SW846 3510C

Lab References:

TAL NSH = TestAmerica Nashville

Method References:

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

METHOD / ANALYST SUMMARY

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Method	Analyst	Analyst ID
SW846 8260B	Khanphomee, Anukool 1	AK1
SW846 8260B	Larsen, Eric	EML
SW846 8082A	Harris, Matt	MGH

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **BRMW-11-GW-HS-040215**

Lab Sample ID: 490-75933-1 Date Sampled: 04/02/2015 1655
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240523	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-51.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 0800			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 0800				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	32.9		0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	92		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **BRMW-11-GW-HS-040215**

Lab Sample ID: 490-75933-1 Date Sampled: 04/02/2015 1655
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-241067	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041415-18.D
Dilution:	20			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 1819	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 1819				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Tetrachloroethene	1840		2.80	20.0
Trichloroethene	2480		4.00	20.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
Toluene-d8 (Surr)	106		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **BRMW-11-GW-HS-040215-FD**

Lab Sample ID: 490-75933-2 Date Sampled: 04/02/2015 1700
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240523	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-52.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 0826			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 0826				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	33.0		0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	91		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **BRMW-11-GW-HS-040215-FD**

Lab Sample ID: 490-75933-2 Date Sampled: 04/02/2015 1700
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-241067	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041415-17.D
Dilution:	20			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 1753	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 1753				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Tetrachloroethene	1670		2.80	20.0
Trichloroethene	2380		4.00	20.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **BRMW-10-GW-HS-040215**

Lab Sample ID: 490-75933-3 Date Sampled: 04/02/2015 1705
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-241067	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041415-08.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 1354			Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 1354				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	0.345	J	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **BRMW-05-GW-HS-040215**

Lab Sample ID: 490-75933-4 Date Sampled: 04/02/2015 1710
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-241067	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041415-09.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 1421			Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 1421				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	0.183	J	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **BRMW-05A-GW-HS-040215**

Lab Sample ID: 490-75933-5 Date Sampled: 04/02/2015 1715
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-241067	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041415-10.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 1447			Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 1447				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **BRMW-04-GW-HS-040215**

Lab Sample ID: 490-75933-6 Date Sampled: 04/02/2015 1725
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240523	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-56.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 1011			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 1011				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	27.4		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	0.575	J	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **BRMW-04A-GW-HS-040215**

Lab Sample ID: 490-75933-7 Date Sampled: 04/02/2015 1730
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240526	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-71.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 1647			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 1647				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	11.0		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	2.32		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **BRMW-01-GW-HS-040215**

Lab Sample ID: 490-75933-8 Date Sampled: 04/02/2015 1740
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240526	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-72.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 1714			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 1714				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **TB-03-040215**

Lab Sample ID: 490-75933-9TB Date Sampled: 04/02/2015 1800
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240523	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-38.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 0217			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 0217				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPRW-701-GW-040315**

Lab Sample ID: 490-75933-10 Date Sampled: 04/03/2015 0950
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240526	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-73.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 1741			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 1741				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.88		0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	10.1		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPRW-701-GW-040315**

Lab Sample ID: 490-75933-10 Date Sampled: 04/03/2015 0950
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-241067	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041415-11.D
Dilution:	5.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 1514	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 1514				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Tetrachloroethene	289		0.700	5.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPRW-702-GW-040315**

Lab Sample ID: 490-75933-11 Date Sampled: 04/03/2015 0950
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240523	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-39.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 0244			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 0244				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	11.3		0.210	1.00
1,1-Dichloroethene	0.351	J	0.250	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	29.2		0.200	1.00
Vinyl chloride	0.308	J	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPRW-702-GW-040315**

Lab Sample ID: 490-75933-11 Date Sampled: 04/03/2015 0950
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-241067	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041415-12.D
Dilution:	5.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 1541	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 1541				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Tetrachloroethene	262		0.700	5.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPRW-702-GW-040315-FD**

Lab Sample ID: 490-75933-12 Date Sampled: 04/03/2015 1050
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240526	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-74.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 1807			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 1807				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	11.4		0.210	1.00
1,1-Dichloroethene	0.333	J	0.250	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	28.2		0.200	1.00
Vinyl chloride	0.308	J	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPRW-702-GW-040315-FD**

Lab Sample ID: 490-75933-12 Date Sampled: 04/03/2015 1050
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-241067	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041415-13.D
Dilution:	5.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 1607	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 1607				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Tetrachloroethene	255		0.700	5.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPRW-302-GW-HS-040315**

Lab Sample ID: 490-75933-13 Date Sampled: 04/03/2015 1300
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240526	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-75.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 1834			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 1834				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	142		0.210	1.00
1,1-Dichloroethene	1.59		0.250	1.00
Tetrachloroethene	24.1		0.140	1.00
trans-1,2-Dichloroethene	0.397	J	0.230	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPRW-302-GW-HS-040315**

Lab Sample ID: 490-75933-13 Date Sampled: 04/03/2015 1300
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-241067	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041415-14.D
Dilution:	5.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 1634	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 1634				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	199		1.00	5.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPRW-301-GW-HS-040315**

Lab Sample ID: 490-75933-14 Date Sampled: 04/03/2015 1330
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240526	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-76.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 1900			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 1900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	66.9		0.210	1.00
1,1-Dichloroethene	1.76		0.250	1.00
Tetrachloroethene	11.1		0.140	1.00
trans-1,2-Dichloroethene	0.291	J	0.230	1.00
Trichloroethene	158		0.200	1.00
Vinyl chloride	18.9		0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPMW-4A-GW-HS-040315**

Lab Sample ID: 490-75933-15 Date Sampled: 04/03/2015 1425
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240526	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-77.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 1927			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 1927				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	39.2		0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	4.14		0.140	1.00
trans-1,2-Dichloroethene	0.279	J	0.230	1.00
Trichloroethene	32.0		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPMW-4-GW-HS-040315**

Lab Sample ID: 490-75933-16 Date Sampled: 04/03/2015 1430
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240526	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-78.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 1953			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 1953				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	0.320	J	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SHMW-10-GW-HS-040315**

Lab Sample ID: 490-75933-17 Date Sampled: 04/03/2015 1455
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240526	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-79.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 2020			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 2020				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	0.820	J	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	58.7		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	34.4		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPMW-14A-GW-HS-040315**

Lab Sample ID: 490-75933-18 Date Sampled: 04/03/2015 1540
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240526	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-80.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 2046			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 2046				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPMW-2-GW-HS-040315**

Lab Sample ID: 490-75933-19 Date Sampled: 04/03/2015 1600
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240526	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-81.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 2113			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 2113				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	0.652	J	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	6.32		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	10.2		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SDMW-1-GW-HS-040315**

Lab Sample ID: 490-75933-20 Date Sampled: 04/03/2015 1630
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240526	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-82.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 2139			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 2139				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	5.95		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	6.10		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SFMW-6-GW-HS-040315**

Lab Sample ID: 490-75933-21 Date Sampled: 04/03/2015 1650
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240526	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041015-83.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 2205			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 2205				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	2.53		0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	2.29		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.03		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPMW-11-GW-HS-040315**

Lab Sample ID: 490-75933-22 Date Sampled: 04/03/2015 1705
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240821	Instrument ID:	HP25
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-08.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 1334			Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 1334				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.10		0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	70.4		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	122		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPRW-303A-GW-HS-040315**

Lab Sample ID: 490-75933-23 Date Sampled: 04/03/2015 1150
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240821	Instrument ID:	HP25
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-09.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 1403			Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 1403				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	96.3		0.210	1.00
1,1-Dichloroethene	3.55		0.250	1.00
Tetrachloroethene	30.9		0.140	1.00
trans-1,2-Dichloroethene	0.397	J	0.230	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPRW-303A-GW-HS-040315**

Lab Sample ID: 490-75933-23 Date Sampled: 04/03/2015 1150
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-241067	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041415-15.D
Dilution:	5.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 1700	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 1700				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	431		1.00	5.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPRW-303A-GW-HS-040315-FD**

Lab Sample ID: 490-75933-24 Date Sampled: 04/03/2015 1155
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-240821	Instrument ID:	HP25
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041315-10.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 1431			Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 1431				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	95.1		0.210	1.00
1,1-Dichloroethene	3.46		0.250	1.00
Tetrachloroethene	32.8		0.140	1.00
trans-1,2-Dichloroethene	0.382	J	0.230	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPRW-303A-GW-HS-040315-FD**

Lab Sample ID: 490-75933-24 Date Sampled: 04/03/2015 1155
Client Matrix: Water Date Received: 04/04/2015 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-241067	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	041415-16.D
Dilution:	5.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 1727	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 1727				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	416		1.00	5.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPRW-701-GW-040315**

Lab Sample ID: 490-75933-10 Date Sampled: 04/03/2015 0950
Client Matrix: Water Date Received: 04/04/2015 0815

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-241134	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-239249	Initial Weight/Volume:	1070 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	04/15/2015 0304			Injection Volume:	1 uL
Prep Date:	04/06/2015 1334			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	0.467	U	0.0598	0.467
PCB-1248	3.04		0.0645	0.467
PCB-1254	0.467	U	0.00654	0.467

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	59		10 - 150
Tetrachloro-m-xylene	70		10 - 150

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPRW-702-GW-040315**

Lab Sample ID: 490-75933-11 Date Sampled: 04/03/2015 0950
Client Matrix: Water Date Received: 04/04/2015 0815

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-241134	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-239550	Initial Weight/Volume:	1045 mL
Dilution:	5.0			Final Weight/Volume:	5 mL
Analysis Date:	04/15/2015 0525			Injection Volume:	1 uL
Prep Date:	04/07/2015 1433			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	2.39	U	0.306	2.39
PCB-1248	11.5		0.330	2.39
PCB-1254	2.39	U	0.0335	2.39

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	52		10 - 150
Tetrachloro-m-xylene	70		10 - 150

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPRW-702-GW-040315-FD**

Lab Sample ID: 490-75933-12 Date Sampled: 04/03/2015 1050
Client Matrix: Water Date Received: 04/04/2015 0815

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-241134	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-239550	Initial Weight/Volume:	1065 mL
Dilution:	5.0			Final Weight/Volume:	5 mL
Analysis Date:	04/15/2015 0541			Injection Volume:	1 uL
Prep Date:	04/07/2015 1433			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	2.35	U	0.300	2.35
PCB-1248	10.8		0.324	2.35
PCB-1254	2.35	U	0.0329	2.35

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	50		10 - 150
Tetrachloro-m-xylene	65		10 - 150

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Client Sample ID: **SPMW-14A-GW-HS-040315**

Lab Sample ID: 490-75933-18 Date Sampled: 04/03/2015 1540
Client Matrix: Water Date Received: 04/04/2015 0815

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-241134	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-239550	Initial Weight/Volume:	1065 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	04/14/2015 1522			Injection Volume:	1 uL
Prep Date:	04/07/2015 1433			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	0.469	U	0.0601	0.469
PCB-1248	0.469	U	0.0648	0.469
PCB-1254	0.469	U	0.00657	0.469

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	59		10 - 150
Tetrachloro-m-xylene	80		10 - 150

Client: CH2M Hill, Inc.

Job Number: 490-75933-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
490-75933-1	BRMW-11-GW-HS-040215	92	97	102	104
490-75933-1 DL	BRMW-11-GW-HS-040215 DL	94	91	106	98
490-75933-2	BRMW-11-GW-HS-040215-FD	91	96	101	101
490-75933-2 DL	BRMW-11-GW-HS-040215-FD DL	95	93	105	98
490-75933-3	BRMW-10-GW-HS-040215	95	94	102	99
490-75933-4	BRMW-05-GW-HS-040215	96	94	105	98
490-75933-5	BRMW-05A-GW-HS-040215	97	96	103	97
490-75933-6	BRMW-04-GW-HS-040215	95	98	103	103
490-75933-7	BRMW-04A-GW-HS-040215	96	100	102	104
490-75933-8	BRMW-01-GW-HS-040215	97	102	102	103
490-75933-9	TB-03-040215	94	99	98	106
490-75933-10	SPRW-701-GW-040315	95	99	102	107
490-75933-10 DL	SPRW-701-GW-040315 DL	98	97	104	97
490-75933-11	SPRW-702-GW-040315	95	100	98	104
490-75933-11 DL	SPRW-702-GW-040315 DL	96	94	103	95
490-75933-12	SPRW-702-GW-040315-FD	94	99	103	100
490-75933-12 DL	SPRW-702-GW-040315-FD DL	97	95	103	95
490-75933-13	SPRW-302-GW-HS-040315	95	100	102	105
490-75933-13 DL	SPRW-302-GW-HS-040315 DL	97	96	104	97

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Client: CH2M Hill, Inc.

Job Number: 490-75933-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
490-75933-14	SPRW-301-GW-HS-040315	93	101	103	104
490-75933-15	SPMW-4A-GW-HS-040315	97	103	100	103
490-75933-16	SPMW-4-GW-HS-040315	96	101	102	103
490-75933-17	SHMW-10-GW-HS-040315	94	100	101	101
490-75933-18	SPMW-14A-GW-HS-040315	96	99	103	103
490-75933-19	SPMW-2-GW-HS-040315	96	101	102	103
490-75933-20	SDMW-1-GW-HS-040315	96	99	104	106
490-75933-21	SFMW-6-GW-HS-040315	95	99	100	103
490-75933-22	SPMW-11-GW-HS-040315	98	108	104	98
490-75933-23	SPRW-303A-GW-HS-040315	96	108	103	96
490-75933-23 DL	SPRW-303A-GW-HS-040315 DL	97	95	105	97
490-75933-24	SPRW-303A-GW-HS-040315-FD	106	108	103	96
490-75933-24 DL	SPRW-303A-GW-HS-040315-FD DL	96	95	104	97
MB 490-240523/6		96	103	98	103
MB 490-240526/6		96	101	102	104
MB 490-240821/7		106	106	101	99
MB 490-241067/7		95	95	104	98
LCS 490-240523/3		93	97	99	111
LCS 490-240526/3		91	96	99	107
LCS 490-240821/3		99	98	104	101
LCS 490-241067/3		95	90	98	100
LCSD 490-240821/4		99	99	101	98

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
LCSD 490-241067/4		95	95	99	101
490-75933-11 MS	SPRW-702-GW-0403 15 MS	92	95	99	107
490-75933-22 MS	SPMW-11-GW-HS-04 0315 MS	90	99	101	97
490-75933-11 MSD	SPRW-702-GW-0403 15 MSD	93	96	100	107
490-75933-22 MSD	SPMW-11-GW-HS-04 0315 MSD	99	99	103	97

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Surrogate Recovery Report

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCX2 %Rec	TCX1 %Rec	DCB1 %Rec	DCB2 %Rec
490-75933-10	SPRW-701-GW-040315		70	59	
490-75933-11	SPRW-702-GW-040315		70	52	
490-75933-12	SPRW-702-GW-040315-FD		65	50	
490-75933-18	SPMW-14A-GW-HS-040315	80			59
MB 490-239249/1-A			80		66
MB 490-239550/1-A		89			69
LCS 490-239249/2-A			78		64
LCS 490-239550/2-A		78			66

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	10-150
DCB = DCB Decachlorobiphenyl (Surr)	10-150

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Method Blank - Batch: 490-240523

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-240523/6	Analysis Batch:	490-240523	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041015-37.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 0151	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 0151				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
Dibromofluoromethane (Surr)	96	70 - 130
1,2-Dichloroethane-d4 (Surr)	103	70 - 130
Toluene-d8 (Surr)	98	70 - 130

Lab Control Sample - Batch: 490-240523

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 490-240523/3	Analysis Batch:	490-240523	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041015-34.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 0032	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 0032				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
cis-1,2-Dichloroethene	50.0	48.85	98	76 - 125	
1,1-Dichloroethene	50.0	47.38	95	79 - 124	
Tetrachloroethene	50.0	42.46	85	80 - 126	
trans-1,2-Dichloroethene	50.0	50.82	102	79 - 126	
Trichloroethene	50.0	43.07	86	80 - 123	
Vinyl chloride	62.5	64.22	103	68 - 120	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
Dibromofluoromethane (Surr)	93	70 - 130
1,2-Dichloroethane-d4 (Surr)	97	70 - 130
Toluene-d8 (Surr)	99	70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-240523

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-75933-11	Analysis Batch:	490-240523	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041015-57.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 1037			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 1037				10 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-75933-11	Analysis Batch:	490-240523	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041015-58.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 1104			Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 1104				10 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
cis-1,2-Dichloroethene	102	103	68 - 138	1	17		
1,1-Dichloroethene	104	108	70 - 142	3	17		
Tetrachloroethene	45	67	72 - 145	4	16	E *	E *
trans-1,2-Dichloroethene	112	113	66 - 143	1	16		
Trichloroethene	85	87	73 - 144	2	17		
Vinyl chloride	114	116	56 - 129	2	17		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	107	107	70 - 130
Dibromofluoromethane (Surr)	92	93	70 - 130
1,2-Dichloroethane-d4 (Surr)	95	96	70 - 130
Toluene-d8 (Surr)	99	100	70 - 130

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-240523

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-75933-11	Units:	ug/L	MSD Lab Sample ID:	490-75933-11
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/11/2015 1037			Analysis Date:	04/11/2015 1104
Prep Date:	04/11/2015 1037			Prep Date:	04/11/2015 1104
Leach Date:	N/A			Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS		MSD	
Analyte	Result/Qual		Amount	Amount	Result/Qual		Result/Qual	
cis-1,2-Dichloroethene	11.3		50.0	50.0	62.28		62.86	
1,1-Dichloroethene	0.351	J	50.0	50.0	52.39		54.17	
Tetrachloroethene	262		50.0	50.0	284.3	E *	295.6	E *
trans-1,2-Dichloroethene	1.00	U	50.0	50.0	56.19		56.70	
Trichloroethene	29.2		50.0	50.0	71.42		72.83	
Vinyl chloride	0.308	J	62.5	62.5	71.55		72.74	

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Method Blank - Batch: 490-240526

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-240526/6	Analysis Batch:	490-240526	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041015-64.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 1342	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 1342				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
Dibromofluoromethane (Surr)	96	70 - 130
1,2-Dichloroethane-d4 (Surr)	101	70 - 130
Toluene-d8 (Surr)	102	70 - 130

Lab Control Sample - Batch: 490-240526

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 490-240526/3	Analysis Batch:	490-240526	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041015-61.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/11/2015 1223	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/11/2015 1223				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
cis-1,2-Dichloroethene	50.0	50.14	100	76 - 125	
1,1-Dichloroethene	50.0	49.70	99	79 - 124	
Tetrachloroethene	50.0	42.45	85	80 - 126	
trans-1,2-Dichloroethene	50.0	54.25	109	79 - 126	
Trichloroethene	50.0	43.42	87	80 - 123	
Vinyl chloride	62.5	72.94	117	68 - 120	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
Dibromofluoromethane (Surr)	91	70 - 130
1,2-Dichloroethane-d4 (Surr)	96	70 - 130
Toluene-d8 (Surr)	99	70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Method Blank - Batch: 490-240821

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-240821/7	Analysis Batch:	490-240821	Instrument ID:	HP25
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 1306	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 1306				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
Dibromofluoromethane (Surr)	106	70 - 130
1,2-Dichloroethane-d4 (Surr)	106	70 - 130
Toluene-d8 (Surr)	101	70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-240821

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-240821/3	Analysis Batch:	490-240821	Instrument ID:	HP25
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 1112	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 1112				10 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-240821/4	Analysis Batch:	490-240821	Instrument ID:	HP25
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 1141	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 1141				10 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
cis-1,2-Dichloroethene	89	89	76 - 125	0	17		
1,1-Dichloroethene	89	89	79 - 124	0	17		
Tetrachloroethene	109	105	80 - 126	4	16		
trans-1,2-Dichloroethene	86	86	79 - 126	0	16		
Trichloroethene	108	107	80 - 123	1	17		
Vinyl chloride	102	100	68 - 120	2	17		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	101	98	70 - 130
Dibromofluoromethane (Surr)	99	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	98	99	70 - 130
Toluene-d8 (Surr)	104	101	70 - 130

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-240821

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-240821/3	Units:	ug/L	LCSD Lab Sample ID:	LCSD 490-240821/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/13/2015 1112			Analysis Date:	04/13/2015 1141
Prep Date:	04/13/2015 1112			Prep Date:	04/13/2015 1141
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
cis-1,2-Dichloroethene	50.0	50.0	44.52	44.72
1,1-Dichloroethene	50.0	50.0	44.33	44.28
Tetrachloroethene	50.0	50.0	54.33	52.32
trans-1,2-Dichloroethene	50.0	50.0	43.06	43.01
Trichloroethene	50.0	50.0	53.86	53.26
Vinyl chloride	62.5	62.5	63.99	62.74

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-240821

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-75933-22	Analysis Batch:	490-240821	Instrument ID:	HP25
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-24.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 2110			Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 2110				10 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-75933-22	Analysis Batch:	490-240821	Instrument ID:	HP25
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041315-25.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/13/2015 2139			Final Weight/Volume:	10 mL
Prep Date:	04/13/2015 2139				10 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
cis-1,2-Dichloroethene	91	91	68 - 138	1	17		
1,1-Dichloroethene	93	96	70 - 142	3	17		
Tetrachloroethene	103	114	72 - 145	4	16		
trans-1,2-Dichloroethene	89	91	66 - 143	2	16		
Trichloroethene	100	112	73 - 144	3	17		
Vinyl chloride	97	102	56 - 129	4	17		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	97	97	70 - 130
Dibromofluoromethane (Surr)	90	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	99	99	70 - 130
Toluene-d8 (Surr)	101	103	70 - 130

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-240821

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-75933-22	Units:	ug/L	MSD Lab Sample ID:	490-75933-22
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/13/2015 2110			Analysis Date:	04/13/2015 2139
Prep Date:	04/13/2015 2110			Prep Date:	04/13/2015 2139
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
cis-1,2-Dichloroethene	1.10		50.0	50.0	46.48	46.84
1,1-Dichloroethene	1.00	U	50.0	50.0	46.25	47.79
Tetrachloroethene	70.4		50.0	50.0	122.1	127.6
trans-1,2-Dichloroethene	1.00	U	50.0	50.0	44.63	45.60
Trichloroethene	122		50.0	50.0	172.0	178.1
Vinyl chloride	1.00	U	62.5	62.5	60.74	63.47

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Method Blank - Batch: 490-241067

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-241067/7	Analysis Batch:	490-241067	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041415-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 1328	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 1328				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
Dibromofluoromethane (Surr)	95	70 - 130
1,2-Dichloroethane-d4 (Surr)	95	70 - 130
Toluene-d8 (Surr)	104	70 - 130

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-241067

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-241067/3	Analysis Batch:	490-241067	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041415-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 1142	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 1142				10 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-241067/4	Analysis Batch:	490-241067	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041415-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/14/2015 1209	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/14/2015 1209				10 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
cis-1,2-Dichloroethene	101	104	76 - 125	2	17		
1,1-Dichloroethene	102	103	79 - 124	1	17		
Tetrachloroethene	92	94	80 - 126	2	16		
trans-1,2-Dichloroethene	105	107	79 - 126	2	16		
Trichloroethene	93	95	80 - 123	2	17		
Vinyl chloride	115	116	68 - 120	1	17		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	100	101	70 - 130
Dibromofluoromethane (Surr)	95	95	70 - 130
1,2-Dichloroethane-d4 (Surr)	90	95	70 - 130
Toluene-d8 (Surr)	98	99	70 - 130

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-241067

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-241067/3	Units:	ug/L	LCSD Lab Sample ID:	LCSD 490-241067/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/14/2015 1142			Analysis Date:	04/14/2015 1209
Prep Date:	04/14/2015 1142			Prep Date:	04/14/2015 1209
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
cis-1,2-Dichloroethene	50.0	50.0	50.69	51.82
1,1-Dichloroethene	50.0	50.0	51.00	51.62
Tetrachloroethene	50.0	50.0	45.96	46.78
trans-1,2-Dichloroethene	50.0	50.0	52.53	53.43
Trichloroethene	50.0	50.0	46.40	47.40
Vinyl chloride	62.5	62.5	71.63	72.44

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Method Blank - Batch: 490-239249

Method: 8082A
Preparation: 3510C

Lab Sample ID:	MB 490-239249/1-A	Analysis Batch:	490-241134	Instrument ID:	HP37
Client Matrix:	Water	Prep Batch:	490-239249	Lab File ID:	041415hp37.042dat.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	04/14/2015 2239	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/06/2015 1334			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
PCB-1242	0.500	U	0.0640	0.500
PCB-1248	0.500	U	0.0690	0.500
PCB-1254	0.500	U	0.00700	0.500

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	66	10 - 150
Tetrachloro-m-xylene	80	10 - 150

Lab Control Sample - Batch: 490-239249

Method: 8082A
Preparation: 3510C

Lab Sample ID:	LCS 490-239249/2-A	Analysis Batch:	490-241134	Instrument ID:	HP37
Client Matrix:	Water	Prep Batch:	490-239249	Lab File ID:	041415hp37.043dat.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	04/14/2015 2255	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/06/2015 1334			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	5.00	4.367	87	23 - 139	
PCB-1260	5.00	3.699	74	36 - 144	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	64	10 - 150
Tetrachloro-m-xylene	78	10 - 150

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Method Blank - Batch: 490-239550

Method: 8082A
Preparation: 3510C

Lab Sample ID:	MB 490-239550/1-A	Analysis Batch:	490-241134	Instrument ID:	HP37
Client Matrix:	Water	Prep Batch:	490-239550	Lab File ID:	041415hp37.008dat.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	04/14/2015 1349	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/07/2015 1433			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
PCB-1242	0.500	U	0.0640	0.500
PCB-1248	0.500	U	0.0690	0.500
PCB-1254	0.500	U	0.00700	0.500

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	69	10 - 150
Tetrachloro-m-xylene	89	10 - 150

Lab Control Sample - Batch: 490-239550

Method: 8082A
Preparation: 3510C

Lab Sample ID:	LCS 490-239550/2-A	Analysis Batch:	490-241134	Instrument ID:	HP37
Client Matrix:	Water	Prep Batch:	490-239550	Lab File ID:	041415hp37.009dat.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	04/14/2015 1404	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/07/2015 1433			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	5.00	4.485	90	23 - 139	
PCB-1260	5.00	3.858	77	36 - 144	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	66	10 - 150
Tetrachloro-m-xylene	78	10 - 150

DATA REPORTING QUALIFIERS

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
	J	Indicates an estimated value.
	*	MS or MSD is outside acceptance limits.
GC Semi VOA		
	U	Analyzed for but not detected.

Client: CH2M Hill, Inc. Job Number: 490-75933-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-240523					
LCS 490-240523/3	Lab Control Sample	T	Water	8260B	
MB 490-240523/6	Method Blank	T	Water	8260B	
490-75933-1	BRMW-11-GW-HS-040215	T	Water	8260B	
490-75933-2	BRMW-11-GW-HS-040215-FD	T	Water	8260B	
490-75933-6	BRMW-04-GW-HS-040215	T	Water	8260B	
490-75933-9TB	TB-03-040215	T	Water	8260B	
490-75933-11	SPRW-702-GW-040315	T	Water	8260B	
490-75933-11MS	Matrix Spike	T	Water	8260B	
490-75933-11MSD	Matrix Spike Duplicate	T	Water	8260B	
Analysis Batch:490-240526					
LCS 490-240526/3	Lab Control Sample	T	Water	8260B	
MB 490-240526/6	Method Blank	T	Water	8260B	
490-75933-7	BRMW-04A-GW-HS-040215	T	Water	8260B	
490-75933-8	BRMW-01-GW-HS-040215	T	Water	8260B	
490-75933-10	SPRW-701-GW-040315	T	Water	8260B	
490-75933-12	SPRW-702-GW-040315-FD	T	Water	8260B	
490-75933-13	SPRW-302-GW-HS-040315	T	Water	8260B	
490-75933-14	SPRW-301-GW-HS-040315	T	Water	8260B	
490-75933-15	SPMW-4A-GW-HS-040315	T	Water	8260B	
490-75933-16	SPMW-4-GW-HS-040315	T	Water	8260B	
490-75933-17	SHMW-10-GW-HS-040315	T	Water	8260B	
490-75933-18	SPMW-14A-GW-HS-040315	T	Water	8260B	
490-75933-19	SPMW-2-GW-HS-040315	T	Water	8260B	
490-75933-20	SDMW-1-GW-HS-040315	T	Water	8260B	
490-75933-21	SFMW-6-GW-HS-040315	T	Water	8260B	
Analysis Batch:490-240821					
LCS 490-240821/3	Lab Control Sample	T	Water	8260B	
LCSD 490-240821/4	Lab Control Sample Duplicate	T	Water	8260B	
MB 490-240821/7	Method Blank	T	Water	8260B	
490-75933-22	SPMW-11-GW-HS-040315	T	Water	8260B	
490-75933-22MS	Matrix Spike	T	Water	8260B	
490-75933-22MSD	Matrix Spike Duplicate	T	Water	8260B	
490-75933-23	SPRW-303A-GW-HS-040315	T	Water	8260B	
490-75933-24	SPRW-303A-GW-HS-040315-FD	T	Water	8260B	

Client: CH2M Hill, Inc. Job Number: 490-75933-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-241067					
LCS 490-241067/3	Lab Control Sample	T	Water	8260B	
LCSD 490-241067/4	Lab Control Sample Duplicate	T	Water	8260B	
MB 490-241067/7	Method Blank	T	Water	8260B	
490-75933-1DL	BRMW-11-GW-HS-040215	T	Water	8260B	
490-75933-2DL	BRMW-11-GW-HS-040215-FD	T	Water	8260B	
490-75933-3	BRMW-10-GW-HS-040215	T	Water	8260B	
490-75933-4	BRMW-05-GW-HS-040215	T	Water	8260B	
490-75933-5	BRMW-05A-GW-HS-040215	T	Water	8260B	
490-75933-10DL	SPRW-701-GW-040315	T	Water	8260B	
490-75933-11DL	SPRW-702-GW-040315	T	Water	8260B	
490-75933-12DL	SPRW-702-GW-040315-FD	T	Water	8260B	
490-75933-13DL	SPRW-302-GW-HS-040315	T	Water	8260B	
490-75933-23DL	SPRW-303A-GW-HS-040315	T	Water	8260B	
490-75933-24DL	SPRW-303A-GW-HS-040315-FD	T	Water	8260B	

Report Basis
T = Total

GC Semi VOA

Prep Batch: 490-239249					
LCS 490-239249/2-A	Lab Control Sample	T	Water	3510C	
MB 490-239249/1-A	Method Blank	T	Water	3510C	
490-75933-10	SPRW-701-GW-040315	T	Water	3510C	
Prep Batch: 490-239550					
LCS 490-239550/2-A	Lab Control Sample	T	Water	3510C	
MB 490-239550/1-A	Method Blank	T	Water	3510C	
490-75933-11	SPRW-702-GW-040315	T	Water	3510C	
490-75933-12	SPRW-702-GW-040315-FD	T	Water	3510C	
490-75933-18	SPMW-14A-GW-HS-040315	T	Water	3510C	
Analysis Batch:490-241134					
LCS 490-239249/2-A	Lab Control Sample	T	Water	8082A	490-239249
MB 490-239249/1-A	Method Blank	T	Water	8082A	490-239249
LCS 490-239550/2-A	Lab Control Sample	T	Water	8082A	490-239550
MB 490-239550/1-A	Method Blank	T	Water	8082A	490-239550
490-75933-10	SPRW-701-GW-040315	T	Water	8082A	490-239249
490-75933-11	SPRW-702-GW-040315	T	Water	8082A	490-239550
490-75933-12	SPRW-702-GW-040315-FD	T	Water	8082A	490-239550
490-75933-18	SPMW-14A-GW-HS-040315	T	Water	8082A	490-239550

Report Basis
T = Total

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Laboratory Chronicle

Lab ID: 490-75933-1 **Client ID:** BRMW-11-GW-HS-040215

Sample Date/Time: 04/02/2015 16:55 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-1		490-240523		04/11/2015 08:00	1	TAL NSH	EML
A:8260B	490-75933-A-1		490-240523		04/11/2015 08:00	1	TAL NSH	EML
P:5030B	490-75933-B-1	DL	490-241067		04/14/2015 18:19	20	TAL NSH	AK1
A:8260B	490-75933-B-1	DL	490-241067		04/14/2015 18:19	20	TAL NSH	AK1

Lab ID: 490-75933-2 **Client ID:** BRMW-11-GW-HS-040215-FD

Sample Date/Time: 04/02/2015 17:00 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-2		490-240523		04/11/2015 08:26	1	TAL NSH	EML
A:8260B	490-75933-A-2		490-240523		04/11/2015 08:26	1	TAL NSH	EML
P:5030B	490-75933-B-2	DL	490-241067		04/14/2015 17:53	20	TAL NSH	AK1
A:8260B	490-75933-B-2	DL	490-241067		04/14/2015 17:53	20	TAL NSH	AK1

Lab ID: 490-75933-3 **Client ID:** BRMW-10-GW-HS-040215

Sample Date/Time: 04/02/2015 17:05 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-B-3		490-241067		04/14/2015 13:54	1	TAL NSH	AK1
A:8260B	490-75933-B-3		490-241067		04/14/2015 13:54	1	TAL NSH	AK1

Lab ID: 490-75933-4 **Client ID:** BRMW-05-GW-HS-040215

Sample Date/Time: 04/02/2015 17:10 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-B-4		490-241067		04/14/2015 14:21	1	TAL NSH	AK1
A:8260B	490-75933-B-4		490-241067		04/14/2015 14:21	1	TAL NSH	AK1

Lab ID: 490-75933-5 **Client ID:** BRMW-05A-GW-HS-040215

Sample Date/Time: 04/02/2015 17:15 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-B-5		490-241067		04/14/2015 14:47	1	TAL NSH	AK1
A:8260B	490-75933-B-5		490-241067		04/14/2015 14:47	1	TAL NSH	AK1

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Laboratory Chronicle

Lab ID: 490-75933-6 **Client ID:** BRMW-04-GW-HS-040215

Sample Date/Time: 04/02/2015 17:25 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-6		490-240523		04/11/2015 10:11	1	TAL NSH	EML
A:8260B	490-75933-A-6		490-240523		04/11/2015 10:11	1	TAL NSH	EML

Lab ID: 490-75933-7 **Client ID:** BRMW-04A-GW-HS-040215

Sample Date/Time: 04/02/2015 17:30 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-7		490-240526		04/11/2015 16:47	1	TAL NSH	EML
A:8260B	490-75933-A-7		490-240526		04/11/2015 16:47	1	TAL NSH	EML

Lab ID: 490-75933-8 **Client ID:** BRMW-01-GW-HS-040215

Sample Date/Time: 04/02/2015 17:40 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-8		490-240526		04/11/2015 17:14	1	TAL NSH	EML
A:8260B	490-75933-A-8		490-240526		04/11/2015 17:14	1	TAL NSH	EML

Lab ID: 490-75933-9 **Client ID:** TB-03-040215

Sample Date/Time: 04/02/2015 18:00 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-9		490-240523		04/11/2015 02:17	1	TAL NSH	EML
A:8260B	490-75933-A-9		490-240523		04/11/2015 02:17	1	TAL NSH	EML

Lab ID: 490-75933-10 **Client ID:** SPRW-701-GW-040315

Sample Date/Time: 04/03/2015 09:50 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-10		490-240526		04/11/2015 17:41	1	TAL NSH	EML
A:8260B	490-75933-A-10		490-240526		04/11/2015 17:41	1	TAL NSH	EML
P:5030B	490-75933-B-10	DL	490-241067		04/14/2015 15:14	5	TAL NSH	AK1
A:8260B	490-75933-B-10	DL	490-241067		04/14/2015 15:14	5	TAL NSH	AK1
P:3510C	490-75933-D-10-A		490-241134	490-239249	04/06/2015 13:34	1	TAL NSH	ET
A:8082A	490-75933-D-10-A		490-241134	490-239249	04/15/2015 03:04	1	TAL NSH	MGH

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Laboratory Chronicle

Lab ID: 490-75933-11 **Client ID:** SPRW-702-GW-040315

Sample Date/Time: 04/03/2015 09:50 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-11		490-240523		04/11/2015 02:44	1	TAL NSH	EML
A:8260B	490-75933-A-11		490-240523		04/11/2015 02:44	1	TAL NSH	EML
P:5030B	490-75933-B-11	DL	490-241067		04/14/2015 15:41	5	TAL NSH	AK1
A:8260B	490-75933-B-11	DL	490-241067		04/14/2015 15:41	5	TAL NSH	AK1
P:3510C	490-75933-D-11-A		490-241134	490-239550	04/07/2015 14:33	5	TAL NSH	BKP
A:8082A	490-75933-D-11-A		490-241134	490-239550	04/15/2015 05:25	5	TAL NSH	MGH

Lab ID: 490-75933-11 **Client ID:** SPRW-702-GW-040315

Sample Date/Time: 04/03/2015 09:50 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-11 MS		490-240523		04/11/2015 10:37	1	TAL NSH	EML
A:8260B	490-75933-A-11 MS		490-240523		04/11/2015 10:37	1	TAL NSH	EML

Lab ID: 490-75933-11 **Client ID:** SPRW-702-GW-040315

Sample Date/Time: 04/03/2015 09:50 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-11 MSD		490-240523		04/11/2015 11:04	1	TAL NSH	EML
A:8260B	490-75933-A-11 MSD		490-240523		04/11/2015 11:04	1	TAL NSH	EML

Lab ID: 490-75933-12 **Client ID:** SPRW-702-GW-040315-FD

Sample Date/Time: 04/03/2015 10:50 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-12		490-240526		04/11/2015 18:07	1	TAL NSH	EML
A:8260B	490-75933-A-12		490-240526		04/11/2015 18:07	1	TAL NSH	EML
P:5030B	490-75933-B-12	DL	490-241067		04/14/2015 16:07	5	TAL NSH	AK1
A:8260B	490-75933-B-12	DL	490-241067		04/14/2015 16:07	5	TAL NSH	AK1
P:3510C	490-75933-D-12-A		490-241134	490-239550	04/07/2015 14:33	5	TAL NSH	BKP
A:8082A	490-75933-D-12-A		490-241134	490-239550	04/15/2015 05:41	5	TAL NSH	MGH

Lab ID: 490-75933-13 **Client ID:** SPRW-302-GW-HS-040315

Sample Date/Time: 04/03/2015 13:00 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-13		490-240526		04/11/2015 18:34	1	TAL NSH	EML
A:8260B	490-75933-A-13		490-240526		04/11/2015 18:34	1	TAL NSH	EML
P:5030B	490-75933-B-13	DL	490-241067		04/14/2015 16:34	5	TAL NSH	AK1
A:8260B	490-75933-B-13	DL	490-241067		04/14/2015 16:34	5	TAL NSH	AK1

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Laboratory Chronicle

Lab ID: 490-75933-14 **Client ID: SPRW-301-GW-HS-040315**

Sample Date/Time: 04/03/2015 13:30 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-14		490-240526		04/11/2015 19:00	1	TAL NSH	EML
A:8260B	490-75933-A-14		490-240526		04/11/2015 19:00	1	TAL NSH	EML

Lab ID: 490-75933-15 **Client ID: SPMW-4A-GW-HS-040315**

Sample Date/Time: 04/03/2015 14:25 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-15		490-240526		04/11/2015 19:27	1	TAL NSH	EML
A:8260B	490-75933-A-15		490-240526		04/11/2015 19:27	1	TAL NSH	EML

Lab ID: 490-75933-16 **Client ID: SPMW-4-GW-HS-040315**

Sample Date/Time: 04/03/2015 14:30 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-16		490-240526		04/11/2015 19:53	1	TAL NSH	EML
A:8260B	490-75933-A-16		490-240526		04/11/2015 19:53	1	TAL NSH	EML

Lab ID: 490-75933-17 **Client ID: SHMW-10-GW-HS-040315**

Sample Date/Time: 04/03/2015 14:55 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-17		490-240526		04/11/2015 20:20	1	TAL NSH	EML
A:8260B	490-75933-A-17		490-240526		04/11/2015 20:20	1	TAL NSH	EML

Lab ID: 490-75933-18 **Client ID: SPMW-14A-GW-HS-040315**

Sample Date/Time: 04/03/2015 15:40 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-18		490-240526		04/11/2015 20:46	1	TAL NSH	EML
A:8260B	490-75933-A-18		490-240526		04/11/2015 20:46	1	TAL NSH	EML
P:3510C	490-75933-E-18-A		490-241134	490-239550	04/07/2015 14:33	1	TAL NSH	BKP
A:8082A	490-75933-E-18-A		490-241134	490-239550	04/14/2015 15:22	1	TAL NSH	MGH

Lab ID: 490-75933-19 **Client ID: SPMW-2-GW-HS-040315**

Sample Date/Time: 04/03/2015 16:00 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-19		490-240526		04/11/2015 21:13	1	TAL NSH	EML
A:8260B	490-75933-A-19		490-240526		04/11/2015 21:13	1	TAL NSH	EML

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Laboratory Chronicle

Lab ID: 490-75933-20 **Client ID: SDMW-1-GW-HS-040315**

Sample Date/Time: 04/03/2015 16:30 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-20		490-240526		04/11/2015 21:39	1	TAL NSH	EML
A:8260B	490-75933-A-20		490-240526		04/11/2015 21:39	1	TAL NSH	EML

Lab ID: 490-75933-21 **Client ID: SFMW-6-GW-HS-040315**

Sample Date/Time: 04/03/2015 16:50 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-21		490-240526		04/11/2015 22:05	1	TAL NSH	EML
A:8260B	490-75933-A-21		490-240526		04/11/2015 22:05	1	TAL NSH	EML

Lab ID: 490-75933-22 **Client ID: SPMW-11-GW-HS-040315**

Sample Date/Time: 04/03/2015 17:05 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-22		490-240821		04/13/2015 13:34	1	TAL NSH	EML
A:8260B	490-75933-A-22		490-240821		04/13/2015 13:34	1	TAL NSH	EML

Lab ID: 490-75933-22 MS **Client ID: SPMW-11-GW-HS-040315**

Sample Date/Time: 04/03/2015 17:05 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-B-22 MS		490-240821		04/13/2015 21:10	1	TAL NSH	EML
A:8260B	490-75933-B-22 MS		490-240821		04/13/2015 21:10	1	TAL NSH	EML

Lab ID: 490-75933-22 MSD **Client ID: SPMW-11-GW-HS-040315**

Sample Date/Time: 04/03/2015 17:05 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-C-22 MSD		490-240821		04/13/2015 21:39	1	TAL NSH	EML
A:8260B	490-75933-C-22 MSD		490-240821		04/13/2015 21:39	1	TAL NSH	EML

Lab ID: 490-75933-23 **Client ID: SPRW-303A-GW-HS-040315**

Sample Date/Time: 04/03/2015 11:50 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-23		490-240821		04/13/2015 14:03	1	TAL NSH	EML
A:8260B	490-75933-A-23		490-240821		04/13/2015 14:03	1	TAL NSH	EML
P:5030B	490-75933-B-23	DL	490-241067		04/14/2015 17:00	5	TAL NSH	AK1
A:8260B	490-75933-B-23	DL	490-241067		04/14/2015 17:00	5	TAL NSH	AK1

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Laboratory Chronicle

Lab ID: 490-75933-24 **Client ID:** SPRW-303A-GW-HS-040315-FD

Sample Date/Time: 04/03/2015 11:55 Received Date/Time: 04/04/2015 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-75933-A-24		490-240821		04/13/2015 14:31	1	TAL NSH	EML
A:8260B	490-75933-A-24		490-240821		04/13/2015 14:31	1	TAL NSH	EML
P:5030B	490-75933-B-24	DL	490-241067		04/14/2015 17:27	5	TAL NSH	AK1
A:8260B	490-75933-B-24	DL	490-241067		04/14/2015 17:27	5	TAL NSH	AK1

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 490-240523/6		490-240523		04/11/2015 01:51	1	TAL NSH	EML
A:8260B	MB 490-240523/6		490-240523		04/11/2015 01:51	1	TAL NSH	EML
P:5030B	MB 490-240526/6		490-240526		04/11/2015 13:42	1	TAL NSH	EML
A:8260B	MB 490-240526/6		490-240526		04/11/2015 13:42	1	TAL NSH	EML
P:5030B	MB 490-240821/7		490-240821		04/13/2015 13:06	1	TAL NSH	EML
A:8260B	MB 490-240821/7		490-240821		04/13/2015 13:06	1	TAL NSH	EML
P:5030B	MB 490-241067/7		490-241067		04/14/2015 13:28	1	TAL NSH	AK1
A:8260B	MB 490-241067/7		490-241067		04/14/2015 13:28	1	TAL NSH	AK1
P:3510C	MB 490-239550/1-A		490-241134	490-239550	04/07/2015 14:33	1	TAL NSH	BKP
A:8082A	MB 490-239550/1-A		490-241134	490-239550	04/14/2015 13:49	1	TAL NSH	MGH
P:3510C	MB 490-239249/1-A		490-241134	490-239249	04/06/2015 13:34	1	TAL NSH	ET
A:8082A	MB 490-239249/1-A		490-241134	490-239249	04/14/2015 22:39	1	TAL NSH	MGH

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 490-240523/3		490-240523		04/11/2015 00:32	1	TAL NSH	EML
A:8260B	LCS 490-240523/3		490-240523		04/11/2015 00:32	1	TAL NSH	EML
P:5030B	LCS 490-240526/3		490-240526		04/11/2015 12:23	1	TAL NSH	EML
A:8260B	LCS 490-240526/3		490-240526		04/11/2015 12:23	1	TAL NSH	EML
P:5030B	LCS 490-240821/3		490-240821		04/13/2015 11:12	1	TAL NSH	EML
A:8260B	LCS 490-240821/3		490-240821		04/13/2015 11:12	1	TAL NSH	EML
P:5030B	LCS 490-241067/3		490-241067		04/14/2015 11:42	1	TAL NSH	AK1
A:8260B	LCS 490-241067/3		490-241067		04/14/2015 11:42	1	TAL NSH	AK1
P:3510C	LCS 490-239550/2-A		490-241134	490-239550	04/07/2015 14:33	1	TAL NSH	BKP
A:8082A	LCS 490-239550/2-A		490-241134	490-239550	04/14/2015 14:04	1	TAL NSH	MGH
P:3510C	LCS 490-239249/2-A		490-241134	490-239249	04/06/2015 13:34	1	TAL NSH	ET
A:8082A	LCS 490-239249/2-A		490-241134	490-239249	04/14/2015 22:55	1	TAL NSH	MGH

Client: CH2M Hill, Inc. Job Number: 490-75933-1

Laboratory Chronicle

Lab ID: LCSD **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 490-240821/4		490-240821		04/13/2015 11:41	1	TAL NSH	EML
A:8260B	LCSD 490-240821/4		490-240821		04/13/2015 11:41	1	TAL NSH	EML
P:5030B	LCSD 490-241067/4		490-241067		04/14/2015 12:09	1	TAL NSH	AK1
A:8260B	LCSD 490-241067/4		490-241067		04/14/2015 12:09	1	TAL NSH	AK1

Lab References:
TAL NSH = TestAmerica Nashville

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
OP_1:1 Sulfur_00007	06/25/15		Macron, Lot 0000056441		(Purchased Reagent)		Stock Chemical	50 %
OP_H2SO4_00013	07/11/18		Macron, Lot 0000053267		(Purchased Reagent)		Sulfuric acid	51 % by Wt
OP_Hexane_00057	08/13/18		Macron, Lot 0000078259		(Purchased Reagent)		Hexane	0 mg/mL
OP_MeCl2_00044	03/22/16		J.T. Baker, Lot 0000100523		(Purchased Reagent)		Methylene Chloride	0 %
OP_NaSO4_00035	10/03/18		J.T. Baker, Lot 0000088217		(Purchased Reagent)		Stock Chemical	0 %
OP_PCB_SPK_00027	09/14/15	03/14/15	ACETONE, Lot OP_ACETONE_CY_00016	200 mL	PCB_1660 _VER_00009	1 mL	PCB-1016	5 ug/mL
							PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
.PCB_1660 _VER_00009	06/30/19		restek, Lot A094336		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
OP_PPCB_SUR_00032	09/30/15	03/30/15	ACETONE, Lot OP_acetone_CY_00010	1000 mL	PEST_SUR_00024	2.5 mL	DCB Decachlorobiphenyl (Surr)	0.5 ug/mL
							Tetrachloro-m-xylene	0.5 ug/mL
.PEST_SUR_00024	11/30/20		Restek, Lot A0105135		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
PCB_1248_IMD_00013	09/23/15	03/23/15	Hexane, Lot OP_HEXANE_00061	10 mL	PCB_1248_00008	100 uL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
.PCB_1248_00008	04/30/19		restek, Lot A092864		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1248 Peak 5	1000 ug/mL
PCB_1248_IMD_00013	09/23/15	03/23/15	Hexane, Lot OP_HEXANE_00061	10 mL	PCB_1248_00008	100 uL	PCB-1248	10 ug/mL
.PCB_1248_00008	04/30/19		restek, Lot A092864		(Purchased Reagent)		PCB-1248	1000 ug/mL
PCB_1660_IMD_00035	09/23/15	03/23/15	Hexane, Lot OP_HEXANE_00061	10 mL	PCB_1660_00003	100 uL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
					PEST_SUR_00022	50 uL	DCB Decachlorobiphenyl (Surr)	1 ug/mL
							Tetrachloro-m-xylene	1 ug/mL
.PCB_1660_00003	06/30/19		restek, Lot A094177		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.PEST_SUR_00022	11/30/20		Restek, Lot A0105135		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
PCB_1660_IMD_00036	09/23/15	03/23/15	Hexane, Lot OP_HEXANE_00061	10 mL	PCB_1660_00006	100 uL	PCB-1016	10 ug/mL
							PCB-1260	10 ug/mL
					PEST_SUR_00022	50 uL	DCB Decachlorobiphenyl (Surr)	1 ug/mL
							Tetrachloro-m-xylene	1 ug/mL
.PCB_1660_00006	06/30/19		restek, Lot A094177		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
.PEST_SUR_00022	11/30/20		Restek, Lot A0105135		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
PCB_1660V_IMD_00011	07/09/15	01/09/15	Hexane, Lot OP_HEXANE_00059	10 mL	PCB_1660 _VER_00009	100 uL	PCB-1016	10 ug/mL
							PCB-1260	10 ug/mL
.PCB_1660 _VER_00009	06/30/19		restek, Lot A094336		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
PCB_2154_IMD_00002	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1221_00004	100 uL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PCB_1254_00007	100 uL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
.PCB_1221_00004	12/31/18		restek, Lot A090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
.PCB_1254_00007	02/28/19		restek, Lot A092005		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
PCB_2154_IMD_00002	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1221_00004	100 uL	PCB-1221	10 ug/mL
					PCB_1254_00007	100 uL	PCB-1254	10 ug/mL
.PCB_1221_00004	12/31/18		restek, Lot A090667		(Purchased Reagent)		PCB-1221	1000 ug/mL
.PCB_1254_00007	02/28/19		restek, Lot A092005		(Purchased Reagent)		PCB-1254	1000 ug/mL
PCB_3262_IMD_00004	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1232_00004	100 uL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
					PCB_1262_00005	100 uL	PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
.PCB_1232_00004	11/30/18		restek, Lot A090290		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
.PCB_1262_00005	06/30/19		restek, Lot A094073		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
PCB_3262_IMD_00004	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1232_00004	100 uL	PCB-1232	10 ug/mL
.PCB_1232_00004	11/30/18		restek, Lot A090290		(Purchased Reagent)		PCB-1232	1000 ug/mL
PCB_4268_IMD_00002	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1242_00009	100 uL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PCB_1268_00007	100 uL	PCB-1268 Peak 1	10 ug/mL
							PCB-1268 Peak 2	10 ug/mL
							PCB-1268 Peak 3	10 ug/mL
							PCB-1268 Peak 4	10 ug/mL
							PCB-1268 Peak 5	10 ug/mL
.PCB_1242_00009	11/30/18		restek, Lot A090182		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
.PCB_1268_00007	01/31/19		restek, Lot A091582		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
PCB_4268_IMD_00002	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1242_00009	100 uL	PCB-1242	10 ug/mL
.PCB_1242_00009	11/30/18		restek, Lot A090182		(Purchased Reagent)		PCB-1242	1000 ug/mL
PCB_Cu_GRAN_00004	06/10/19		Resprep, Lot 212201-AW		(Purchased Reagent)		Cu	1000000 ug/mL
PCB_IS_Int_00006	09/24/15	03/24/15	Hexane, Lot OP_Hexane_00061	5 mL	PCB_1-Bromo_00001	0.5 mL	1-Bromo-2-nitrobenzene	100 ug/mL
.PCB_1-Bromo_00001	03/31/18		Restek, Lot A0107658		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
V1_gases_I_00093	03/16/15	03/09/15	Methanol, Lot 0000062345	25 mL	V1_Gases_00008	1.25 mL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V1_Gases_00008	09/30/16		Restek, Lot A0105755		(Purchased Reagent)		Bromomethane	2000000 ug/L
							Butadiene	2000000 ug/L
							Chloroethane	2000000 ug/L
							Chloromethane	2000000 ug/L
							Dichlorodifluoromethane	2000000 ug/L
							Dichlorofluoromethane	2000000 ug/L
							Trichlorofluoromethane	2000000 ug/L
							Vinyl chloride	2000000 ug/L
V1_gases_I_00096	04/08/15	04/01/15	Methanol, Lot 0000062345	25 mL	V1_Gases_00009	1 mL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	100 ug/mL
.V1_Gases_00009	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500000 ug/L
							Butadiene	2500000 ug/L
							Chloroethane	2500000 ug/L
							Chloromethane	2500000 ug/L
							Dichlorodifluoromethane	2500000 ug/L
							Dichlorofluoromethane	2500000 ug/L
							Trichlorofluoromethane	2500000 ug/L
							Vinyl chloride	2500000 ug/L
V1_gases_I_00098	04/16/15	04/09/15	Methanol, Lot 0000085233	25 mL	V1_Gases_00009	1.25 mL	Vinyl chloride	125 ug/mL
.V1_Gases_00009	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Vinyl chloride	2500000 ug/L
V1_Mega_I_00033	03/19/15	02/19/15	Methanol, Lot 0000049909	50 mL	V1_2-CEVE_00005	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					V1_AcroleinHi_00005	0.625 mL	Acrolein	250 ug/mL
					V1_Additions_00010	2.5 mL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1-Chlorohexane	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Benzyl chloride	100 ug/mL
							Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Methacrylonitrile	1000 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butanol	2500 ug/mL
							n-Butyl acetate	100 ug/mL
					V1_cyclohxnon_00009	2.5 mL	Cyclohexanone	1000 ug/mL
					V1_Megamix_00012	2.5 mL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	1000 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					V1_Polar addi_00004	2.5 mL	Acetonitrile	1000 ug/mL
							Ethanol	5000 ug/mL
							Isopropyl ether	100 ug/mL
							Propionitrile	1000 ug/mL
							t-Amyl alcohol	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
					V1_vnl acetat_00010	2.5 mL	Vinyl acetate	200 ug/mL
					V2_Keytones_00005	2.5 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.V1_2-CEVE_00005	02/28/16		Restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000000 ug/L
.V1_AcroleinHi_00005	02/28/15		Restek, Lot A0106504		(Purchased Reagent)		Acrolein	20000000 ug/L
.V1_Additions_00010	09/30/15		Restek, Lot A0101694		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000000 ug/L
							1,3,5-Trichlorobenzene	2000000 ug/L
							1-Chlorohexane	2000000 ug/L
							2-Chloro-1,3-butadiene	2000000 ug/L
							2-Nitropropane	4000000 ug/L
							Benzyl chloride	2000000 ug/L
							Ethyl acetate	4000000 ug/L
							Ethyl acrylate	2000000 ug/L
							Isopropyl alcohol	20000000 ug/L
							Methacrylonitrile	20000000 ug/L
							Methyl methacrylate	4000000 ug/L
							n-Butanol	50000000 ug/L
							n-Butyl acetate	2000000 ug/L
.V1_cyclohxnon_00009	02/28/17		Restek, Lot A0101574		(Purchased Reagent)		Cyclohexanone	20000000 ug/L
.V1_Megamix_00012	02/28/16		Restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000000 ug/L
							1,1,1-Trichloroethane	2000000 ug/L
							1,1,2,2-Tetrachloroethane	2000000 ug/L
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000000 ug/L
							1,1,2-Trichloroethane	2000000 ug/L
							1,1-Dichloroethane	2000000 ug/L
							1,1-Dichloroethene	2000000 ug/L
							1,1-Dichloropropene	2000000 ug/L
							1,2,3-Trichlorobenzene	2000000 ug/L
							1,2,3-Trichloropropane	2000000 ug/L
							1,2,4-Trichlorobenzene	2000000 ug/L
							1,2,4-Trimethylbenzene	2000000 ug/L
							1,2-Dibromo-3-Chloropropane	2000000 ug/L
							1,2-Dichlorobenzene	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	2000000 ug/L
							1,2-Dichloropropane	2000000 ug/L
							1,3,5-Trimethylbenzene	2000000 ug/L
							1,3-Dichlorobenzene	2000000 ug/L
							1,3-Dichloropropane	2000000 ug/L
							1,4-Dichlorobenzene	2000000 ug/L
							1,4-Dioxane	40000000 ug/L
							2,2-Dichloropropane	2000000 ug/L
							2-Chlorotoluene	2000000 ug/L
							2-Methyl-2-propanol	20000000 ug/L
							3-Chloro-1-propene	2000000 ug/L
							4-Chlorotoluene	2000000 ug/L
							4-Isopropyltoluene	2000000 ug/L
							Acrylonitrile	20000000 ug/L
							Benzene	2000000 ug/L
							Bromobenzene	2000000 ug/L
							Bromoform	2000000 ug/L
							Carbon disulfide	2000000 ug/L
							Carbon tetrachloride	2000000 ug/L
							Chlorobenzene	2000000 ug/L
							Chlorobromomethane	2000000 ug/L
							Chlorodibromomethane	2000000 ug/L
							Chloroform	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							cis-1,3-Dichloropropene	2000000 ug/L
							Cyclohexane	2000000 ug/L
							Dibromomethane	2000000 ug/L
							Dichlorobromomethane	2000000 ug/L
							Ethyl ether	2000000 ug/L
							Ethyl methacrylate	2000000 ug/L
							Ethylbenzene	2000000 ug/L
							Ethylene Dibromide	2000000 ug/L
							Hexachlorobutadiene	2000000 ug/L
							Hexane	2000000 ug/L
							Iodomethane	2000000 ug/L
							Isobutyl alcohol	20000000 ug/L
							Isopropylbenzene	2000000 ug/L
							m-Xylene & p-Xylene	2000000 ug/L
							Methyl acetate	10000000 ug/L
							Methyl tert-butyl ether	2000000 ug/L
							Methylcyclohexane	2000000 ug/L
							Methylene Chloride	2000000 ug/L
							n-Butylbenzene	2000000 ug/L
							n-Heptane	2000000 ug/L
							N-Propylbenzene	2000000 ug/L
							Naphthalene	2000000 ug/L
							o-Xylene	2000000 ug/L
							sec-Butylbenzene	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	2000000 ug/L
							tert-Butylbenzene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							Tetrahydrofuran	4000000 ug/L
							Toluene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							trans-1,3-Dichloropropene	2000000 ug/L
							trans-1,4-Dichloro-2-butene	2000000 ug/L
							Trichloroethene	2000000 ug/L
.V1_Polar addi_00004	05/31/16		Restek, Lot A0103696		(Purchased Reagent)		Acetonitrile	20000000 ug/L
							Ethanol	100000000 ug/L
							Isopropyl ether	2000000 ug/L
							Propionitrile	20000000 ug/L
							t-Amyl alcohol	20000000 ug/L
							Tert-amyl methyl ether	2000000 ug/L
							Tert-butyl ethyl ether	2000000 ug/L
.V1_vnl acetat_00010	05/31/15		Restek, Lot A0107309		(Purchased Reagent)		Vinyl acetate	4000000 ug/L
.V2_Keytones_00005	12/31/17		Restek, Lot A0107509		(Purchased Reagent)		2-Butanone (MEK)	10000000 ug/L
							2-Hexanone	10000000 ug/L
							4-Methyl-2-pentanone (MIBK)	10000000 ug/L
							Acetone	10000000 ug/L
V1_Mega_I_00034	04/20/15	03/20/15	Methanol, Lot 0000049909	50 mL	V1_2-CEVE_00006	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					V1_AcroleinHi_00006	0.625 mL	Acrolein	250 ug/mL
					V1_Additions_00011	2 mL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1-Chlorohexane	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Benzyl chloride	100 ug/mL
							Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Methacrylonitrile	1000 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butanol	2500 ug/mL
							n-Butyl acetate	100 ug/mL
					V1_cyclohxnon_00010	2 mL	Cyclohexanone	1000 ug/mL
					V1_Keytones_00008	2 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					V1_Megamix_00013	2 mL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					V1_Polar addi_00005	2 mL	Acetonitrile	1000 ug/mL
							Ethanol	4000 ug/mL
							Isopropyl ether	100 ug/mL
							Propionitrile	1000 ug/mL
							t-Amyl alcohol	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
					V1_vnl acetat_00011	2 mL	Vinyl acetate	200 ug/mL
.V1_2-CEVE_00006	01/31/18		Restek, Lot A0108172		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500000 ug/L
.V1_AcroleinHi_00006	05/31/15		Restek, Lot A0108734		(Purchased Reagent)		Acrolein	20000000 ug/L
.V1_Additions_00011	07/31/15		Restek, Lot A0108219		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500000 ug/L
							1,3,5-Trichlorobenzene	2500000 ug/L
							1-Chlorohexane	2500000 ug/L
							2-Chloro-1,3-butadiene	2500000 ug/L
							2-Nitropropane	5000000 ug/L
							Benzyl chloride	2500000 ug/L
							Ethyl acetate	5000000 ug/L
							Ethyl acrylate	2500000 ug/L
							Isopropyl alcohol	25000000 ug/L
							Methacrylonitrile	25000000 ug/L
							Methyl methacrylate	5000000 ug/L
							n-Butanol	62500000 ug/L
							n-Butyl acetate	2500000 ug/L
.V1_cyclohxnon_00010	01/31/18		Restek, Lot A0108235		(Purchased Reagent)		Cyclohexanone	25000000 ug/L
.V1_Keytones_00008	01/31/18		Restek, Lot A01081051		(Purchased Reagent)		2-Butanone (MEK)	12500000 ug/L
							2-Hexanone	12500000 ug/L
							4-Methyl-2-pentanone (MIBK)	12500000 ug/L
							Acetone	12500000 ug/L
.V1_Megamix_00013	01/31/17		Restek, Lot A0108166		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,1-Trichloroethane	2500000 ug/L
							1,1,2,2-Tetrachloroethane	2500000 ug/L
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500000 ug/L
							1,1,2-Trichloroethane	2500000 ug/L
							1,1-Dichloroethane	2500000 ug/L
							1,1-Dichloroethene	2500000 ug/L
							1,1-Dichloropropene	2500000 ug/L
							1,2,3-Trichlorobenzene	2500000 ug/L
							1,2,3-Trichloropropane	2500000 ug/L
							1,2,4-Trichlorobenzene	2500000 ug/L
							1,2,4-Trimethylbenzene	2500000 ug/L
							1,2-Dibromo-3-Chloropropane	2500000 ug/L
							1,2-Dichlorobenzene	2500000 ug/L
							1,2-Dichloroethane	2500000 ug/L
							1,2-Dichloropropane	2500000 ug/L
							1,3,5-Trimethylbenzene	2500000 ug/L
							1,3-Dichlorobenzene	2500000 ug/L
							1,3-Dichloropropane	2500000 ug/L
							1,4-Dichlorobenzene	2500000 ug/L
							1,4-Dioxane	50000000 ug/L
							2,2-Dichloropropane	2500000 ug/L
							2-Chlorotoluene	2500000 ug/L
							2-Methyl-2-propanol	25000000 ug/L
							3-Chloro-1-propene	2500000 ug/L
							4-Chlorotoluene	2500000 ug/L
							4-Isopropyltoluene	2500000 ug/L
							Acrylonitrile	25000000 ug/L
							Benzene	2500000 ug/L
							Bromobenzene	2500000 ug/L
							Bromoform	2500000 ug/L
							Carbon disulfide	2500000 ug/L
							Carbon tetrachloride	2500000 ug/L
							Chlorobenzene	2500000 ug/L
							Chlorobromomethane	2500000 ug/L
							Chlorodibromomethane	2500000 ug/L
							Chloroform	2500000 ug/L
							cis-1,2-Dichloroethene	2500000 ug/L
							cis-1,3-Dichloropropene	2500000 ug/L
							Cyclohexane	2500000 ug/L
							Dibromomethane	2500000 ug/L
							Dichlorobromomethane	2500000 ug/L
							Ethyl ether	2500000 ug/L
							Ethyl methacrylate	2500000 ug/L
							Ethylbenzene	2500000 ug/L
							Ethylene Dibromide	2500000 ug/L
							Hexachlorobutadiene	2500000 ug/L
							Hexane	2500000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Iodomethane	2500000 ug/L
							Isobutyl alcohol	62500000 ug/L
							Isopropylbenzene	2500000 ug/L
							m-Xylene & p-Xylene	2500000 ug/L
							Methyl acetate	12500000 ug/L
							Methyl tert-butyl ether	2500000 ug/L
							Methylcyclohexane	2500000 ug/L
							Methylene Chloride	2500000 ug/L
							n-Butylbenzene	2500000 ug/L
							n-Heptane	2500000 ug/L
							N-Propylbenzene	2500000 ug/L
							Naphthalene	2500000 ug/L
							o-Xylene	2500000 ug/L
							sec-Butylbenzene	2500000 ug/L
							Styrene	2500000 ug/L
							tert-Butylbenzene	2500000 ug/L
							Tetrachloroethene	2500000 ug/L
							Tetrahydrofuran	5000000 ug/L
							Toluene	2500000 ug/L
							trans-1,2-Dichloroethene	2500000 ug/L
							trans-1,3-Dichloropropene	2500000 ug/L
							trans-1,4-Dichloro-2-butene	2500000 ug/L
							Trichloroethene	2500000 ug/L
.V1_Polar addi_00005	01/31/17		Restek, Lot A0108216		(Purchased Reagent)		Acetonitrile	25000000 ug/L
							Ethanol	100000000 ug/L
							Isopropyl ether	2500000 ug/L
							Propionitrile	25000000 ug/L
							t-Amyl alcohol	25000000 ug/L
							Tert-amyl methyl ether	2500000 ug/L
							Tert-butyl ethyl ether	2500000 ug/L
.V1_vnl acetat_00011	07/31/15		Restek, Lot A0108225		(Purchased Reagent)		Vinyl acetate	5000000 ug/L
V2_gases_I_00072	03/16/15	03/09/15	Methanol, Lot 0000085233	25 mL	V2_Gases_00008	1.25 mL	Vinyl chloride	100 ug/mL
.V2_Gases_00008	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Vinyl chloride	2000000 ug/L
V2_gases_I_00074	04/08/15	04/01/15	Methanol, Lot 0000085233	25 mL	V2_Gases_00008	1.25 mL	Vinyl chloride	100 ug/mL
.V2_Gases_00008	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Vinyl chloride	2000000 ug/L
V2_Mega_I_00036	03/23/15	02/23/15	Methanol, Lot UST_Methanol_00030	10 mL	V2_Megamix_00008	0.5 mL	1,1-Dichloroethene	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							Trichloroethene	100 ug/mL
.V2_Megamix_00008	02/28/16		Restek, Lot A093733		(Purchased Reagent)		1,1-Dichloroethene	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	2000000 ug/L
							Trichloroethene	2000000 ug/L
V2_Mega_I_00038	04/27/15	03/27/15	Methanol, Lot UST_Methanol_00030	10 mL	V2_Megamix_00010	0.5 mL	1,1-Dichloroethene	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							Trichloroethene	100 ug/mL
.V2_Megamix_00010	02/28/16	Restek, Lot A093733			(Purchased Reagent)		1,1-Dichloroethene	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							Trichloroethene	2000000 ug/L
VOA_ISSS_50_W_00024	04/18/15	03/07/15	Methanol, Lot id_00037	50 mL	VOA_ISSS250_W_00019	10 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
							1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
.VOA_ISSS250_W_00019	09/06/15	03/07/15	Methanol, Lot UST_Methanol_00037	50 mL	V1_Surrogates_00002	5 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
					VOA_IS Mix_S_00006	5 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
..V1_Surrogates_00002	02/28/18	Restek, Lot A093505			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500000 ug/L
							4-Bromofluorobenzene (Surr)	2500000 ug/L
							Dibromofluoromethane (Surr)	2500000 ug/L
							Toluene-d8 (Surr)	2500000 ug/L
..VOA_IS Mix_S_00006	12/31/15	Ultra Scientific, Lot CK-3734			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500000 ug/L
							Chlorobenzene-d5	2500000 ug/L
							Fluorobenzene (IS)	2500000 ug/L

Certification Summary

Client: CH2M Hill, Inc.
Project/Site: Schlumberger Sangamo OU-1 GW 2015

TestAmerica Job ID: 490-75933-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	A2LA		NA: NELAP & A2LA
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	Alaska (UST)	State Program	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas DEQ	State Program	6	88-0737
TestAmerica Nashville	California	State Program	9	2938
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAP	4	E87358
TestAmerica Nashville	Illinois	NELAP	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAP	7	E-10229
TestAmerica Nashville	Kentucky (UST)	State Program	4	19
TestAmerica Nashville	Kentucky (WW)	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAP	6	30613
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAP	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana (UST)	State Program	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAP	1	2963
TestAmerica Nashville	New Jersey	NELAP	2	TN965
TestAmerica Nashville	New York	NELAP	2	11342
TestAmerica Nashville	North Carolina (WW/SW)	State Program	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio VAP	State Program	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAP	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAP	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009 (001)
TestAmerica Nashville	South Carolina (DW)	State Program	4	84009 (002)
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAP	6	T104704077
TestAmerica Nashville	USDA	Federal		S-48469
TestAmerica Nashville	Utah	NELAP	8	TN00032
TestAmerica Nashville	Virginia	NELAP	3	460152
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia DEP	State Program	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430
TestAmerica Nashville	Wyoming (UST)	A2LA	8	453.07

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
BRMW-11-GW-HS-040215	490-75933-1	92	97	102	104
BRMW-11-GW-HS-040215 DL	490-75933-1 DL	94	91	106	98
BRMW-11-GW-HS-040215-FD	490-75933-2	91	96	101	101
BRMW-11-GW-HS-040215-FD DL	490-75933-2 DL	95	93	105	98
BRMW-10-GW-HS-040215	490-75933-3	95	94	102	99
BRMW-05-GW-HS-040215	490-75933-4	96	94	105	98
BRMW-05A-GW-HS-040215	490-75933-5	97	96	103	97
BRMW-04-GW-HS-040215	490-75933-6	95	98	103	103
BRMW-04A-GW-HS-040215	490-75933-7	96	100	102	104
BRMW-01-GW-HS-040215	490-75933-8	97	102	102	103
TB-03-040215	490-75933-9	94	99	98	106
SPRW-701-GW-040315	490-75933-10	95	99	102	107
SPRW-701-GW-040315 DL	490-75933-10 DL	98	97	104	97
SPRW-702-GW-040315	490-75933-11	95	100	98	104
SPRW-702-GW-040315 DL	490-75933-11 DL	96	94	103	95
SPRW-702-GW-040315-FD	490-75933-12	94	99	103	100
SPRW-702-GW-040315-FD DL	490-75933-12 DL	97	95	103	95
SPRW-302-GW-HS-040315	490-75933-13	95	100	102	105
SPRW-302-GW-HS-040315 DL	490-75933-13 DL	97	96	104	97
SPRW-301-GW-HS-040315	490-75933-14	93	101	103	104
SPMW-4A-GW-HS-040315	490-75933-15	97	103	100	103
SPMW-4-GW-HS-040315	490-75933-16	96	101	102	103
SHMW-10-GW-HS-040315	490-75933-17	94	100	101	101
SPMW-14A-GW-HS-040315	490-75933-18	96	99	103	103
SPMW-2-GW-HS-040315	490-75933-19	96	101	102	103

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
SDMW-1-GW-HS-040315	490-75933-20	96	99	104	106
SFMW-6-GW-HS-040315	490-75933-21	95	99	100	103
SPMW-11-GW-HS-040315	490-75933-22	98	108	104	98
SPRW-303A-GW-HS-040315	490-75933-23	96	108	103	96
SPRW-303A-GW-HS-040315 DL	490-75933-23 DL	97	95	105	97
SPRW-303A-GW-HS-040315-FD	490-75933-24	106	108	103	96
SPRW-303A-GW-HS-040315-FD DL	490-75933-24 DL	96	95	104	97
	MB 490-240523/6	96	103	98	103
	MB 490-240526/6	96	101	102	104
	MB 490-240821/7	106	106	101	99
	MB 490-241067/7	95	95	104	98
	LCS 490-240523/3	93	97	99	111
	LCS 490-240526/3	91	96	99	107
	LCS 490-240821/3	99	98	104	101
	LCS 490-241067/3	95	90	98	100
	LCSD 490-240821/4	99	99	101	98
	LCSD 490-241067/4	95	95	99	101
SPRW-702-GW-040315 MS	490-75933-11 MS	92	95	99	107
SPMW-11-GW-HS-040315 MS	490-75933-22 MS	90	99	101	97
SPRW-702-GW-040315 MSD	490-75933-11 MSD	93	96	100	107
SPMW-11-GW-HS-040315 MSD	490-75933-22 MSD	99	99	103	97

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041015-34.D

Lab ID: LCS 490-240523/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	48.85	98	76-125	
1,1-Dichloroethene	50.0	47.38	95	79-124	
Tetrachloroethene	50.0	42.46	85	80-126	
trans-1,2-Dichloroethene	50.0	50.82	102	79-126	
Trichloroethene	50.0	43.07	86	80-123	
Vinyl chloride	62.5	64.22	103	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041015-61.D

Lab ID: LCS 490-240526/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	50.14	100	76-125	
1,1-Dichloroethene	50.0	49.70	99	79-124	
Tetrachloroethene	50.0	42.45	85	80-126	
trans-1,2-Dichloroethene	50.0	54.25	109	79-126	
Trichloroethene	50.0	43.42	87	80-123	
Vinyl chloride	62.5	72.94	117	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041315-03.D

Lab ID: LCS 490-240821/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	44.52	89	76-125	
1,1-Dichloroethene	50.0	44.33	89	79-124	
Tetrachloroethene	50.0	54.33	109	80-126	
trans-1,2-Dichloroethene	50.0	43.06	86	79-126	
Trichloroethene	50.0	53.86	108	80-123	
Vinyl chloride	62.5	63.99	102	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041415-03.D

Lab ID: LCS 490-241067/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	50.69	101	76-125	
1,1-Dichloroethene	50.0	51.00	102	79-124	
Tetrachloroethene	50.0	45.96	92	80-126	
trans-1,2-Dichloroethene	50.0	52.53	105	79-126	
Trichloroethene	50.0	46.40	93	80-123	
Vinyl chloride	62.5	71.63	115	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041315-04.D

Lab ID: LCSD 490-240821/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	44.72	89	0	17	76-125	
1,1-Dichloroethene	50.0	44.28	89	0	17	79-124	
Tetrachloroethene	50.0	52.32	105	4	16	80-126	
trans-1,2-Dichloroethene	50.0	43.01	86	0	16	79-126	
Trichloroethene	50.0	53.26	107	1	17	80-123	
Vinyl chloride	62.5	62.74	100	2	17	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041415-04.D

Lab ID: LCSD 490-241067/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	51.82	104	2	17	76-125	
1,1-Dichloroethene	50.0	51.62	103	1	17	79-124	
Tetrachloroethene	50.0	46.78	94	2	16	80-126	
trans-1,2-Dichloroethene	50.0	53.43	107	2	16	79-126	
Trichloroethene	50.0	47.40	95	2	17	80-123	
Vinyl chloride	62.5	72.44	116	1	17	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041015-57.D

Lab ID: 490-75933-11 MS Client ID: SPRW-702-GW-040315 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	11.3	62.28	102	68-138	
1,1-Dichloroethene	50.0	0.351 J	52.39	104	70-142	
Tetrachloroethene	50.0	262	284.3	45	72-145	E *
trans-1,2-Dichloroethene	50.0	1.00 U	56.19	112	66-143	
Trichloroethene	50.0	29.2	71.42	85	73-144	
Vinyl chloride	62.5	0.308 J	71.55	114	56-129	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041315-24.D

Lab ID: 490-75933-22 MS Client ID: SPMW-11-GW-HS-040315 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	1.10	46.48	91	68-138	
1,1-Dichloroethene	50.0	1.00 U	46.25	93	70-142	
Tetrachloroethene	50.0	70.4	122.1	103	72-145	
trans-1,2-Dichloroethene	50.0	1.00 U	44.63	89	66-143	
Trichloroethene	50.0	122	172.0	100	73-144	
Vinyl chloride	62.5	1.00 U	60.74	97	56-129	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041015-58.D

Lab ID: 490-75933-11 MSD Client ID: SPRW-702-GW-040315 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	62.86	103	1	17	68-138	
1,1-Dichloroethene	50.0	54.17	108	3	17	70-142	
Tetrachloroethene	50.0	295.6	67	4	16	72-145	E *
trans-1,2-Dichloroethene	50.0	56.70	113	1	16	66-143	
Trichloroethene	50.0	72.83	87	2	17	73-144	
Vinyl chloride	62.5	72.74	116	2	17	56-129	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041315-25.D

Lab ID: 490-75933-22 MSD Client ID: SPMW-11-GW-HS-040315 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	46.84	91	1	17	68-138	
1,1-Dichloroethene	50.0	47.79	96	3	17	70-142	
Tetrachloroethene	50.0	127.6	114	4	16	72-145	
trans-1,2-Dichloroethene	50.0	45.60	91	2	16	66-143	
Trichloroethene	50.0	178.1	112	3	17	73-144	
Vinyl chloride	62.5	63.47	102	4	17	56-129	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab File ID: 041015-37.D Lab Sample ID: MB 490-240523/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP32 Date Analyzed: 04/11/2015 01:51

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-240523/3	041015-34.D	04/11/2015 00:32
TB-03-040215	490-75933-9	041015-38.D	04/11/2015 02:17
SPRW-702-GW-040315	490-75933-11	041015-39.D	04/11/2015 02:44
BRMW-11-GW-HS-040215	490-75933-1	041015-51.D	04/11/2015 08:00
BRMW-11-GW-HS-040215-FD	490-75933-2	041015-52.D	04/11/2015 08:26
BRMW-04-GW-HS-040215	490-75933-6	041015-56.D	04/11/2015 10:11
SPRW-702-GW-040315 MS	490-75933-11 MS	041015-57.D	04/11/2015 10:37
SPRW-702-GW-040315 MSD	490-75933-11 MSD	041015-58.D	04/11/2015 11:04

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab File ID: 041015-64.D Lab Sample ID: MB 490-240526/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP32 Date Analyzed: 04/11/2015 13:42

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-240526/3	041015-61.D	04/11/2015 12:23
BRMW-04A-GW-HS-040215	490-75933-7	041015-71.D	04/11/2015 16:47
BRMW-01-GW-HS-040215	490-75933-8	041015-72.D	04/11/2015 17:14
SPRW-701-GW-040315	490-75933-10	041015-73.D	04/11/2015 17:41
SPRW-702-GW-040315-FD	490-75933-12	041015-74.D	04/11/2015 18:07
SPRW-302-GW-HS-040315	490-75933-13	041015-75.D	04/11/2015 18:34
SPRW-301-GW-HS-040315	490-75933-14	041015-76.D	04/11/2015 19:00
SPMW-4A-GW-HS-040315	490-75933-15	041015-77.D	04/11/2015 19:27
SPMW-4-GW-HS-040315	490-75933-16	041015-78.D	04/11/2015 19:53
SHMW-10-GW-HS-040315	490-75933-17	041015-79.D	04/11/2015 20:20
SPMW-14A-GW-HS-040315	490-75933-18	041015-80.D	04/11/2015 20:46
SPMW-2-GW-HS-040315	490-75933-19	041015-81.D	04/11/2015 21:13
SDMW-1-GW-HS-040315	490-75933-20	041015-82.D	04/11/2015 21:39
SFMW-6-GW-HS-040315	490-75933-21	041015-83.D	04/11/2015 22:05

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab File ID: 041315-07.D Lab Sample ID: MB 490-240821/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP25 Date Analyzed: 04/13/2015 13:06

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-240821/3	041315-03.D	04/13/2015 11:12
	LCSD 490-240821/4	041315-04.D	04/13/2015 11:41
SPMW-11-GW-HS-040315	490-75933-22	041315-08.D	04/13/2015 13:34
SPRW-303A-GW-HS-040315	490-75933-23	041315-09.D	04/13/2015 14:03
SPRW-303A-GW-HS-040315-FD	490-75933-24	041315-10.D	04/13/2015 14:31
SPMW-11-GW-HS-040315 MS	490-75933-22 MS	041315-24.D	04/13/2015 21:10
SPMW-11-GW-HS-040315 MSD	490-75933-22 MSD	041315-25.D	04/13/2015 21:39

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab File ID: 041415-07.D Lab Sample ID: MB 490-241067/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP32 Date Analyzed: 04/14/2015 13:28

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-241067/3	041415-03.D	04/14/2015 11:42
	LCSD 490-241067/4	041415-04.D	04/14/2015 12:09
BRMW-10-GW-HS-040215	490-75933-3	041415-08.D	04/14/2015 13:54
BRMW-05-GW-HS-040215	490-75933-4	041415-09.D	04/14/2015 14:21
BRMW-05A-GW-HS-040215	490-75933-5	041415-10.D	04/14/2015 14:47
SPRW-701-GW-040315 DL	490-75933-10 DL	041415-11.D	04/14/2015 15:14
SPRW-702-GW-040315 DL	490-75933-11 DL	041415-12.D	04/14/2015 15:41
SPRW-702-GW-040315-FD DL	490-75933-12 DL	041415-13.D	04/14/2015 16:07
SPRW-302-GW-HS-040315 DL	490-75933-13 DL	041415-14.D	04/14/2015 16:34
SPRW-303A-GW-HS-040315 DL	490-75933-23 DL	041415-15.D	04/14/2015 17:00
SPRW-303A-GW-HS-040315-FD DL	490-75933-24 DL	041415-16.D	04/14/2015 17:27
BRMW-11-GW-HS-040215-FD DL	490-75933-2 DL	041415-17.D	04/14/2015 17:53
BRMW-11-GW-HS-040215 DL	490-75933-1 DL	041415-18.D	04/14/2015 18:19

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab File ID: 040115-04.D BFB Injection Date: 04/01/2015

Instrument ID: HP25 BFB Injection Time: 13:25

Analysis Batch No.: 238076

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.0	
75	30.0 - 60.0 % of mass 95	48.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.1	(0.1)1
174	50.0 - 120.00 % of mass 95	89.7	
175	5.0 - 9.0 % of mass 174	6.7	(7.4)1
176	95.0 - 101.0 % of mass 174	86.0	(95.8)1
177	5.0 - 9.0 % of mass 176	5.7	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD0005 490-238076/5	040115-05.D	04/01/2015	13:52
	STD001 490-238076/6	040115-06.D	04/01/2015	14:19
	STD002 490-238076/7	040115-07.D	04/01/2015	14:47
	STD010 490-238076/8	040115-08.D	04/01/2015	15:14
	STD020 490-238076/9	040115-09.D	04/01/2015	15:42
	ICIS 490-238076/10	040115-10.D	04/01/2015	16:09
	STD100 490-238076/11	040115-11.D	04/01/2015	16:37
	STD200 490-238076/12	040115-12.D	04/01/2015	17:04
	ICV 490-238076/15	040115-15.D	04/01/2015	18:26

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab File ID: 041315-01.D BFB Injection Date: 04/13/2015

Instrument ID: HP25 BFB Injection Time: 10:15

Analysis Batch No.: 240821

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.7	
75	30.0 - 60.0 % of mass 95	46.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.3	(0.3)1
174	50.0 - 120.00 % of mass 95	91.7	
175	5.0 - 9.0 % of mass 174	6.7	(7.4)1
176	95.0 - 101.0 % of mass 174	87.4	(95.3)1
177	5.0 - 9.0 % of mass 176	5.8	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-240821/2	041315-02.D	04/13/2015	10:44
	LCS 490-240821/3	041315-03.D	04/13/2015	11:12
	LCSD 490-240821/4	041315-04.D	04/13/2015	11:41
	MB 490-240821/7	041315-07.D	04/13/2015	13:06
SPMW-11-GW-HS-040315	490-75933-22	041315-08.D	04/13/2015	13:34
SPRW-303A-GW-HS-040315	490-75933-23	041315-09.D	04/13/2015	14:03
SPRW-303A-GW-HS-040315-FD	490-75933-24	041315-10.D	04/13/2015	14:31
SPMW-11-GW-HS-040315 MS	490-75933-22 MS	041315-24.D	04/13/2015	21:10
SPMW-11-GW-HS-040315 MSD	490-75933-22 MSD	041315-25.D	04/13/2015	21:39

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab File ID: 031315-01.D BFB Injection Date: 03/13/2015

Instrument ID: HP32 BFB Injection Time: 10:59

Analysis Batch No.: 233414

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	
75	30.0 - 60.0 % of mass 95	
95	Base Peak, 100% relative abundance	
96	5.0 - 9.0 % of mass 95	
173	Less than 2.0 % of mass 174	1
174	50.0 - 120.00 % of mass 95	
175	5.0 - 9.0 % of mass 174	1
176	95.0 - 101.0 % of mass 174	1
177	5.0 - 9.0 % of mass 176	2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD0005 490-233414/2	031315-02.D	03/13/2015	11:26
	STD001 490-233414/3	031315-03.D	03/13/2015	11:52
	STD002 490-233414/4	031315-04.D	03/13/2015	12:19
	STD010 490-233414/5	031315-05.D	03/13/2015	12:45
	STD020 490-233414/6	031315-06.D	03/13/2015	13:12
	ICIS 490-233414/7	031315-07.D	03/13/2015	13:38
	STD100 490-233414/8	031315-08.D	03/13/2015	14:05
	STD200 490-233414/9	031315-09.D	03/13/2015	14:31
	ICV 490-233414/12	031315-12.D	03/13/2015	15:50

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab File ID: 041015-32.D BFB Injection Date: 04/10/2015

Instrument ID: HP32 BFB Injection Time: 23:40

Analysis Batch No.: 240523

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.5	
75	30.0 - 60.0 % of mass 95	47.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	88.9	
175	5.0 - 9.0 % of mass 174	6.7	(7.5)1
176	95.0 - 101.0 % of mass 174	87.5	(98.3)1
177	5.0 - 9.0 % of mass 176	5.8	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-240523/2	041015-33.D	04/11/2015	00:06
	LCS 490-240523/3	041015-34.D	04/11/2015	00:32
	MB 490-240523/6	041015-37.D	04/11/2015	01:51
TB-03-040215	490-75933-9	041015-38.D	04/11/2015	02:17
SPRW-702-GW-040315	490-75933-11	041015-39.D	04/11/2015	02:44
BRMW-11-GW-HS-040215	490-75933-1	041015-51.D	04/11/2015	08:00
BRMW-11-GW-HS-040215-FD	490-75933-2	041015-52.D	04/11/2015	08:26
BRMW-04-GW-HS-040215	490-75933-6	041015-56.D	04/11/2015	10:11
SPRW-702-GW-040315 MS	490-75933-11 MS	041015-57.D	04/11/2015	10:37
SPRW-702-GW-040315 MSD	490-75933-11 MSD	041015-58.D	04/11/2015	11:04

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab File ID: 041015-59.D BFB Injection Date: 04/11/2015

Instrument ID: HP32 BFB Injection Time: 11:30

Analysis Batch No.: 240526

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.7	
75	30.0 - 60.0 % of mass 95	48.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.3	(0.3)1
174	50.0 - 120.00 % of mass 95	86.4	
175	5.0 - 9.0 % of mass 174	6.6	(7.6)1
176	95.0 - 101.0 % of mass 174	84.4	(97.6)1
177	5.0 - 9.0 % of mass 176	5.8	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-240526/2	041015-60.D	04/11/2015	11:57
	LCS 490-240526/3	041015-61.D	04/11/2015	12:23
	MB 490-240526/6	041015-64.D	04/11/2015	13:42
BRMW-04A-GW-HS-040215	490-75933-7	041015-71.D	04/11/2015	16:47
BRMW-01-GW-HS-040215	490-75933-8	041015-72.D	04/11/2015	17:14
SPRW-701-GW-040315	490-75933-10	041015-73.D	04/11/2015	17:41
SPRW-702-GW-040315-FD	490-75933-12	041015-74.D	04/11/2015	18:07
SPRW-302-GW-HS-040315	490-75933-13	041015-75.D	04/11/2015	18:34
SPRW-301-GW-HS-040315	490-75933-14	041015-76.D	04/11/2015	19:00
SPMW-4A-GW-HS-040315	490-75933-15	041015-77.D	04/11/2015	19:27
SPMW-4-GW-HS-040315	490-75933-16	041015-78.D	04/11/2015	19:53
SHMW-10-GW-HS-040315	490-75933-17	041015-79.D	04/11/2015	20:20
SPMW-14A-GW-HS-040315	490-75933-18	041015-80.D	04/11/2015	20:46
SPMW-2-GW-HS-040315	490-75933-19	041015-81.D	04/11/2015	21:13
SDMW-1-GW-HS-040315	490-75933-20	041015-82.D	04/11/2015	21:39
SFMW-6-GW-HS-040315	490-75933-21	041015-83.D	04/11/2015	22:05

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab File ID: 041415-01.D BFB Injection Date: 04/14/2015

Instrument ID: HP32 BFB Injection Time: 10:43

Analysis Batch No.: 241067

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.9	
75	30.0 - 60.0 % of mass 95	47.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.9	(1.0)1
174	50.0 - 120.00 % of mass 95	95.6	
175	5.0 - 9.0 % of mass 174	6.7	(7.0)1
176	95.0 - 101.0 % of mass 174	91.7	(95.9)1
177	5.0 - 9.0 % of mass 176	6.0	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-241067/2	041415-02.D	04/14/2015	11:16
	LCS 490-241067/3	041415-03.D	04/14/2015	11:42
	LCSD 490-241067/4	041415-04.D	04/14/2015	12:09
	MB 490-241067/7	041415-07.D	04/14/2015	13:28
BRMW-10-GW-HS-040215	490-75933-3	041415-08.D	04/14/2015	13:54
BRMW-05-GW-HS-040215	490-75933-4	041415-09.D	04/14/2015	14:21
BRMW-05A-GW-HS-040215	490-75933-5	041415-10.D	04/14/2015	14:47
SPRW-701-GW-040315 DL	490-75933-10 DL	041415-11.D	04/14/2015	15:14
SPRW-702-GW-040315 DL	490-75933-11 DL	041415-12.D	04/14/2015	15:41
SPRW-702-GW-040315-FD DL	490-75933-12 DL	041415-13.D	04/14/2015	16:07
SPRW-302-GW-HS-040315 DL	490-75933-13 DL	041415-14.D	04/14/2015	16:34
SPRW-303A-GW-HS-040315 DL	490-75933-23 DL	041415-15.D	04/14/2015	17:00
SPRW-303A-GW-HS-040315-FD DL	490-75933-24 DL	041415-16.D	04/14/2015	17:27
BRMW-11-GW-HS-040215-FD DL	490-75933-2 DL	041415-17.D	04/14/2015	17:53
BRMW-11-GW-HS-040215 DL	490-75933-1 DL	041415-18.D	04/14/2015	18:19

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Sample No.: ICIS 490-238076/10 Date Analyzed: 04/01/2015 16:09

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 040115-10.D Heated Purge: (Y/N) N

Calibration ID: 39104

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		450998	7.07	361878	11.55	196525	15.40
UPPER LIMIT		901996	7.57	723756	12.05	393050	15.90
LOWER LIMIT		225499	6.57	180939	11.05	98263	14.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-238076/15		459443	7.07	360643	11.54	195935	15.40
CCVIS 490-240821/2		456937	7.07	346676	11.55	190123	15.40

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Sample No.: CCVIS 490-240821/2 Date Analyzed: 04/13/2015 10:44

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 041315-02.D Heated Purge: (Y/N) N

Calibration ID: 39104

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		456937	7.07	346676	11.55	190123	15.40
UPPER LIMIT		913874	7.57	693352	12.05	380246	15.90
LOWER LIMIT		228469	6.57	173338	11.05	95062	14.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-240821/3		460376	7.07	343625	11.54	186386	15.40
LCSD 490-240821/4		468005	7.06	354713	11.55	197569	15.40
MB 490-240821/7		434964	7.07	326265	11.56	159163	15.41
490-75933-22	SPMW-11-GW-HS-040315	432681	7.07	319664	11.56	159012	15.41
490-75933-23	SPRW-303A-GW-HS-040315	420042	7.07	312605	11.56	152799	15.41
490-75933-24	SPRW-303A-GW-HS-040315-FD	418887	7.07	311096	11.56	150342	15.41
490-75933-22 MS	SPMW-11-GW-HS-040315 MS	462946	7.07	353203	11.54	194941	15.40
490-75933-22 MSD	SPMW-11-GW-HS-040315 MSD	459493	7.07	346614	11.54	194306	15.40

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Sample No.: ICIS 490-233414/7 Date Analyzed: 03/13/2015 13:38

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 031315-07.D Heated Purge: (Y/N) N

Calibration ID: 38060

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		408511	3.45	313426	5.71	183438	7.82
UPPER LIMIT		817022	3.95	626852	6.21	366876	8.32
LOWER LIMIT		204256	2.95	156713	5.21	91719	7.32
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-233414/12		394345	3.45	308116	5.72	176941	7.82
CCVIS 490-240523/2		406419	3.45	310372	5.72	159662	7.82
CCVIS 490-240526/2		392011	3.45	292464	5.72	147854	7.82
CCVIS 490-241067/2		421508	3.45	319375	5.72	172827	7.82

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Sample No.: CCVIS 490-240523/2 Date Analyzed: 04/11/2015 00:06

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 041015-33.D Heated Purge: (Y/N) N

Calibration ID: 38060

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		406419	3.45	310372	5.72	159662	7.82
UPPER LIMIT		812838	3.95	620744	6.22	319324	8.32
LOWER LIMIT		203210	2.95	155186	5.22	79831	7.32
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-240523/3		409010	3.45	308958	5.72	157444	7.82
MB 490-240523/6		361995	3.45	290944	5.72	145168	7.83
490-75933-9	TB-03-040215	370417	3.45	292037	5.72	140507	7.83
490-75933-11	SPRW-702-GW-040315	366418	3.45	295705	5.72	141226	7.83
490-75933-1	BRMW-11-GW-HS-040215	383359	3.45	279108	5.72	128236	7.83
490-75933-2	BRMW-11-GW-HS-040215-FD	385396	3.45	280708	5.72	132001	7.83
490-75933-6	BRMW-04-GW-HS-040215	368646	3.45	271577	5.72	126257	7.83
490-75933-11 MS	SPRW-702-GW-040315 MS	388041	3.45	286995	5.71	147977	7.83
490-75933-11 MSD	SPRW-702-GW-040315 MSD	395845	3.45	293460	5.71	151196	7.83

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Sample No.: CCVIS 490-240526/2 Date Analyzed: 04/11/2015 11:57

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 041015-60.D Heated Purge: (Y/N) N

Calibration ID: 38060

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		392011	3.45	292464	5.72	147854	7.82
UPPER LIMIT		784022	3.95	584928	6.22	295708	8.32
LOWER LIMIT		196006	2.95	146232	5.22	73927	7.32
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-240526/3		402226	3.45	298610	5.72	153166	7.82
MB 490-240526/6		366170	3.45	274745	5.72	129533	7.83
490-75933-7	BRMW-04A-GW-HS-040215	364041	3.45	272949	5.72	127702	7.83
490-75933-8	BRMW-01-GW-HS-040215	364678	3.45	272904	5.72	128301	7.83
490-75933-10	SPRW-701-GW-040315	369881	3.45	272232	5.72	125209	7.83
490-75933-12	SPRW-702-GW-040315-FD	373900	3.45	271722	5.72	128845	7.83
490-75933-13	SPRW-302-GW-HS-040315	369795	3.45	269244	5.72	127608	7.83
490-75933-14	SPRW-301-GW-HS-040315	372784	3.45	274023	5.72	127756	7.83
490-75933-15	SPMW-4A-GW-HS-040315	362432	3.45	276110	5.72	125098	7.83
490-75933-16	SPMW-4-GW-HS-040315	360418	3.45	271305	5.72	125125	7.83
490-75933-17	SHMW-10-GW-HS-040315	362938	3.45	270715	5.72	126336	7.83
490-75933-18	SPMW-14A-GW-HS-040315	360456	3.45	264292	5.72	124349	7.83
490-75933-19	SPMW-2-GW-HS-040315	364078	3.45	269931	5.72	126887	7.83
490-75933-20	SDMW-1-GW-HS-040315	361824	3.45	265874	5.72	121289	7.83
490-75933-21	SFMW-6-GW-HS-040315	358892	3.45	269894	5.72	122745	7.83

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Sample No.: CCVIS 490-241067/2 Date Analyzed: 04/14/2015 11:16

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 041415-02.D Heated Purge: (Y/N) N

Calibration ID: 38060

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		421508	3.45	319375	5.72	172827	7.82
UPPER LIMIT		843016	3.95	638750	6.22	345654	8.32
LOWER LIMIT		210754	2.95	159688	5.22	86414	7.32
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-241067/3		423934	3.45	324149	5.71	176222	7.83
LCSD 490-241067/4		419690	3.45	320842	5.72	173579	7.82
MB 490-241067/7		393259	3.45	291862	5.72	147448	7.83
490-75933-3	BRMW-10-GW-HS-040215	387124	3.45	290441	5.71	144258	7.83
490-75933-4	BRMW-05-GW-HS-040215	384838	3.45	284474	5.72	143229	7.82
490-75933-5	BRMW-05A-GW-HS-040215	385243	3.45	286666	5.72	144127	7.83
490-75933-10 DL	SPRW-701-GW-040315 DL	386655	3.45	289204	5.72	146243	7.83
490-75933-11 DL	SPRW-702-GW-040315 DL	386999	3.45	285509	5.72	144949	7.83
490-75933-12 DL	SPRW-702-GW-040315-FD DL	389524	3.45	289342	5.72	145660	7.83
490-75933-13 DL	SPRW-302-GW-HS-040315 DL	386501	3.45	285947	5.72	144014	7.82
490-75933-23 DL	SPRW-303A-GW-HS-040315 DL	382752	3.45	282902	5.72	142220	7.83
490-75933-24 DL	SPRW-303A-GW-HS-040315-FD DL	386459	3.45	284992	5.72	143274	7.83
490-75933-2 DL	BRMW-11-GW-HS-040215-FD DL	388949	3.45	282590	5.71	139628	7.83
490-75933-1 DL	BRMW-11-GW-HS-040215 DL	381137	3.45	273094	5.72	134868	7.83

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: BRMW-11-GW-HS-040215 Lab Sample ID: 490-75933-1

Matrix: Water Lab File ID: 041015-51.D

Analysis Method: 8260B Date Collected: 04/02/2015 16:55

Sample wt/vol: 10(mL) Date Analyzed: 04/11/2015 08:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 240523 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	32.9		1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		70-130
1868-53-7	Dibromofluoromethane (Surr)	92		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: BRMW-11-GW-HS-040215 DL | Lab Sample ID: 490-75933-1 DL

Matrix: Water | Lab File ID: 041415-18.D

Analysis Method: 8260B | Date Collected: 04/02/2015 16:55

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 18:19

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 241067 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	1840		20.0	2.80
79-01-6	Trichloroethene	2480		20.0	4.00

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	94		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-130
2037-26-5	Toluene-d8 (Surr)	106		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: BRMW-11-GW-HS-040215-FD Lab Sample ID: 490-75933-2

Matrix: Water Lab File ID: 041015-52.D

Analysis Method: 8260B Date Collected: 04/02/2015 17:00

Sample wt/vol: 10(mL) Date Analyzed: 04/11/2015 08:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 240523 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	33.0		1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
1868-53-7	Dibromofluoromethane (Surr)	91		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: BRMW-11-GW-HS-040215-FD | Lab Sample ID: 490-75933-2 DL

Matrix: Water | Lab File ID: 041415-17.D

Analysis Method: 8260B | Date Collected: 04/02/2015 17:00

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 17:53

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 241067 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	1670		20.0	2.80
79-01-6	Trichloroethene	2380		20.0	4.00

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: BRMW-10-GW-HS-040215 | Lab Sample ID: 490-75933-3

Matrix: Water | Lab File ID: 041415-08.D

Analysis Method: 8260B | Date Collected: 04/02/2015 17:05

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 13:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 241067 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	0.345	J	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: BRMW-05-GW-HS-040215 | Lab Sample ID: 490-75933-4

Matrix: Water | Lab File ID: 041415-09.D

Analysis Method: 8260B | Date Collected: 04/02/2015 17:10

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 14:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 241067 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	0.183	J	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: BRMW-05A-GW-HS-040215 | Lab Sample ID: 490-75933-5

Matrix: Water | Lab File ID: 041415-10.D

Analysis Method: 8260B | Date Collected: 04/02/2015 17:15

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 14:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 241067 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: BRMW-04-GW-HS-040215 | Lab Sample ID: 490-75933-6

Matrix: Water | Lab File ID: 041015-56.D

Analysis Method: 8260B | Date Collected: 04/02/2015 17:25

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 10:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240523 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	27.4		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	0.575	J	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: BRMW-04A-GW-HS-040215 | Lab Sample ID: 490-75933-7

Matrix: Water | Lab File ID: 041015-71.D

Analysis Method: 8260B | Date Collected: 04/02/2015 17:30

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 16:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240526 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	11.0		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	2.32		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: BRMW-01-GW-HS-040215 | Lab Sample ID: 490-75933-8

Matrix: Water | Lab File ID: 041015-72.D

Analysis Method: 8260B | Date Collected: 04/02/2015 17:40

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 17:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240526 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: TB-03-040215 | Lab Sample ID: 490-75933-9

Matrix: Water | Lab File ID: 041015-38.D

Analysis Method: 8260B | Date Collected: 04/02/2015 18:00

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 02:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240523 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		70-130
1868-53-7	Dibromofluoromethane (Surr)	94		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-701-GW-040315 | Lab Sample ID: 490-75933-10

Matrix: Water | Lab File ID: 041015-73.D

Analysis Method: 8260B | Date Collected: 04/03/2015 09:50

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 17:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240526 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.88		1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	10.1		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-701-GW-040315 DL | Lab Sample ID: 490-75933-10 DL

Matrix: Water | Lab File ID: 041415-11.D

Analysis Method: 8260B | Date Collected: 04/03/2015 09:50

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 15:14

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 241067 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	289		5.00	0.700

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-702-GW-040315 | Lab Sample ID: 490-75933-11

Matrix: Water | Lab File ID: 041015-39.D

Analysis Method: 8260B | Date Collected: 04/03/2015 09:50

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 02:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240523 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	11.3		1.00	0.210
75-35-4	1,1-Dichloroethene	0.351	J	1.00	0.250
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	29.2		1.00	0.200
75-01-4	Vinyl chloride	0.308	J	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-702-GW-040315 DL | Lab Sample ID: 490-75933-11 DL

Matrix: Water | Lab File ID: 041415-12.D

Analysis Method: 8260B | Date Collected: 04/03/2015 09:50

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 15:41

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 241067 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	262		5.00	0.700

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-702-GW-040315-FD | Lab Sample ID: 490-75933-12

Matrix: Water | Lab File ID: 041015-74.D

Analysis Method: 8260B | Date Collected: 04/03/2015 10:50

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 18:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240526 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	11.4		1.00	0.210
75-35-4	1,1-Dichloroethene	0.333	J	1.00	0.250
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	28.2		1.00	0.200
75-01-4	Vinyl chloride	0.308	J	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
1868-53-7	Dibromofluoromethane (Surr)	94		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-702-GW-040315-FD DL Lab Sample ID: 490-75933-12 DL

Matrix: Water Lab File ID: 041415-13.D

Analysis Method: 8260B Date Collected: 04/03/2015 10:50

Sample wt/vol: 10(mL) Date Analyzed: 04/14/2015 16:07

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 241067 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	255		5.00	0.700

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-302-GW-HS-040315 | Lab Sample ID: 490-75933-13

Matrix: Water | Lab File ID: 041015-75.D

Analysis Method: 8260B | Date Collected: 04/03/2015 13:00

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 18:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240526 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	142		1.00	0.210
75-35-4	1,1-Dichloroethene	1.59		1.00	0.250
127-18-4	Tetrachloroethene	24.1		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	0.397	J	1.00	0.230
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-302-GW-HS-040315 DL | Lab Sample ID: 490-75933-13 DL

Matrix: Water | Lab File ID: 041415-14.D

Analysis Method: 8260B | Date Collected: 04/03/2015 13:00

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 16:34

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 241067 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	199		5.00	1.00

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-301-GW-HS-040315 | Lab Sample ID: 490-75933-14

Matrix: Water | Lab File ID: 041015-76.D

Analysis Method: 8260B | Date Collected: 04/03/2015 13:30

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 19:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240526 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	66.9		1.00	0.210
75-35-4	1,1-Dichloroethene	1.76		1.00	0.250
127-18-4	Tetrachloroethene	11.1		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	0.291	J	1.00	0.230
79-01-6	Trichloroethene	158		1.00	0.200
75-01-4	Vinyl chloride	18.9		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		70-130
1868-53-7	Dibromofluoromethane (Surr)	93		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPMW-4A-GW-HS-040315 | Lab Sample ID: 490-75933-15

Matrix: Water | Lab File ID: 041015-77.D

Analysis Method: 8260B | Date Collected: 04/03/2015 14:25

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 19:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240526 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	39.2		1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	4.14		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	0.279	J	1.00	0.230
79-01-6	Trichloroethene	32.0		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPMW-4-GW-HS-040315 | Lab Sample ID: 490-75933-16

Matrix: Water | Lab File ID: 041015-78.D

Analysis Method: 8260B | Date Collected: 04/03/2015 14:30

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 19:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240526 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	0.320	J	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SHMW-10-GW-HS-040315 | Lab Sample ID: 490-75933-17

Matrix: Water | Lab File ID: 041015-79.D

Analysis Method: 8260B | Date Collected: 04/03/2015 14:55

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 20:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240526 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	0.820	J	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	58.7		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	34.4		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
1868-53-7	Dibromofluoromethane (Surr)	94		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPMW-14A-GW-HS-040315 | Lab Sample ID: 490-75933-18

Matrix: Water | Lab File ID: 041015-80.D

Analysis Method: 8260B | Date Collected: 04/03/2015 15:40

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 20:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240526 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPMW-2-GW-HS-040315 | Lab Sample ID: 490-75933-19

Matrix: Water | Lab File ID: 041015-81.D

Analysis Method: 8260B | Date Collected: 04/03/2015 16:00

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 21:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240526 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	0.652	J	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	6.32		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	10.2		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SDMW-1-GW-HS-040315 | Lab Sample ID: 490-75933-20

Matrix: Water | Lab File ID: 041015-82.D

Analysis Method: 8260B | Date Collected: 04/03/2015 16:30

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 21:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240526 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	5.95		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	6.10		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SFMW-6-GW-HS-040315 | Lab Sample ID: 490-75933-21

Matrix: Water | Lab File ID: 041015-83.D

Analysis Method: 8260B | Date Collected: 04/03/2015 16:50

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 22:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240526 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	2.53		1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	2.29		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.03		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPMW-11-GW-HS-040315 Lab Sample ID: 490-75933-22

Matrix: Water Lab File ID: 041315-08.D

Analysis Method: 8260B Date Collected: 04/03/2015 17:05

Sample wt/vol: 10(mL) Date Analyzed: 04/13/2015 13:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 240821 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.10		1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	70.4		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	122		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-303A-GW-HS-040315 | Lab Sample ID: 490-75933-23

Matrix: Water | Lab File ID: 041315-09.D

Analysis Method: 8260B | Date Collected: 04/03/2015 11:50

Sample wt/vol: 10(mL) | Date Analyzed: 04/13/2015 14:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240821 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	96.3		1.00	0.210
75-35-4	1,1-Dichloroethene	3.55		1.00	0.250
127-18-4	Tetrachloroethene	30.9		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	0.397	J	1.00	0.230
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-303A-GW-HS-040315 DL | Lab Sample ID: 490-75933-23 DL

Matrix: Water | Lab File ID: 041415-15.D

Analysis Method: 8260B | Date Collected: 04/03/2015 11:50

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 17:00

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 241067 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	431		5.00	1.00

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-303A-GW-HS-040315-FD | Lab Sample ID: 490-75933-24

Matrix: Water | Lab File ID: 041315-10.D

Analysis Method: 8260B | Date Collected: 04/03/2015 11:55

Sample wt/vol: 10(mL) | Date Analyzed: 04/13/2015 14:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240821 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	95.1		1.00	0.210
75-35-4	1,1-Dichloroethene	3.46		1.00	0.250
127-18-4	Tetrachloroethene	32.8		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	0.382	J	1.00	0.230
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-303A-GW-HS-040315-FD Lab Sample ID: 490-75933-24 DL

Matrix: Water Lab File ID: 041415-16.D

Analysis Method: 8260B Date Collected: 04/03/2015 11:55

Sample wt/vol: 10(mL) Date Analyzed: 04/14/2015 17:27

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 241067 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	416		5.00	1.00

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-238076/5	040115-05.D
Level 2	STD001 490-238076/6	040115-06.D
Level 3	STD002 490-238076/7	040115-07.D
Level 4	STD010 490-238076/8	040115-08.D
Level 5	STD020 490-238076/9	040115-09.D
Level 6	ICIS 490-238076/10	040115-10.D
Level 7	STD100 490-238076/11	040115-11.D
Level 8	STD200 490-238076/12	040115-12.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2634 0.2518	0.2549 0.2349	0.2502 0.2243	0.2465	0.2481	Ave		0.2468				4.9		15.0			
Chloromethane	0.3185 0.2732	0.3060 0.2554	0.2843 0.2553	0.2722	0.2641	Ave		0.2786			0.1000	8.3		15.0			
Vinyl chloride	0.3390 0.2911	0.3065 0.2746	0.2959 0.2648	0.2858	0.2882	Ave		0.2932				7.6		15.0			
Butadiene	0.3057 0.2597	0.2798 0.2488	0.2577 0.2386	0.2527	0.2607	Ave		0.2630				7.9		15.0			
Bromomethane	0.1903 0.1623	0.1544 0.1543	0.1532 0.1535	0.1543	0.1476	Ave		0.1587				8.4		15.0			
Chloroethane	0.2054 0.1730	0.2014 0.1628	0.1909 0.1561	0.1753	0.1741	Ave		0.1799				9.8		15.0			
Dichlorofluoromethane	0.5448 0.4311	0.4807 0.3995	0.4544 0.3800	0.4295	0.4305	Ave		0.4438				11.5		15.0			
Trichlorofluoromethane	0.4309 0.3788	0.4125 0.3524	0.3975 0.3382	0.3776	0.3780	Ave		0.3832				7.9		15.0			
Ethanol	+++++ 0.0007	0.0006 0.0007	0.0007 0.0006	0.0005	0.0007	Ave		0.0006				9.1		15.0			
Diethyl ether	0.1409 0.1387	0.1516 0.1345	0.1491 0.1296	0.1357	0.1405	Ave		0.1401				5.2		15.0			
Acrolein	+++++ 0.0110	0.0143 0.0111	0.0109 0.0114	0.0097	0.0098	Ave		0.0112				13.7		15.0			
1,1-Dichloroethene	0.2712 0.2203	0.2449 0.2069	0.2261 0.1994	0.2171	0.2133	Ave		0.2249				10.3		15.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.2667 0.2366	0.2562 0.2181	0.2494 0.2063	0.2368	0.2372	Ave		0.2384				8.2		15.0			
Acetone	0.0220 0.0097	0.0170 0.0084	0.0113 0.0087	0.0095	0.0099	Lin2	0.0337	0.0090							0.9910		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Iodomethane	0.2629 0.3192	0.2772 0.2953	0.2840 0.2784	0.2959	0.2977	Ave		0.2888				5.9		15.0			
Isopropyl alcohol	0.0074 0.0045	0.0069 0.0044	0.0056 0.0041	0.0036	0.0046	Lin1	0.0199	0.0042							0.9970		0.9900
Carbon disulfide	0.7128 0.6098	0.6330 0.5761	0.6229 0.5525	0.5787	0.5894	Ave		0.6094				8.1		15.0			
Acetonitrile	0.0567 0.0461	0.0481 0.0438	0.0470 0.0408	0.0444	0.0452	Ave		0.0465				10.1		15.0			
3-Chloro-1-propene	0.1419 0.1324	0.1419 0.1309	0.1416 0.1235	0.1306	0.1287	Ave		0.1339				5.2		15.0			
Methyl acetate	0.1315 0.0881	0.1098 0.0833	0.1029 0.0776	0.0867	0.0909	Lin2	0.1197	0.0853							0.9970		0.9900
Methylene Chloride	0.4866 0.2244	0.3408 0.2121	0.2900 0.2030	0.2360	0.2257	Lin2	0.1345	0.2154							0.9980		0.9900
tert-Butyl alcohol (TBA)	0.0072 0.0077	0.0075 0.0073	0.0080 0.0069	0.0064	0.0078	Ave		0.0074				7.0		15.0			
Acrylonitrile	0.0521 0.0436	0.0453 0.0416	0.0468 0.0391	0.0420	0.0436	Ave		0.0443				8.9		15.0			
trans-1,2-Dichloroethene	0.3468 0.3083	0.3297 0.2948	0.3175 0.2829	0.3036	0.3046	Ave		0.3110				6.5		15.0			
Methyl tert-butyl ether	0.4963 0.4421	0.4687 0.4207	0.4706 0.3976	0.4196	0.4453	Ave		0.4451				7.3		15.0			
Hexane	0.4518 0.3655	0.3977 0.3436	0.3925 0.3272	0.3573	0.3593	Ave		0.3744				10.4		15.0			
1,1-Dichloroethane	0.5038 0.4264	0.4829 0.4026	0.4594 0.3814	0.4238	0.4230	Ave		0.4379			0.1000	9.4		15.0			
Vinyl acetate	+++++ 0.4070	0.4267 0.4075	0.4416 0.3665	0.4024	0.4031	Ave		0.4078				5.7		15.0			
Diisopropyl ether	0.7927 0.6501	0.6950 0.6207	0.6724 0.5771	0.6351	0.6469	Ave		0.6612				9.6		15.0			
Chloroprene	0.4307 0.3550	0.3969 0.3354	0.3521 0.3208	0.3426	0.3463	Ave		0.3600				10.0		15.0			
Ethyl tert-butyl ether	0.5008 0.5439	0.5821 0.5232	0.5802 0.5003	0.5229	0.5407	Ave		0.5368				5.9		15.0			
2,2-Dichloropropane	0.4021 0.3525	0.3948 0.3370	0.3771 0.3279	0.3456	0.3427	Ave		0.3600				7.7		15.0			
cis-1,2-Dichloroethene	0.3644 0.3566	0.3847 0.3426	0.3793 0.3305	0.3492	0.3516	Ave		0.3574				5.1		15.0			
2-Butanone (MEK)	0.0146 0.0132	0.0143 0.0122	0.0148 0.0120	0.0126	0.0134	Ave		0.0134				8.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propionitrile	0.0115 0.0150	0.0179 0.0146	0.0161 0.0136	0.0139	0.0151	Ave		0.0147				12.7		15.0			
Ethyl acetate	0.0970 0.1000	0.1093 0.0954	0.1073 0.0882	0.0986	0.1006	Ave		0.0996				6.7		15.0			
Bromochloromethane	0.1432 0.1323	0.1436 0.1201	0.1392 0.1145	0.1307	0.1302	Ave		0.1317				7.9		15.0			
Methacrylonitrile	0.0573 0.0707	0.0716 0.0665	0.0701 0.0623	0.0681	0.0707	Ave		0.0672				7.4		15.0			
Tetrahydrofuran	+++++ 0.0308	0.0508 0.0297	0.0438 0.0286	0.0314	0.0312	Lin2	0.0446	0.0298							0.9970		0.9900
Chloroform	0.6342 0.4056	0.5233 0.3784	0.4625 0.3634	0.4107	0.4056	Lin2	0.1254	0.3902							0.9980		0.9900
1,1,1-Trichloroethane	0.4032 0.3535	0.3603 0.3442	0.3596 0.3358	0.3425	0.3426	Ave		0.3552				6.0		15.0			
Cyclohexane	0.3873 0.3910	0.3877 0.3775	0.3589 0.3902	0.3545	0.3697	Ave		0.3771				3.9		15.0			
1,1-Dichloropropene	0.3287 0.3239	0.3128 0.3199	0.2986 0.3131	0.2956	0.3043	Ave		0.3121				3.8		15.0			
Carbon tetrachloride	0.3152 0.3166	0.3042 0.3098	0.2891 0.3007	0.2905	0.2999	Ave		0.3032				3.4		15.0			
Isobutanol	+++++ 0.0030	0.0030 0.0030	0.0034 0.0030	0.0023	0.0029	Ave		0.0029				11.4		15.0			
Benzene	1.0415 0.9528	0.9393 0.9104	0.9154 0.8515	0.9099	0.9265	Ave		0.9309				5.8		15.0			
1,2-Dichloroethane	0.2799 0.2573	0.2614 0.2502	0.2619 0.2426	0.2481	0.2523	Ave		0.2567				4.5		15.0			
t-Amyl alcohol	+++++ 0.0058	0.0045 0.0056	0.0049 0.0055	0.0043	0.0054	Ave		0.0052				11.6		15.0			
Tert-amyl methyl ether	0.3872 0.4593	0.3864 0.4512	0.4157 0.4388	0.4107	0.4378	Ave		0.4234				6.6		15.0			
Heptane	0.3703 0.3218	0.2714 0.3097	0.2952 0.3108	0.2834	0.2959	Ave		0.3073				9.8		15.0			
n-Butanol	+++++ 0.0018	0.0012 0.0018	0.0016 0.0018	0.0011	0.0015	Lin1	-0.023	0.0018							0.9960		0.9900
Trichloroethene	0.2591 0.2743	0.2636 0.2653	0.2630 0.2682	0.2522	0.2592	Ave		0.2631				2.5		15.0			
Ethyl acrylate	+++++ 0.1368	+++++ 0.1417	0.0644 0.1433	0.1041	0.1193	Lin2	-0.149	0.1353							0.9930		0.9900
Methylcyclohexane	0.3922 0.4657	0.3755 0.4433	0.3730 0.4366	0.4131	0.4365	Ave		0.4170				8.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloropropane	0.2348 0.2234	0.2106 0.2182	0.2202 0.2160	0.2162	0.2201	Ave		0.2199				3.2		15.0			
Dibromomethane	0.1101 0.1108	0.1191 0.1075	0.1100 0.1062	0.1045	0.1085	Ave		0.1096				4.0		15.0			
Methyl methacrylate	0.0833 0.1082	0.0935 0.1071	0.0882 0.1052	0.0883	0.1013	Ave		0.0969				10.1		15.0			
1,4-Dioxane	+++++ 0.0009	+++++ 0.0009	0.0005 0.0008	0.0006	0.0008	Lin1	-0.014	0.0008							0.9930		0.9900
Bromodichloromethane	0.2853 0.2874	0.2919 0.2840	0.2741 0.2806	0.2694	0.2732	Ave		0.2807				2.8		15.0			
2-Nitropropane	0.0359 0.0305	0.0293 0.0318	0.0282 0.0330	0.0249	0.0267	Ave		0.0300				11.8		15.0			
2-Chloroethyl vinyl ether	+++++ 0.1141	0.0725 0.1159	0.0808 0.1186	0.0922	0.1029	Lin2	-0.043	0.1098							0.9920		0.9900
cis-1,3-Dichloropropene	0.3615 0.4241	0.3632 0.4264	0.3685 0.4300	0.3820	0.4066	Ave		0.3953				7.5		15.0			
4-Methyl-2-pentanone (MIBK)	0.0295 0.0519	0.0392 0.0517	0.0396 0.0514	0.0446	0.0496	Lin2	-0.053	0.0496							0.9960		0.9900
Toluene	1.4662 1.3575	1.4002 1.3070	1.3516 1.2161	1.3540	1.3529	Ave		1.3507				5.3		15.0			
trans-1,3-Dichloropropene	0.2600 0.3369	0.2710 0.3419	0.2907 0.3435	0.2958	0.3167	Ave		0.3071				10.6		15.0			
Ethyl methacrylate	0.0928 0.2312	0.1381 0.2362	0.1798 0.2345	0.1773	0.2143	Lin2	-0.068	0.2194							0.9910		0.9900
1,1,2-Trichloroethane	0.2036 0.2079	0.2241 0.2026	0.2199 0.2001	0.2105	0.2070	Ave		0.2095				4.0		15.0			
Tetrachloroethene	0.4103 0.3858	0.3833 0.3758	0.3843 0.3731	0.3791	0.3777	Ave		0.3837				3.0		15.0			
1,3-Dichloropropane	0.3279 0.3501	0.3420 0.3412	0.3437 0.3306	0.3421	0.3500	Ave		0.3410				2.4		15.0			
2-Hexanone	+++++ 0.0466	0.0192 0.0464	0.0231 0.0461	0.0382	0.0429	Lin2	-0.145	0.0445							0.9910		0.9900
Chlorodibromomethane	0.1710 0.1944	0.1839 0.1945	0.1663 0.1967	0.1792	0.1877	Ave		0.1842				6.1		15.0			
n-Butyl acetate	+++++ 0.1313	+++++ 0.1485	0.0521 0.1416	0.0851	0.1444	Lin1	-0.235	0.1440							0.9960		0.9900
1,2-Dibromoethane (EDB)	0.1786 0.1994	0.1764 0.1966	0.1800 0.1954	0.1898	0.1967	Ave		0.1891				5.0		15.0			
1-Chlorohexane	0.3619 0.3783	0.3210 0.3672	0.3166 0.3617	0.3299	0.3491	Ave		0.3482				6.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Chlorobenzene	0.9518 0.8782	0.8942 0.8451	0.9260 0.8020	0.8867	0.8749	Ave		0.8824			0.3000	5.2		15.0			
1,1,1,2-Tetrachloroethane	0.2969 0.2996	0.2912 0.2973	0.2910 0.2943	0.2901	0.2945	Ave		0.2944				1.2		15.0			
Ethylbenzene	1.2884 1.4968	1.2002 1.4231	1.2937 1.3029	1.4183	1.4626	Ave		1.3607				7.6		15.0			
m,p-Xylene	1.0850 1.1728	1.0008 1.1257	0.9386 1.0461	1.1044	1.1335	Ave		1.0759				7.2		15.0			
o-Xylene	0.9377 1.1837	0.9728 1.1518	0.9403 1.0790	1.1044	1.1468	Ave		1.0646				9.4		15.0			
Styrene	0.6174 0.9769	0.7164 0.9419	0.7237 0.8815	0.8879	0.9283	Lin2	-0.166	0.9108							0.9950		0.9900
Bromoform	0.1069 0.1311	0.1130 0.1329	0.1147 0.1343	0.1184	0.1244	Ave		0.1220			0.1000	8.4		15.0			
Isopropylbenzene	1.1095 1.4992	1.0553 1.4195	1.1421 1.3208	1.3365	1.4252	Ave		1.2885				12.8		15.0			
Cyclohexanone	+++++ 0.0058	0.0014 0.0050	0.0020 0.0057	0.0036	0.0049	Lin1	-0.060	0.0055							0.9940		0.9900
Bromobenzene	1.1499 0.9175	0.8802 0.9134	0.9613 0.9440	0.8192	0.8629	Ave		0.9311				10.7		15.0			
1,1,2,2-Tetrachloroethane	0.3566 0.4039	0.3834 0.3953	0.3951 0.3982	0.3824	0.3935	Ave		0.3885			0.3000	3.8		15.0			
1,2,3-Trichloropropane	0.0613 0.1171	0.1158 0.1120	0.1045 0.1142	0.1036	0.1148	Lin2	-0.022	0.1154							0.9900		0.9900
trans-1,4-Dichloro-2-butene	+++++ 0.0863	0.0238 0.0953	0.0265 0.1003	0.0561	0.0718	Lin1	-0.127	0.0963							0.9930		0.9900
N-Propylbenzene	2.0576 3.1272	2.2755 2.9160	2.3879 2.7569	2.7999	2.9094	Ave		2.6538				14.0		15.0			
2-Chlorotoluene	2.2650 1.8639	1.8646 1.7776	1.7419 1.7496	1.7722	1.7877	Ave		1.8528				9.3		15.0			
1,3,5-Trimethylbenzene	1.7509 2.2170	1.8047 2.1350	1.7967 2.0734	2.0411	2.1071	Ave		1.9907				9.0		15.0			
4-Chlorotoluene	2.1745 2.1598	1.8791 2.0801	1.8863 2.0392	2.0324	2.0390	Ave		2.0363				5.4		15.0			
tert-Butylbenzene	1.5087 1.9406	1.3736 1.8746	1.4346 1.8517	1.6684	1.7797	Ave		1.6790				12.9		15.0			
1,2,4-Trimethylbenzene	1.8014 2.2591	1.6977 2.1676	1.6997 2.0924	2.0670	2.1383	Ave		1.9904				11.2		15.0			
sec-Butylbenzene	2.2902 2.7889	1.9887 2.6260	2.0844 2.4847	2.4459	2.5497	Ave		2.4073				11.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,3-Dichlorobenzene	1.0726 1.2844	1.1143 1.2613	1.1308 1.2539	1.1696	1.2089	Ave		1.1870				6.5		15.0			
p-Isopropyltoluene	1.5985 2.4036	1.7508 2.2968	1.8527 2.1681	2.1175	2.2327	Ave		2.0526				13.9		15.0			
1,4-Dichlorobenzene	1.4854 1.3302	1.3569 1.2721	1.2951 1.2363	1.2860	1.2965	Ave		1.3198				5.8		15.0			
1,2,3-Trimethylbenzene	2.0979 2.2514	2.0379 2.1458	1.9631 2.0125	2.0847	2.1423	Ave		2.0919				4.3		15.0			
Benzyl chloride	+++++ 0.3632	+++++ 0.3797	0.1707 0.3798	0.2563	0.3133	Lin1	-0.602	0.3792							0.9980		0.9900
1,2-Dichlorobenzene	1.0326 1.1929	1.1086 1.1607	1.0641 1.1149	1.1106	1.1530	Ave		1.1172				4.7		15.0			
n-Butylbenzene	1.0623 1.9127	1.2797 1.8661	1.2810 1.8299	1.6041	1.7135	Lin2	-0.399	1.7526							0.9910		0.9900
1,2-Dibromo-3-Chloropropane	+++++ 0.0689	0.0109 0.0675	0.0413 0.0737	0.0561	0.0636	Lin2	-0.057	0.0684							0.9960		0.9900
1,3,5-Trichlorobenzene	0.6674 0.8454	0.7134 0.8532	0.6953 0.8934	0.7416	0.7813	Ave		0.7739				10.7		15.0			
1,2,4-Trichlorobenzene	0.4109 0.7055	0.5347 0.7047	0.5374 0.7449	0.5759	0.6281	Lin2	-0.138	0.6687							0.9920		0.9900
Hexachlorobutadiene	0.3067 0.2891	0.2928 0.2858	0.2593 0.3200	0.2598	0.2552	Ave		0.2836				8.4		15.0			
Naphthalene	+++++ 1.2994	0.8484 1.2282	0.8928 1.2451	0.9231	1.1509	Lin1	-0.663	1.2437							0.9980		0.9900
1,2,3-Trichlorobenzene	0.3019 0.6082	0.4409 0.6012	0.5013 0.6085	0.5159	0.5481	Lin2	-0.142	0.5810							0.9970		0.9900
Dibromofluoromethane (Surr)	0.2350 0.2261	0.2297 0.2212	0.2304 0.2176	0.2188	0.2190	Ave		0.2247				2.9		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2282 0.2217	0.2317 0.2196	0.2353 0.2125	0.2194	0.2223	Ave		0.2238				3.3		15.0			
Toluene-d8 (Surr)	1.2731 1.2527	1.2777 1.2298	1.2899 1.2376	1.2840	1.2569	Ave		1.2627				1.7		15.0			
4-Bromofluorobenzene (Surr)	0.8318 0.8461	0.8318 0.8393	0.8182 0.8784	0.8095	0.8163	Ave		0.8339				2.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-238076/5	040115-05.D
Level 2	STD001 490-238076/6	040115-06.D
Level 3	STD002 490-238076/7	040115-07.D
Level 4	STD010 490-238076/8	040115-08.D
Level 5	STD020 490-238076/9	040115-09.D
Level 6	ICIS 490-238076/10	040115-10.D
Level 7	STD100 490-238076/11	040115-11.D
Level 8	STD200 490-238076/12	040115-12.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	2140 227146	4317 454311	8571 909640	43293	88628	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chloromethane	FB	Ave	2588 246396	5182 493759	9739 1035054	47807	94341	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Vinyl chloride	FB	Ave	2755 262540	5190 530983	10137 1073740	50192	102939	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Butadiene	FB	Ave	2484 234279	4738 481027	8827 967569	44376	93103	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Bromomethane	FB	Ave	1546 146413	2614 298438	5248 622222	27093	52716	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chloroethane	FB	Ave	1669 156082	3411 314763	6538 633029	30782	62193	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Dichlorofluoromethane	FB	Ave	4427 388807	8141 772459	15565 1540826	75423	153751	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Trichlorofluoromethane	FB	Ave	3501 341653	6985 681484	13616 1371375	66313	134996	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethanol	FB	Ave	+++++ 24626	398 51896	954 103352	3756	9440	+++++ 2000	40.0 4000	80.0 8000	400	800
Diethyl ether	FB	Ave	1145 125116	2568 259986	5107 525671	23828	50167	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Acrolein	FB	Ave	+++++ 24811	606 53429	936 116006	4253	8765	+++++ 125	2.50 250	5.00 500	25.0	50.0
1,1-Dichloroethene	FB	Ave	2204 198696	4147 400141	7745 808672	38133	76188	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	2167 213424	4339 421702	8545 836559	41578	84720	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Acetone	FB	Lin2	895 43650	1440 81339	1938 175607	8355	17654	2.50 250	5.00 500	10.0 1000	50.0	100
Iodomethane	FB	Ave	2136 287941	4694 570942	9729 1128702	51970	106340	0.500 50.0	1.00 100	2.00 200	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Isopropyl alcohol	FB	Lin1	602 40855	1169 84593	1933 166550	6260	16278	5.00 500	10.0 1000	20.0 2000	100	200
Carbon disulfide	FB	Ave	5792 550065	10720 1113984	21338 2240373	101621	210509	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Acetonitrile	FB	Ave	4607 415449	8150 846586	16099 1654632	77919	161577	5.00 500	10.0 1000	20.0 2000	100	200
3-Chloro-1-propene	FB	Ave	1153 119404	2403 253181	4850 500676	22936	45980	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Methyl acetate	FB	Lin2	5342 397217	9296 805768	17629 1573519	76113	162261	2.50 250	5.00 500	10.0 1000	50.0	100
Methylene Chloride	FB	Lin2	3954 202431	5771 410209	9933 823183	41440	80616	0.500 50.0	1.00 100	2.00 200	10.0	20.0
tert-Butyl alcohol (TBA)	FB	Ave	586 69694	1264 140720	2738 278905	11316	27944	5.00 500	10.0 1000	20.0 2000	100	200
Acrylonitrile	FB	Ave	4231 392990	7679 804196	16034 1583686	73709	155902	5.00 500	10.0 1000	20.0 2000	100	200
trans-1,2-Dichloroethene	FB	Ave	2818 278101	5583 570108	10877 1146936	53313	108792	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Methyl tert-butyl ether	FB	Ave	4033 398755	7937 813399	16122 1612162	73685	159040	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Hexane	FB	Ave	3671 329707	6735 664456	13446 1326862	62746	128325	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1-Dichloroethane	FB	Ave	4094 384644	8177 778573	15738 1546624	74423	151080	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Vinyl acetate	FB	Ave	+++++ 734180	14451 1576044	30253 2971987	141315	287931	+++++ 100	2.00 200	4.00 400	20.0	40.0
Diisopropyl ether	FB	Ave	6441 586351	11770 1200122	23034 2339772	111526	231053	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chloroprene	FB	Ave	3500 320202	6721 648543	12061 1300804	60168	123672	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethyl tert-butyl ether	FB	Ave	4069 490552	9857 1011697	19876 2028666	91820	193126	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	3267 317940	6686 651680	12917 1329447	60682	122414	0.500 50.0	1.00 100	2.00 200	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	2961 321669	6515 662480	12994 1340010	61330	125586	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Butanone (MEK)	FB	Ave	593 59313	1214 117644	2540 243431	11104	23982	2.50 250	5.00 500	10.0 1000	50.0	100
Propionitrile	FB	Ave	936 135536	3039 283202	5513 551921	24472	54030	5.00 500	10.0 1000	20.0 2000	100	200
Ethyl acetate	FB	Ave	1577 180362	3703 369010	7354 715308	34641	71840	1.00 100	2.00 200	4.00 400	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Bromochloromethane	FB	Ave	1164 119343	2431 232226	4768 464336	22945	46515	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Methacrylonitrile	FB	Ave	4658 637643	12129 1286572	24021 2528011	119553	252560	5.00 500	10.0 1000	20.0 2000	100	200
Tetrahydrofuran	FB	Lin2	+++++ 55639	1719 114796	3004 232001	11021	22311	+++++ 100	2.00 200	4.00 400	20.0	40.0
Chloroform	FB	Lin2	5153 365837	8861 731603	15842 1473385	72124	144870	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	3276 318824	6101 665654	12318 1361720	60137	122383	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Cyclohexane	FB	Ave	3147 352680	6565 729960	12293 1582268	62255	132048	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1-Dichloropropene	FB	Ave	2671 292178	5297 618543	10230 1269714	51905	108700	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Carbon tetrachloride	FB	Ave	2561 285575	5152 598964	9902 1219079	51012	107109	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Isobutanol	FB	Ave	+++++ 68395	1278 144484	2931 301078	10043	25852	+++++ 1250	25.0 2500	50.0 5000	250	500
Benzene	FB	Ave	8463 859466	15906 1760454	31359 3452712	159785	330921	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2-Dichloroethane	FB	Ave	2274 232051	4426 483761	8973 983650	43571	90109	0.500 50.0	1.00 100	2.00 200	10.0	20.0
t-Amyl alcohol	FB	Ave	+++++ 52489	759 109046	1684 224034	7518	19397	+++++ 500	10.0 1000	20.0 2000	100	200
Tert-amyl methyl ether	FB	Ave	3146 414301	6544 872538	14241 1779070	72117	156384	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Heptane	FB	Ave	3009 290254	4596 598938	10112 1260169	49773	105693	0.500 50.0	1.00 100	2.00 200	10.0	20.0
n-Butanol	FB	Lin1	+++++ 40603	509 86942	1397 180695	4909	13268	+++++ 1250	25.0 2500	50.0 5000	250	500
Trichloroethene	FB	Ave	2105 247434	4464 512986	9009 1087654	44297	92588	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethyl acrylate	FB	Lin2	+++++ 123385	+++++ 274075	2207 580839	18277	42626	+++++ 50.0	+++++ 100	2.00 200	10.0	20.0
Methylcyclohexane	FB	Ave	3187 420099	6359 857280	12778 1770277	72536	155903	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2-Dichloropropane	FB	Ave	1908 201504	3566 421962	7542 875667	37966	78604	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Dibromomethane	FB	Ave	895 99955	2017 207892	3767 430425	18345	38764	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Methyl methacrylate	FB	Ave	1354 195163	3168 414074	6042 853014	31018	72331	1.00 100	2.00 200	4.00 400	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	FB	Lin1	+++++ 16058	+++++ 34958	366 63112	2081	5828	+++++ 1000	+++++ 2000	40.0 4000	200	400
Bromodichloromethane	FB	Ave	2318 259261	4944 549126	9388 1137729	47305	97573	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Nitropropane	FB	Ave	584 54991	993 122800	1934 267408	8752	19060	1.00 100	2.00 200	4.00 400	20.0	40.0
2-Chloroethyl vinyl ether	CBZ	Lin2	+++++ 82568	933 179151	2107 380451	12314	28570	+++++ 50.0	1.00 100	2.00 200	10.0	20.0
cis-1,3-Dichloropropene	CBZ	Ave	2255 306967	4672 659076	9613 1378915	51019	112863	0.500 50.0	1.00 100	2.00 200	10.0	20.0
4-Methyl-2-pentanone (MIBK)	CBZ	Lin2	921 187967	2524 399502	5161 823780	29810	68834	2.50 250	5.00 500	10.0 1000	50.0	100
Toluene	CBZ	Ave	9147 982513	18010 2020136	35255 3899685	180817	375563	0.500 50.0	1.00 100	2.00 200	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	1622 243804	3486 528515	7582 1101638	39508	87927	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethyl methacrylate	CBZ	Lin2	579 167362	1776 365098	4690 751987	23671	59500	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	1270 150474	2883 313151	5736 641695	28109	57450	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Tetrachloroethene	CBZ	Ave	2560 279258	4930 580791	10024 1196398	50622	104841	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	2046 253358	4399 527365	8966 1060137	45681	97164	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Hexanone	CBZ	Lin2	+++++ 168782	1236 358898	3013 738568	25530	59598	+++++ 250	5.00 500	10.0 1000	50.0	100
Chlorodibromomethane	CBZ	Ave	1067 140709	2366 300624	4339 630755	23929	52099	0.500 50.0	1.00 100	2.00 200	10.0	20.0
n-Butyl acetate	FB	Lin1	+++++ 118422	+++++ 287106	1785 574261	14948	51586	+++++ 50.0	+++++ 100	2.00 200	10.0	20.0
1,2-Dibromoethane (EDB)	CBZ	Ave	1114 144306	2269 303827	4694 626700	25341	54596	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1-Chlorohexane	FB	Ave	2941 341217	5436 710052	10847 1466413	57925	124695	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chlorobenzene	CBZ	Ave	5938 635611	11502 1306202	24154 2571774	118410	242874	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	1852 216865	3746 459448	7591 943832	38742	81762	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethylbenzene	CBZ	Ave	8038 1083331	15437 2199544	33744 4178000	189404	406003	0.500 50.0	1.00 100	2.00 200	10.0	20.0
m,p-Xylene	CBZ	Ave	6769 848829	12873 1739924	24482 3354304	147483	314655	0.500 50.0	1.00 100	2.00 200	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
o-Xylene	CBZ	Ave	5850 856686	12512 1780353	24528 3459924	147488	318347	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Styrene	CBZ	Lin2	3852 707030	9214 1455880	18878 2826742	118573	257695	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Bromoform	CBZ	Ave	667 94886	1454 205341	2992 430555	15815	34525	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Isopropylbenzene	CBZ	Ave	6922 1085051	13573 2193982	29792 4235409	178481	395620	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Cyclohexanone	FB	Lin1	+++++ 52668	245 97219	696 230981	6310	17548	+++++ 500	10.0 1000	20.0 2000	100	200
Bromobenzene	DCB	Ave	3599 360629	5809 760240	13262 1554757	60493	133040	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	1116 158735	2530 328982	5451 655838	28239	60671	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,3-Trichloropropane	DCB	Lin2	192 46024	764 93182	1441 188083	7650	17692	0.500 50.0	1.00 100	2.00 200	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Lin1	+++++ 33927	157 79282	365 165190	4143	11075	+++++ 50.0	1.00 100	2.00 200	10.0	20.0
N-Propylbenzene	DCB	Ave	6440 1229131	15017 2427055	32941 4540412	206747	448537	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Chlorotoluene	DCB	Ave	7089 732595	12305 1479554	24030 2881482	130862	275614	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	5480 871410	11910 1777049	24786 3414672	150711	324848	0.500 50.0	1.00 100	2.00 200	10.0	20.0
4-Chlorotoluene	DCB	Ave	6806 848891	12401 1731303	26022 3358333	150073	314349	0.500 50.0	1.00 100	2.00 200	10.0	20.0
tert-Butylbenzene	DCB	Ave	4722 762756	9065 1560287	19791 3049530	123194	274380	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	5638 887927	11204 1804136	23448 3445973	152623	329667	0.500 50.0	1.00 100	2.00 200	10.0	20.0
sec-Butylbenzene	DCB	Ave	7168 1096163	13124 2185708	28755 4092170	180601	393090	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	3357 504828	7354 1049800	15600 2065032	86365	186380	0.500 50.0	1.00 100	2.00 200	10.0	20.0
p-Isopropyltoluene	DCB	Ave	5003 944724	11554 1911695	25559 3570712	156356	344222	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	4649 522831	8955 1058771	17866 2036073	94956	199882	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,3-Trimethylbenzene	DCB	Ave	6566 884923	13449 1786011	27081 3314382	153933	330272	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Benzyl chloride	CBZ	Lin1	+++++ 262835	+++++ 586955	4453 1217724	34223	86971	+++++ 50.0	+++++ 100	2.00 200	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 238076

SDG No.:

Instrument ID: HP25 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/01/2015 13:52 Calibration End Date: 04/01/2015 17:04 Calibration ID: 39104

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2-Dichlorobenzene	DCB	Ave	3232 468881	7316 966093	14679 1836205	82008	177752	0.500 50.0	1.00 100	2.00 200	10.0	20.0
n-Butylbenzene	DCB	Lin2	3325 751790	8445 1553165	17671 3013650	118447	264175	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Lin2	+++++ 27100	72 56180	570 121303	4142	9798	+++++ 50.0	1.00 100	2.00 200	10.0	20.0
1,3,5-Trichlorobenzene	DCB	Ave	2089 332283	4708 710118	9592 1471439	54759	120454	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Lin2	1286 277278	3529 586554	7414 1226736	42525	96838	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Hexachlorobutadiene	DCB	Ave	960 113637	1932 237839	3577 527081	19184	39340	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Naphthalene	DCB	Lin1	+++++ 510712	5599 1022284	12316 2050529	68159	177442	+++++ 50.0	1.00 100	2.00 200	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Lin2	945 239048	2910 500404	6915 1002152	38093	84495	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	95458 101963	97226 106910	98650 110277	96067	97764	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	92716 99988	98112 106177	100735 107677	96321	99262	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBZ	Ave	397129 453327	410858 475223	420563 496057	428685	436140	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	DCB	Ave	130171 166280	137242 174642	141090 180822	149431	157313	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-233414/2	031315-02.D
Level 2	STD001 490-233414/3	031315-03.D
Level 3	STD002 490-233414/4	031315-04.D
Level 4	STD010 490-233414/5	031315-05.D
Level 5	STD020 490-233414/6	031315-06.D
Level 6	ICIS 490-233414/7	031315-07.D
Level 7	STD100 490-233414/8	031315-08.D
Level 8	STD200 490-233414/9	031315-09.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.3005 0.2664	0.3035 0.2705	0.2843 0.2641	0.2726	0.2702	Ave		0.2790				5.5		15.0			
Chloromethane	0.2164 0.1978	0.2213 0.2007	0.2136 0.2037	0.2044	0.2007	Ave		0.2073			0.1000	4.1		15.0			
Vinyl chloride	0.2723 0.2410	0.2662 0.2464	0.2358 0.2458	0.2476	0.2430	Ave		0.2498				5.1		15.0			
Butadiene	0.2418 0.2090	0.2235 0.2132	0.2143 0.2158	0.2111	0.2039	Ave		0.2166				5.4		15.0			
Bromomethane	0.1968 0.1766	0.1914 0.1856	0.1840 0.1858	0.1734	0.1705	Ave		0.1830				4.9		15.0			
Chloroethane	0.1636 0.1618	0.1789 0.1624	0.1702 0.1591	0.1631	0.1613	Ave		0.1650				3.9		15.0			
Dichlorofluoromethane	0.5328 0.4413	0.5021 0.4472	0.4645 0.4354	0.4597	0.4367	Ave		0.4650				7.5		15.0			
Trichlorofluoromethane	0.5032 0.4689	0.4792 0.4734	0.4595 0.4652	0.4629	0.4611	Ave		0.4717				3.0		15.0			
Ethanol	0.0006 0.0003	0.0004 0.0003	0.0003 0.0003	0.0003	0.0003	Lin1	0.0048	0.0003							0.9970		0.9900
Diethyl ether	0.1312 0.1284	0.1287 0.1298	0.1203 0.1270	0.1242	0.1272	Ave		0.1271				2.7		15.0			
Acrolein	+++++ 0.0072	0.0160 0.0073	0.0119 0.0070	0.0065	0.0065	Lin1	0.0202	0.0070							0.9980		0.9900
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.2789 0.2584	0.2752 0.2630	0.2515 0.2664	0.2539	0.2587	Ave		0.2632				3.7		15.0			
1,1-Dichloroethene	0.2390 0.2270	0.2534 0.2350	0.2311 0.2325	0.2279	0.2291	Ave		0.2344				3.7		15.0			
Acetone	0.0083 0.0072	0.0091 0.0069	0.0069 0.0068	0.0074	0.0066	Ave		0.0074				12.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Iodomethane	0.1875 0.3509	0.2050 0.3807	0.2238 0.3640	0.2846	0.3127	Lin1	-0.163	0.3640							0.9970		0.9900
Isopropyl alcohol	0.0067 0.0035	0.0056 0.0036	0.0046 0.0037	0.0028	0.0034	Lin1	0.0142	0.0036							0.9970		0.9900
Carbon disulfide	0.6407 0.5979	0.6204 0.5067	0.5724 0.4534	0.5903	0.5890	Ave		0.5713				11.0		15.0			
Acetonitrile	0.0435 0.0382	0.0414 0.0392	0.0400 0.0379	0.0390	0.0379	Ave		0.0396				4.9		15.0			
3-Chloro-1-propene	0.1712 0.1481	0.1604 +++++	0.1546 +++++	0.1522	0.1481	Ave		0.1558				5.7		15.0			
Methyl acetate	0.0827 0.0956	0.0940 0.0969	0.0907 0.0923	0.0939	0.0946	Ave		0.0926				4.8		15.0			
Methylene Chloride	0.3912 0.2365	0.3234 0.2385	0.2781 0.2319	0.2455	0.2359	Lin2	0.0799	0.2358							1.0000		0.9900
tert-Butyl alcohol (TBA)	0.0059 0.0070	0.0069 0.0071	0.0055 0.0072	0.0062	0.0067	Ave		0.0066				9.4		15.0			
Acrylonitrile	0.0359 0.0346	0.0330 0.0350	0.0329 0.0340	0.0330	0.0334	Ave		0.0340				3.3		15.0			
Methyl tert-butyl ether	0.4972 0.4870	0.4642 0.4960	0.4621 0.4772	0.4669	0.4753	Ave		0.4782				2.9		15.0			
trans-1,2-Dichloroethene	0.3322 0.3105	0.3238 0.3098	0.3146 0.3052	0.3126	0.3075	Ave		0.3145				2.9		15.0			
Hexane	0.3377 0.2993	0.3201 0.3000	0.3080 0.2940	0.2908	0.2975	Ave		0.3059				5.1		15.0			
1,1-Dichloroethane	0.4659 0.4065	0.4282 0.4127	0.4161 0.4023	0.4157	0.4025	Ave		0.4187			0.1000	5.0		15.0			
Vinyl acetate	0.1908 0.1867	0.1863 0.1885	0.1814 0.1794	0.1866	0.1835	Ave		0.1854				2.0		15.0			
Diisopropyl ether	0.6002 0.5935	0.5860 0.6000	0.5837 0.5788	0.5845	0.5865	Ave		0.5891				1.3		15.0			
Chloroprene	0.3513 0.3601	0.3532 0.3656	0.3426 0.3547	0.3637	0.3623	Ave		0.3567				2.2		15.0			
Ethyl tert-butyl ether	0.5447 0.5697	0.5543 0.5778	0.5393 0.5541	0.5537	0.5605	Ave		0.5568				2.2		15.0			
cis-1,2-Dichloroethene	0.4305 0.3598	0.3773 0.3647	0.3967 0.3598	0.3750	0.3649	Ave		0.3786				6.4		15.0			
2,2-Dichloropropane	0.4440 0.4015	0.4124 0.4081	0.3911 0.4001	0.3980	0.3938	Ave		0.4061				4.1		15.0			
2-Butanone (MEK)	0.0116 0.0118	0.0128 0.0123	0.0114 0.0121	0.0116	0.0124	Ave		0.0120				4.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	+++++ 0.0682	+++++ 0.0677	0.0764 0.0618	0.0669	0.0641	Ave		0.0675				7.4		15.0			
Propionitrile	0.0120 0.0118	0.0129 0.0122	0.0121 0.0122	0.0111	0.0121	Ave		0.0121				4.1		15.0			
Methacrylonitrile	0.0602 0.0597	0.0584 0.0601	0.0596 0.0577	0.0620	0.0593	Ave		0.0596				2.2		15.0			
Bromochloromethane	0.1704 0.1628	0.1757 0.1624	0.1633 0.1495	0.1625	0.1631	Ave		0.1637				4.6		15.0			
Chloroform	0.5673 0.4612	0.5396 0.4636	0.4969 0.4415	0.4737	0.4568	Ave		0.4876				9.1		15.0			
Tetrahydrofuran	+++++ 0.0246	+++++ 0.0252	0.0223 0.0252	0.0247	0.0229	Ave		0.0241				5.1		15.0			
1,1,1-Trichloroethane	0.4722 0.4536	0.4767 0.4633	0.4484 0.4504	0.4493	0.4492	Ave		0.4579				2.5		15.0			
Cyclohexane	0.4407 0.3855	0.4230 0.3878	0.4023 0.3811	0.3942	0.3894	Ave		0.4005				5.2		15.0			
Carbon tetrachloride	0.4017 0.4063	0.4004 0.4196	0.3804 0.4118	0.3836	0.3936	Ave		0.3997				3.4		15.0			
1,1-Dichloropropene	0.3391 0.3296	0.3494 0.3364	0.3234 0.3300	0.3381	0.3288	Ave		0.3344				2.4		15.0			
Isobutanol	0.0061 0.0065	0.0075 0.0067	0.0053 0.0068	0.0057	0.0064	Ave		0.0064				11.0		15.0			
Benzene	1.0912 0.9936	1.0802 1.0031	1.0263 0.9355	1.0202	0.9995	Ave		1.0187				4.9		15.0			
t-Amyl alcohol	0.0053 0.0055	0.0055 0.0057	0.0050 0.0058	0.0049	0.0052	Ave		0.0054				6.1		15.0			
1,2-Dichloroethane	0.3315 0.2870	0.3059 0.2879	0.2973 0.2767	0.2910	0.2856	Ave		0.2954				5.7		15.0			
Tert-amyl methyl ether	0.5035 0.5072	0.5116 0.5216	0.4617 0.4994	0.5007	0.5088	Ave		0.5018				3.5		15.0			
Heptane	0.3023 0.2649	0.2832 0.2660	0.2712 0.2646	0.2597	0.2672	Ave		0.2724				5.1		15.0			
n-Butanol	+++++ 0.0017	+++++ 0.0017	0.0020 0.0019	0.0015	0.0016	Ave		0.0017				11.0		15.0			
Trichloroethene	0.3239 0.3113	0.3330 0.3172	0.3038 0.3128	0.3095	0.3062	Ave		0.3147				3.1		15.0			
Ethyl acrylate	+++++ 0.1270	+++++ 0.1326	0.0824 0.1334	0.0920	0.1125	Lin1	-0.168	0.1325							0.9980		0.9900
Methylcyclohexane	0.4780 0.4518	0.4838 0.4589	0.4534 0.4515	0.4463	0.4470	Ave		0.4588				3.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloropropane	0.2447 0.2255	0.2219 0.2301	0.2184 0.2254	0.2172	0.2249	Ave		0.2260				3.8		15.0			
Dibromomethane	0.1250 0.1182	0.1221 0.1213	0.1213 0.1165	0.1187	0.1177	Ave		0.1201				2.3		15.0			
Methyl methacrylate	0.0950 0.1047	0.0918 0.1059	0.0948 0.1005	0.1008	0.1016	Ave		0.0994				5.1		15.0			
1,4-Dioxane	+++++ 0.0006	+++++ 0.0006	0.0005 0.0007	0.0006	0.0005	Ave		0.0006				13.0		15.0			
Bromodichloromethane	0.3243 0.3372	0.3275 0.3503	0.3133 0.3456	0.3212	0.3283	Ave		0.3310				3.8		15.0			
2-Nitropropane	+++++ 0.0265	0.0403 0.0300	0.0278 0.0312	0.0229	0.0240	Lin1	-0.007	0.0298							0.9930		0.9900
2-Chloroethyl vinyl ether	0.1067 0.1107	0.1063 0.1095	0.1030 0.1061	0.1019	0.1122	Ave		0.1070				3.3		15.0			
cis-1,3-Dichloropropene	0.4128 0.4696	0.4330 0.4671	0.4446 0.4511	0.4465	0.4607	Ave		0.4482				4.2		15.0			
4-Methyl-2-pentanone (MIBK)	0.0477 0.0503	0.0452 0.0492	0.0477 0.0467	0.0494	0.0514	Ave		0.0485				4.1		15.0			
Toluene	1.7030 1.5037	1.7485 1.4439	1.5819 1.3268	1.5546	1.5561	Ave		1.5523				8.7		15.0			
trans-1,3-Dichloropropene	0.3127 0.3624	0.3229 0.3614	0.3293 0.3520	0.3384	0.3505	Ave		0.3412				5.4		15.0			
Ethyl methacrylate	0.2697 0.2433	0.3271 0.2412	0.2241 0.2265	0.2345	0.2463	Ave		0.2516				13.0		15.0			
1,1,2-Trichloroethane	0.2607 0.2210	0.2370 0.2165	0.2173 0.2038	0.2260	0.2271	Ave		0.2262				7.5		15.0			
Tetrachloroethene	0.3979 0.4356	0.4747 0.4347	0.4499 0.4161	0.4387	0.4387	Ave		0.4358				5.2		15.0			
1,3-Dichloropropane	0.3406 0.3525	0.3434 0.3484	0.3659 0.3351	0.3489	0.3571	Ave		0.3490				2.8		15.0			
2-Hexanone	0.0308 0.0431	0.0417 0.0418	0.0380 0.0405	0.0408	0.0445	Ave		0.0401				11.0		15.0			
Chlorodibromomethane	0.1635 0.2116	0.1619 0.2228	0.1685 0.2262	0.1875	0.1958	Lin2	-0.028	0.2050							0.9910		0.9900
n-Butyl acetate	0.1329 0.1015	0.1014 0.1051	0.0827 0.1004	0.1030	0.1036	Ave		0.1038				13.0		15.0			
1,2-Dibromoethane (EDB)	0.1968 0.2084	0.1958 0.2103	0.1916 0.2078	0.2024	0.2072	Ave		0.2025				3.5		15.0			
1-Chlorohexane	0.4307 0.3653	0.3812 0.3832	0.3698 0.3801	0.3571	0.3524	Ave		0.3775				6.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Chlorobenzene	0.9364 0.9932	1.0410 0.9903	0.9957 0.9473	0.9819	0.9798	Ave		0.9832			0.3000	3.2		15.0			
1,1,1,2-Tetrachloroethane	0.3102 0.3546	0.3103 0.3581	0.2950 0.3586	0.3295	0.3352	Ave		0.3315				7.4		15.0			
Ethylbenzene	1.6798 1.6649	1.6436 1.6461	1.5985 1.5309	1.6486	1.6593	Ave		1.6340				2.9		15.0			
m,p-Xylene	1.2988 1.3466	1.3946 1.3052	1.2953 1.2422	1.3241	1.3328	Ave		1.3175				3.4		15.0			
o-Xylene	1.2575 1.3436	1.3303 1.3406	1.2625 1.2557	1.3080	1.3389	Ave		1.3046				3.0		15.0			
Styrene	0.8675 1.1194	0.9497 1.1156	0.9970 1.0470	1.0626	1.1003	Ave		1.0324				8.6		15.0			
Bromoform	0.1128 0.1571	0.1159 +++++	0.1129 +++++	0.1267	0.1380	Ave		0.1272			0.1000	14.0		15.0			
Isopropylbenzene	1.6423 1.7753	1.7678 1.7467	1.6991 1.6167	1.7235	1.7556	Ave		1.7159				3.4		15.0			
Cyclohexanone	+++++ 0.0021	+++++ 0.0022	0.0036 0.0024	0.0022	0.0021	Lin2	0.0290	0.0021							0.9900		0.9900
Bromobenzene	0.7493 0.8904	1.0643 0.9087	1.0030 0.8962	0.8898	0.8867	Ave		0.9110				10.0		15.0			
1,1,2,2-Tetrachloroethane	0.3400 0.3605	0.3548 0.3666	0.3603 0.3496	0.3621	0.3625	Ave		0.3571			0.3000	2.4		15.0			
1,2,3-Trichloropropane	0.1313 0.1250	0.1322 0.1283	0.1153 0.1211	0.1225	0.1267	Ave		0.1253				4.5		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.0905	+++++ 0.0964	0.0466 0.0950	0.1072	0.0856	Lin1	-0.076	0.0955							0.9980		0.9900
N-Propylbenzene	3.1202 3.3238	3.3423 3.2961	3.2030 3.0325	3.3567	3.3658	Ave		3.2550				3.8		15.0			
2-Chlorotoluene	1.8395 1.9876	2.3217 1.9835	2.1544 1.8782	2.0581	2.0151	Ave		2.0298				7.6		15.0			
1,3,5-Trimethylbenzene	2.5315 2.5118	2.5138 2.5311	2.3820 2.3338	2.4987	2.5202	Ave		2.4779				3.1		15.0			
4-Chlorotoluene	2.3462 2.3548	2.1488 2.3628	2.1865 2.1906	2.4022	2.3863	Ave		2.2973				4.5		15.0			
tert-Butylbenzene	2.2931 2.2195	2.2852 2.2188	2.1024 2.1278	2.1877	2.2153	Ave		2.2062				3.0		15.0			
1,2,4-Trimethylbenzene	2.5508 2.5615	2.4975 2.5679	2.3972 2.3930	2.5520	2.5600	Ave		2.5100				3.0		15.0			
sec-Butylbenzene	3.1247 3.0946	3.1598 3.1047	3.0090 2.8916	3.0591	3.1046	Ave		3.0685				2.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,3-Dichlorobenzene	1.3335 1.3988	1.3420 1.4328	1.2894 1.3849	1.3456	1.3688	Ave		1.3620				3.2		15.0			
p-Isopropyltoluene	2.6811 2.7834	2.7416 2.8092	2.6298 2.6011	2.7482	2.7875	Ave		2.7227				2.8		15.0			
1,4-Dichlorobenzene	1.4946 1.4344	1.4685 1.4587	1.4048 1.4009	1.4517	1.4365	Ave		1.4438				2.2		15.0			
1,2,3-Trimethylbenzene	2.3365 2.4547	2.4706 2.4658	2.3545 2.2996	2.4463	2.4530	Ave		2.4101				2.8		15.0			
Benzyl chloride	0.1026 0.4133	0.2459 0.4333	0.2540 0.4281	0.3257	0.3712	Lin1	-0.224	0.4248							0.9980		0.9900
1,2-Dichlorobenzene	1.1971 1.2171	1.1652 1.2497	1.1523 1.1833	1.2281	1.2308	Ave		1.2029				2.8		15.0			
n-Butylbenzene	2.0058 2.1847	1.8707 2.2216	1.9158 2.0875	2.0855	2.1505	Ave		2.0653				6.1		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0692	0.0478 0.0744	0.0506 0.0747	0.0615	0.0653	Lin2	-0.025	0.0695							0.9940		0.9900
1,3,5-Trichlorobenzene	0.6794 0.8520	0.7388 0.8806	0.7401 0.8900	0.7960	0.8262	Ave		0.8004				9.4		15.0			
1,2,4-Trichlorobenzene	0.4639 0.6440	0.5261 0.6389	0.5487 0.6536	0.5837	0.6200	Ave		0.5849				12.0		15.0			
Hexachlorobutadiene	0.2654 0.3263	0.3030 0.3403	0.3093 0.3567	0.2957	0.3112	Ave		0.3135				9.0		15.0			
Naphthalene	0.8133 0.9970	0.8246 1.0204	0.8649 1.0099	0.8772	0.9671	Ave		0.9218				9.3		15.0			
1,2,3-Trichlorobenzene	0.3561 0.4739	0.4226 0.4849	0.4369 0.4934	0.4284	0.4534	Ave		0.4437				9.9		15.0			
Dibromofluoromethane (Surr)	0.2491 0.2502	0.2506 0.2478	0.2498 0.2462	0.2485	0.2457	Ave		0.2485				0.7		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2325 0.2276	0.2330 0.2222	0.2338 0.2230	0.2414	0.2283	Ave		0.2302				2.7		15.0			
Toluene-d8 (Surr)	1.2978 1.2578	1.3408 1.2289	1.3293 1.1948	1.2975	1.2898	Ave		1.2796				3.9		15.0			
4-Bromofluorobenzene (Surr)	0.8168 0.7899	0.8315 0.7901	0.8018 0.7882	0.8142	0.7925	Ave		0.8031				2.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-233414/2	031315-02.D
Level 2	STD001 490-233414/3	031315-03.D
Level 3	STD002 490-233414/4	031315-04.D
Level 4	STD010 490-233414/5	031315-05.D
Level 5	STD020 490-233414/6	031315-06.D
Level 6	ICIS 490-233414/7	031315-07.D
Level 7	STD100 490-233414/8	031315-08.D
Level 8	STD200 490-233414/9	031315-09.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	2336 217650	4757 444641	8959 882104	43054	87595	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chloromethane	FB	Ave	1682 161586	3469 329939	6732 680591	32283	65073	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Vinyl chloride	FB	Ave	2117 196931	4173 405027	7431 821146	39104	78779	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Butadiene	FB	Ave	1880 170766	3503 350514	6755 720888	33346	66123	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Bromomethane	FB	Ave	1530 144277	3000 305154	5800 620647	27391	55268	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chloroethane	FB	Ave	1272 132211	2804 266957	5364 531464	25753	52291	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Dichlorofluoromethane	FB	Ave	4142 360542	7871 735190	14638 1454339	72591	141598	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Trichlorofluoromethane	FB	Ave	3912 383087	7512 778195	14480 1553946	73108	149489	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethanol	FB	Lin1	221 11160	324 22743	451 50691	1978	4771	25.0 2500	50.0 5000	100 10000	500	1000
Diethyl ether	FB	Ave	1020 104877	2017 213404	3791 424118	19608	41235	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Acrolein	FB	Lin1	+++++ 14798	628 29859	937 58530	2554	5284	+++++ 125	2.50 250	5.00 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	2168 211144	4314 432381	7927 889783	40094	83863	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1-Dichloroethene	FB	Ave	1858 185476	3972 386374	7284 776577	35994	74292	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Acetone	FB	Ave	324 29427	713 56658	1091 113934	5868	10665	2.50 250	5.00 500	10.0 1000	50.0	100
Iodomethane	FB	Lin1	1458 286722	3214 625869	7054 1216028	44943	101386	0.500 50.0	1.00 100	2.00 200	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Isopropyl alcohol	FB	Lin1	520 28753	880 59169	1461 123414	4437	11149	5.00 500	10.0 1000	20.0 2000	100	200
Carbon disulfide	FB	Ave	4981 488520	9725 832887	18040 1514433	93227	190950	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Acetonitrile	FB	Ave	3383 312201	6483 644008	12622 1265883	61650	122827	5.00 500	10.0 1000	20.0 2000	100	200
3-Chloro-1-propene	FB	Ave	1331 121016	2515 +++++	4871 +++++	24038	48010	0.500 50.0	1.00 +++++	2.00 +++++	10.0	20.0
Methyl acetate	FB	Ave	3216 390362	7367 796326	14292 1542386	74130	153317	2.50 250	5.00 500	10.0 1000	50.0	100
Methylene Chloride	FB	Lin2	3041 193233	5069 392045	8766 774519	38778	76472	0.500 50.0	1.00 100	2.00 200	10.0	20.0
tert-Butyl alcohol (TBA)	FB	Ave	456 57029	1075 116292	1739 241015	9792	21693	5.00 500	10.0 1000	20.0 2000	100	200
Acrylonitrile	FB	Ave	2794 282919	5174 576137	10355 1135662	52049	108445	5.00 500	10.0 1000	20.0 2000	100	200
Methyl tert-butyl ether	FB	Ave	3865 397898	7277 815357	14564 1593988	73742	154098	0.500 50.0	1.00 100	2.00 200	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	2583 253655	5076 509270	9914 1019459	49361	99697	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Hexane	FB	Ave	2625 244507	5018 493155	9707 982012	45925	96446	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1-Dichloroethane	FB	Ave	3622 332144	6712 678364	13115 1344002	65653	130498	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Vinyl acetate	FB	Ave	2966 305110	5842 619626	11435 1198609	58949	118998	1.00 100	2.00 200	4.00 400	20.0	40.0
Diisopropyl ether	FB	Ave	4666 484919	9186 986338	18395 1933509	92301	190163	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chloroprene	FB	Ave	2731 294198	5537 601035	10796 1184774	57436	117455	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethyl tert-butyl ether	FB	Ave	4235 465464	8689 949789	16997 1850894	87447	181740	0.500 50.0	1.00 100	2.00 200	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	3347 293926	5915 599564	12502 1201771	59226	118300	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	3452 328019	6465 670849	12325 1336528	62860	127685	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Butanone (MEK)	FB	Ave	449 48280	1000 101091	1791 201348	9143	20088	2.50 250	5.00 500	10.0 1000	50.0	100
Ethyl acetate	FB	Ave	+++++ 111389	+++++ 222497	4814 412753	21123	41535	+++++ 100	+++++ 200	4.00 400	20.0	40.0
Propionitrile	FB	Ave	932 96334	2019 200692	3818 409109	17569	39343	5.00 500	10.0 1000	20.0 2000	100	200

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Methacrylonitrile	FB	Ave	4682 488058	9159 988338	18782 1926960	97905	192273	5.00 500	10.0 1000	20.0 2000	100	200
Bromochloromethane	FB	Ave	1325 133042	2755 266999	5146 499414	25665	52881	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chloroform	FB	Ave	4410 376799	8459 762151	15661 1474803	74812	148105	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Tetrahydrofuran	FB	Ave	+++++ 40237	+++++ 82742	1405 168114	7790	14838	+++++ 100	+++++ 200	4.00 400	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	3671 370640	7473 761560	14131 1504596	70950	145630	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Cyclohexane	FB	Ave	3426 314967	6631 637399	12679 1273026	62247	126236	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Carbon tetrachloride	FB	Ave	3123 331918	6276 689812	11989 1375487	60586	127622	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1-Dichloropropene	FB	Ave	2636 269296	5478 553058	10191 1102371	53395	106602	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Isobutanol	FB	Ave	476 52748	1177 109965	1682 227267	9001	20672	5.00 500	10.0 1000	20.0 2000	100	200
Benzene	FB	Ave	8483 811783	16933 1648980	32344 3124956	161120	324048	0.500 50.0	1.00 100	2.00 200	10.0	20.0
t-Amyl alcohol	FB	Ave	411 44989	867 94047	1581 193350	7719	16718	5.00 500	10.0 1000	20.0 2000	100	200
1,2-Dichloroethane	FB	Ave	2577 234498	4795 473336	9369 924373	45957	92613	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Tert-amyl methyl ether	FB	Ave	3914 414425	8020 857445	14552 1668375	79076	164960	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Heptane	FB	Ave	2350 216454	4440 437181	8546 883760	41008	86646	0.500 50.0	1.00 100	2.00 200	10.0	20.0
n-Butanol	FB	Ave	+++++ 34737	+++++ 71332	1607 156110	5928	12973	+++++ 1250	+++++ 2500	50.0 5000	250	500
Trichloroethene	FB	Ave	2518 254313	5220 521430	9575 1044813	48880	99292	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethyl acrylate	FB	Lin1	+++++ 103764	+++++ 217962	2598 445561	14535	36463	+++++ 50.0	+++++ 100	2.00 200	10.0	20.0
Methylcyclohexane	FB	Ave	3716 369114	7584 754379	14289 1508112	70486	144928	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2-Dichloropropane	FB	Ave	1902 184231	3479 378218	6883 753017	34294	72923	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Dibromomethane	FB	Ave	972 96567	1914 199407	3824 389287	18747	38170	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Methyl methacrylate	FB	Ave	1477 171101	2878 348212	5973 671145	31832	65908	1.00 100	2.00 200	4.00 400	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	FB	Ave	+++++ 9186	+++++ 19931	292 44418	1971	3398	+++++ 1000	+++++ 2000	40.0 4000	200	400
Bromodichloromethane	FB	Ave	2521 275536	5134 575804	9873 1154594	50730	106440	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Nitropropane	FB	Lin1	+++++ 43335	1262 98794	1751 208338	7241	15558	+++++ 100	2.00 200	4.00 400	20.0	40.0
2-Chloroethyl vinyl ether	CBZ	Ave	638 69374	1245 143000	2427 285477	12261	27119	0.500 50.0	1.00 100	2.00 200	10.0	20.0
cis-1,3-Dichloropropene	CBZ	Ave	2467 294371	5069 610296	10476 1213691	53720	111380	0.500 50.0	1.00 100	2.00 200	10.0	20.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	1426 157642	2648 321584	5623 628223	29735	62088	2.50 250	5.00 500	10.0 1000	50.0	100
Toluene	CBZ	Ave	10179 942573	20471 1886416	37275 3569510	187062	376218	0.500 50.0	1.00 100	2.00 200	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	1869 227158	3780 472199	7759 947103	40718	84741	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethyl methacrylate	CBZ	Ave	1612 152494	3830 315071	5281 609362	28214	59546	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	1558 138564	2775 282895	5121 548374	27191	54916	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Tetrachloroethene	CBZ	Ave	2378 273088	5558 567915	10602 1119580	52783	106072	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	2036 220987	4021 455168	8622 901436	41980	86349	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Hexanone	CBZ	Ave	919 135176	2439 272961	4481 544344	24522	53744	2.50 250	5.00 500	10.0 1000	50.0	100
Chlorodibromomethane	CBZ	Lin2	977 132630	1895 291107	3971 608493	22560	47347	0.500 50.0	1.00 100	2.00 200	10.0	20.0
n-Butyl acetate	FB	Ave	1033 82957	1589 172734	2607 335285	16267	33594	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2-Dibromoethane (EDB)	CBZ	Ave	1176 130627	2292 274714	4514 559052	24353	50089	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1-Chlorohexane	FB	Ave	3348 298490	5976 629905	11653 1269779	56396	114256	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chlorobenzene	CBZ	Ave	5597 622600	12188 1293839	23462 2548620	118143	236887	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	1854 222262	3633 467882	6952 964820	39652	81053	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethylbenzene	CBZ	Ave	10040 1043654	19243 2150508	37666 4118659	198370	401179	0.500 50.0	1.00 100	2.00 200	10.0	20.0
m,p-Xylene	CBZ	Ave	7763 844133	16328 1705187	30522 3341869	159327	322239	0.500 50.0	1.00 100	2.00 200	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
o-Xylene	CBZ	Ave	7516 842211	15575 1751471	29749 3378238	157391	323716	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Styrene	CBZ	Ave	5185 701693	11119 1457441	23494 2816759	127853	266023	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Bromoform	CBZ	Ave	674 98495	1357 +++++	2660 +++++	15249	33363	0.500 50.0	1.00 +++++	2.00 +++++	10.0	20.0
Isopropylbenzene	CBZ	Ave	9816 1112864	20698 2282034	40038 4349600	207383	424457	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Cyclohexanone	FB	Lin2	+++++ 16960	+++++ 35600	1133 81666	3446	6707	+++++ 500	+++++ 1000	20.0 2000	100	200
Bromobenzene	DCB	Ave	2329 326650	6765 681896	13008 1386651	60147	124081	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	1057 132243	2255 275129	4673 540855	24480	50729	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	408 45855	840 96273	1496 187391	8278	17736	0.500 50.0	1.00 100	2.00 200	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Lin1	+++++ 33211	+++++ 72323	605 146925	7247	11972	+++++ 50.0	+++++ 100	2.00 200	10.0	20.0
N-Propylbenzene	DCB	Ave	9699 1219426	21244 2473471	41541 4691907	226903	471002	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Chlorotoluene	DCB	Ave	5718 729216	14757 1488487	27942 2905942	139118	281990	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	7869 921509	15978 1899439	30894 3610855	168902	352680	0.500 50.0	1.00 100	2.00 200	10.0	20.0
4-Chlorotoluene	DCB	Ave	7293 863936	13658 1773144	28358 3389265	162378	333934	0.500 50.0	1.00 100	2.00 200	10.0	20.0
tert-Butylbenzene	DCB	Ave	7128 814291	14525 1665059	27267 3292185	147884	310012	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	7929 939753	15874 1926998	31091 3702454	172508	358245	0.500 50.0	1.00 100	2.00 200	10.0	20.0
sec-Butylbenzene	DCB	Ave	9713 1135350	20084 2329819	39025 4473875	206786	434459	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	4145 513186	8530 1075213	16723 2142736	90961	191549	0.500 50.0	1.00 100	2.00 200	10.0	20.0
p-Isopropyltoluene	DCB	Ave	8334 1021157	17426 2108133	34107 4024426	185770	390078	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	4646 526257	9334 1094632	18220 2167516	98127	201024	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,3-Trimethylbenzene	DCB	Ave	7263 900570	15703 1850414	30537 3557965	165359	343275	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Benzyl chloride	CBZ	Lin1	613 259068	2879 566139	5985 1151750	39187	89739	0.500 50.0	1.00 100	2.00 200	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2-Dichlorobenzene	DCB	Ave	3721 446511	7406 937799	14945 1830800	83016	172233	0.500 50.0	1.00 100	2.00 200	10.0	20.0
n-Butylbenzene	DCB	Ave	6235 801529	11890 1667140	24847 3229732	140976	300945	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Lin2	+++++ 25389	304 55813	656 115606	4156	9137	+++++ 50.0	1.00 100	2.00 200	10.0	20.0
1,3,5-Trichlorobenzene	DCB	Ave	2112 312587	4696 660854	9599 1376992	53810	115620	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	1442 236258	3344 479477	7117 1011235	39457	86765	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Hexachlorobutadiene	DCB	Ave	825 119697	1926 255393	4011 551899	19990	43547	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Naphthalene	DCB	Ave	2528 365761	5241 765727	11218 1562504	59295	135338	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	1107 173875	2686 363864	5666 763347	28956	63450	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	96822 102225	98208 101841	98390 102794	98118	99577	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	90360 92961	91297 91312	92088 93106	95301	92511	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBZ	Ave	387852 394236	392444 401374	391539 401809	390318	389794	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	DCB	Ave	126949 144906	132128 148227	129995 152438	137599	138627	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: ICV 490-238076/15 Calibration Date: 04/01/2015 18:26

Instrument ID: HP25 Calib Start Date: 04/01/2015 13:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2015 17:04

Lab File ID: 040115-15.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2468	0.2733		55.4	50.0	10.7	30.0
Chloromethane	Ave	0.2786	0.2734	0.1000	49.1	50.0	-1.9	30.0
Vinyl chloride	Ave	0.2932	0.2756		47.0	50.0	-6.0	30.0
Butadiene	Ave	0.2630	0.2491		47.4	50.0	-5.3	30.0
Bromomethane	Ave	0.1587	0.1595		50.3	50.0	0.5	30.0
Chloroethane	Ave	0.1799	0.1647		45.8	50.0	-8.5	30.0
Dichlorofluoromethane	Ave	0.4438	0.4051		45.6	50.0	-8.7	30.0
Trichlorofluoromethane	Ave	0.3832	0.3560		46.5	50.0	-7.1	30.0
Ethanol	Ave	0.0006	0.0005		1987	2500	-20.5	30.0
Diethyl ether	Ave	0.1401	0.1316		47.0	50.0	-6.1	30.0
Acrolein	Ave	0.0112	0.0117		131	125	4.9	30.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2384	0.2354		49.4	50.0	-1.3	30.0
1,1-Dichloroethene	Ave	0.2249	0.2134		47.4	50.0	-5.1	30.0
Acetone	Lin2		0.0084		230	250	-8.1	30.0
Iodomethane	Ave	0.2888	0.3104		53.7	50.0	7.5	30.0
Isopropyl alcohol	Lin1		0.0037		430	500	-14.0	30.0
Carbon disulfide	Ave	0.6094	0.6148		50.4	50.0	0.9	30.0
3-Chloro-1-propene	Ave	0.1339	0.1269		47.4	50.0	-5.2	30.0
Acetonitrile	Ave	0.0465	0.0432		464	500	-7.1	30.0
Methyl acetate	Lin2		0.1048		306	250	22.3	30.0
Methylene Chloride	Lin2		0.2171		49.8	50.0	-0.5	30.0
tert-Butyl alcohol (TBA)	Ave	0.0074	0.0065		444	500	-11.2	30.0
Acrylonitrile	Ave	0.0443	0.0413		466	500	-6.8	30.0
trans-1,2-Dichloroethene	Ave	0.3110	0.3134		50.4	50.0	0.8	30.0
Methyl tert-butyl ether	Ave	0.4451	0.4207		47.3	50.0	-5.5	30.0
Hexane	Ave	0.3744	0.3757		50.2	50.0	0.4	30.0
1,1-Dichloroethane	Ave	0.4379	0.4220	0.1000	48.2	50.0	-3.6	30.0
Vinyl acetate	Ave	0.4078	0.2257		55.4	100	-44.7*	30.0
Diisopropyl ether	Ave	0.6612	0.6504		49.2	50.0	-1.6	30.0
Chloroprene	Ave	0.3600	0.3638		50.5	50.0	1.1	30.0
Ethyl tert-butyl ether	Ave	0.5368	0.5267		49.1	50.0	-1.9	30.0
2,2-Dichloropropane	Ave	0.3600	0.3347		46.5	50.0	-7.0	30.0
cis-1,2-Dichloroethene	Ave	0.3574	0.3503		49.0	50.0	-2.0	30.0
2-Butanone (MEK)	Ave	0.0134	0.0121		225	250	-9.9	30.0
Propionitrile	Ave	0.0147	0.0140		475	500	-5.1	30.0
Ethyl acetate	Ave	0.0996	0.0703		70.6	100	-29.4	30.0
Bromochloromethane	Ave	0.1317	0.1226		46.5	50.0	-7.0	30.0
Methacrylonitrile	Ave	0.0672	0.0667		496	500	-0.8	30.0
Tetrahydrofuran	Lin2		0.0236		77.6	100	-22.4	30.0
Chloroform	Lin2		0.3831		48.8	50.0	-2.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: ICV 490-238076/15 Calibration Date: 04/01/2015 18:26

Instrument ID: HP25 Calib Start Date: 04/01/2015 13:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2015 17:04

Lab File ID: 040115-15.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.3552	0.3576		50.3	50.0	0.7	30.0
Cyclohexane	Ave	0.3771	0.4002		53.1	50.0	6.1	30.0
1,1-Dichloropropene	Ave	0.3121	0.3275		52.5	50.0	4.9	30.0
Carbon tetrachloride	Ave	0.3032	0.3151		52.0	50.0	3.9	30.0
Isobutanol	Ave	0.0029	0.0026		1088	1250	-13.0	30.0
Benzene	Ave	0.9309	0.9434		50.7	50.0	1.3	30.0
1,2-Dichloroethane	Ave	0.2567	0.2494		48.6	50.0	-2.8	30.0
t-Amyl alcohol	Ave	0.0052	0.0050		483	500	-3.5	30.0
Tert-amyl methyl ether	Ave	0.4234	0.4488		53.0	50.0	6.0	30.0
Heptane	Ave	0.3073	0.3223		52.4	50.0	4.9	30.0
n-Butanol	Lin1		0.0014		991	1250	-20.7	30.0
Trichloroethene	Ave	0.2631	0.2765		52.5	50.0	5.1	30.0
Ethyl acrylate	Lin2		0.1271		48.1	50.0	-3.9	
Methylcyclohexane	Ave	0.4170	0.4552		54.6	50.0	9.2	30.0
1,2-Dichloropropane	Ave	0.2199	0.2229		50.7	50.0	1.4	30.0
Dibromomethane	Ave	0.1096	0.1060		48.4	50.0	-3.2	30.0
Methyl methacrylate	Ave	0.0969	0.1016		105	100	4.9	30.0
1,4-Dioxane	Lin1		0.0006		749	1000	-25.1	30.0
Bromodichloromethane	Ave	0.2807	0.2840		50.6	50.0	1.1	30.0
2-Nitropropane	Ave	0.0300	0.0281		93.4	100	-6.6	30.0
2-Chloroethyl vinyl ether	Lin2		0.1138		52.2	50.0	4.4	30.0
cis-1,3-Dichloropropene	Ave	0.3953	0.4244		53.7	50.0	7.4	30.0
4-Methyl-2-pentanone (MIBK)	Lin2		0.0495		250	250	0.1	30.0
Toluene	Ave	1.351	1.364		50.5	50.0	1.0	30.0
trans-1,3-Dichloropropene	Ave	0.3071	0.3373		54.9	50.0	9.9	30.0
Ethyl methacrylate	Lin2		0.2221		50.9	50.0	1.8	30.0
1,1,2-Trichloroethane	Ave	0.2095	0.2012		48.0	50.0	-3.9	30.0
Tetrachloroethene	Ave	0.3837	0.3856		50.3	50.0	0.5	30.0
1,3-Dichloropropane	Ave	0.3410	0.3338		49.0	50.0	-2.1	30.0
2-Hexanone	Lin2		0.0423		241	250	-3.6	30.0
Chlorodibromomethane	Ave	0.1842	0.1898		51.5	50.0	3.0	30.0
n-Butyl acetate	Lin1		0.0962		35.1	50.0	-29.9	30.0
1,2-Dibromoethane (EDB)	Ave	0.1891	0.1918		50.7	50.0	1.4	30.0
1-Chlorohexane	Ave	0.3482	0.3638		52.2	50.0	4.5	30.0
Chlorobenzene	Ave	0.8824	0.8701	0.3000	49.3	50.0	-1.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.2944	0.2971		50.5	50.0	0.9	30.0
Ethylbenzene	Ave	1.361	1.481		54.4	50.0	8.8	30.0
m,p-Xylene	Ave	1.076	1.169		54.3	50.0	8.7	30.0
o-Xylene	Ave	1.065	1.152		54.1	50.0	8.2	30.0
Styrene	Lin2		0.9385		51.7	50.0	3.4	30.0
Bromoform	Ave	0.1220	0.1333	0.1000	54.6	50.0	9.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: ICV 490-238076/15 Calibration Date: 04/01/2015 18:26

Instrument ID: HP25 Calib Start Date: 04/01/2015 13:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2015 17:04

Lab File ID: 040115-15.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	1.289	1.507		58.5	50.0	17.0	30.0
Cyclohexanone	Lin1		0.0018		171	500	-65.8*	30.0
Bromobenzene	Ave	0.9311	0.9238		49.6	50.0	-0.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3885	0.3822	0.3000	49.2	50.0	-1.6	30.0
1,2,3-Trichloropropane	Lin2		0.1121		48.7	50.0	-2.5	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0847		45.3	50.0	-9.4	30.0
N-Propylbenzene	Ave	2.654	3.113		58.7	50.0	17.3	30.0
2-Chlorotoluene	Ave	1.853	1.838		49.6	50.0	-0.8	30.0
1,3,5-Trimethylbenzene	Ave	1.991	2.191		55.0	50.0	10.0	30.0
4-Chlorotoluene	Ave	2.036	2.133		52.4	50.0	4.8	30.0
tert-Butylbenzene	Ave	1.679	1.920		57.2	50.0	14.4	30.0
1,2,4-Trimethylbenzene	Ave	1.990	2.202		55.3	50.0	10.6	30.0
sec-Butylbenzene	Ave	2.407	2.735		56.8	50.0	13.6	30.0
1,3-Dichlorobenzene	Ave	1.187	1.265		53.3	50.0	6.5	30.0
p-Isopropyltoluene	Ave	2.053	2.340		57.0	50.0	14.0	30.0
1,4-Dichlorobenzene	Ave	1.320	1.304		49.4	50.0	-1.2	30.0
1,2,3-Trimethylbenzene	Ave	2.092	2.209		52.8	50.0	5.6	30.0
Benzyl chloride	Lin1		0.3458		47.2	50.0	-5.6	30.0
1,2-Dichlorobenzene	Ave	1.117	1.168		52.3	50.0	4.5	30.0
n-Butylbenzene	Lin2		1.909		54.7	50.0	9.4	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0673		50.1	50.0	0.1	30.0
1,3,5-Trichlorobenzene	Ave	0.7739	0.8139		52.6	50.0	5.2	30.0
1,2,4-Trichlorobenzene	Lin2		0.6521		49.0	50.0	-2.1	30.0
Hexachlorobutadiene	Ave	0.2836	0.2837		50.0	50.0	0.0	30.0
Naphthalene	Lin1		1.137		46.2	50.0	-7.5	30.0
1,2,3-Trichlorobenzene	Lin2		0.5380		46.5	50.0	-6.9	30.0
Dibromofluoromethane (Surr)	Ave	0.2247	0.2286		25.4	25.0	1.7	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2238	0.2154		24.1	25.0	-3.8	30.0
Toluene-d8 (Surr)	Ave	1.263	1.259		24.9	25.0	-0.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8339	0.8470		25.4	25.0	1.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCVIS 490-240821/2 Calibration Date: 04/13/2015 10:44

Instrument ID: HP25 Calib Start Date: 04/01/2015 13:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2015 17:04

Lab File ID: 041315-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2468	0.2655		67.2	62.5	7.6	20.0
Chloromethane	Ave	0.2786	0.2810	0.1000	63.0	62.5	0.8	20.0
Vinyl chloride	Ave	0.2932	0.3036		64.7	62.5	3.5	20.0
Butadiene	Ave	0.2630	0.2734		65.0	62.5	4.0	20.0
Bromomethane	Ave	0.1587	0.1486		58.5	62.5	-6.4	20.0
Chloroethane	Ave	0.1799	0.1715		59.6	62.5	-4.6	20.0
Dichlorofluoromethane	Ave	0.4438	0.4209		59.3	62.5	-5.2	20.0
Trichlorofluoromethane	Ave	0.3832	0.3558		58.0	62.5	-7.2	20.0
Ethanol	Ave	0.0006	0.0009		2675	2000	33.7	40.0
Diethyl ether	Ave	0.1401	0.1386		49.5	50.0	-1.1	20.0
Acrolein	Ave	0.0112	0.0077		85.6	125	-31.5	40.0
1,1-Dichloroethene	Ave	0.2249	0.2047		45.5	50.0	-9.0	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2384	0.2140		44.9	50.0	-10.2	20.0
Acetone	Lin2		0.0102		280	250	12.0	20.0
Iodomethane	Ave	0.2888	0.2650		45.9	50.0	-8.2	20.0
Isopropyl alcohol	Lin1		0.0047		557	500	11.4	20.0
Carbon disulfide	Ave	0.6094	0.5597		45.9	50.0	-8.2	20.0
3-Chloro-1-propene	Ave	0.1339	0.1212		45.2	50.0	-9.5	20.0
Acetonitrile	Ave	0.0465	0.0439		472	500	-5.6	20.0
Methyl acetate	Lin2		0.0845		246	250	-1.5	20.0
Methylene Chloride	Lin2		0.2058		47.2	50.0	-5.7	20.0
tert-Butyl alcohol (TBA)	Ave	0.0074	0.0077		523	500	4.6	40.0
Acrylonitrile	Ave	0.0443	0.0419		473	500	-5.4	20.0
trans-1,2-Dichloroethene	Ave	0.3110	0.2786		44.8	50.0	-10.4	20.0
Methyl tert-butyl ether	Ave	0.4451	0.4126		46.4	50.0	-7.3	20.0
Hexane	Ave	0.3744	0.3234		43.2	50.0	-13.6	20.0
1,1-Dichloroethane	Ave	0.4379	0.3867	0.1000	44.2	50.0	-11.7	20.0
Diisopropyl ether	Ave	0.6612	0.6035		45.6	50.0	-8.7	20.0
Chloroprene	Ave	0.3600	0.3224		44.8	50.0	-10.5	20.0
Ethyl tert-butyl ether	Ave	0.5368	0.5114		47.6	50.0	-4.7	20.0
2,2-Dichloropropane	Ave	0.3600	0.3283		45.6	50.0	-8.8	20.0
cis-1,2-Dichloroethene	Ave	0.3574	0.3277		45.8	50.0	-8.3	20.0
2-Butanone (MEK)	Ave	0.0134	0.0129		240	250	-4.0	20.0
Ethyl acetate	Ave	0.0996	0.0956		96.0	100	-4.0	20.0
Propionitrile	Ave	0.0147	0.0150		507	500	1.4	20.0
Bromochloromethane	Ave	0.1317	0.1235		46.9	50.0	-6.3	20.0
Methacrylonitrile	Ave	0.0672	0.0682		508	500	1.5	20.0
Tetrahydrofuran	Lin2		0.0293		96.8	100	-3.2	20.0
Chloroform	Lin2		0.3630		46.2	50.0	-7.6	20.0
1,1,1-Trichloroethane	Ave	0.3552	0.3456		48.6	50.0	-2.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCVIS 490-240821/2 Calibration Date: 04/13/2015 10:44

Instrument ID: HP25 Calib Start Date: 04/01/2015 13:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2015 17:04

Lab File ID: 041315-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Cyclohexane	Ave	0.3771	0.4067		53.9	50.0	7.8	20.0
1,1-Dichloropropene	Ave	0.3121	0.3326		53.3	50.0	6.5	20.0
Carbon tetrachloride	Ave	0.3032	0.3368		55.5	50.0	11.1	20.0
Isobutanol	Ave	0.0029	0.0036		1545	1250	23.6*	20.0
Benzene	Ave	0.9309	1.000		53.7	50.0	7.5	20.0
1,2-Dichloroethane	Ave	0.2567	0.2667		51.9	50.0	3.9	20.0
t-Amyl alcohol	Ave	0.0052	0.0066		636	500	27.3	40.0
Tert-amyl methyl ether	Ave	0.4234	0.4938		58.3	50.0	16.6	20.0
Heptane	Ave	0.3073	0.3119		50.7	50.0	1.5	20.0
n-Butanol	Lin1		0.0021		1508	1250	20.6*	20.0
Trichloroethene	Ave	0.2631	0.2854		54.2	50.0	8.4	20.0
Ethyl acrylate	Lin2		0.1516		57.1	50.0	14.3	20.0
Methylcyclohexane	Ave	0.4170	0.4640		55.6	50.0	11.3	20.0
1,2-Dichloropropane	Ave	0.2199	0.2382		54.2	50.0	8.3	20.0
Dibromomethane	Ave	0.1096	0.1168		53.3	50.0	6.6	20.0
Methyl methacrylate	Ave	0.0969	0.1182		122	100	22.0*	20.0
1,4-Dioxane	Lin1		0.0010		1211	1000	21.1*	20.0
Bromodichloromethane	Ave	0.2807	0.3034		54.0	50.0	8.1	20.0
2-Nitropropane	Ave	0.0300	0.0335		112	100	11.7	20.0
2-Chloroethyl vinyl ether	Lin2		0.1293		59.3	50.0	18.5	20.0
cis-1,3-Dichloropropene	Ave	0.3953	0.4857		61.4	50.0	22.9*	20.0
4-Methyl-2-pentanone (MIBK)	Lin2		0.0602		304	250	21.8*	20.0
Toluene	Ave	1.351	1.463		54.2	50.0	8.4	20.0
trans-1,3-Dichloropropene	Ave	0.3071	0.3826		62.3	50.0	24.6*	20.0
Ethyl methacrylate	Lin2		0.2636		60.4	50.0	20.8*	20.0
1,1,2-Trichloroethane	Ave	0.2095	0.2359		56.3	50.0	12.6	20.0
Tetrachloroethene	Ave	0.3837	0.4119		53.7	50.0	7.4	20.0
1,3-Dichloropropane	Ave	0.3410	0.3979		58.4	50.0	16.7	20.0
2-Hexanone	Lin2		0.0551		313	250	25.2*	20.0
Chlorodibromomethane	Ave	0.1842	0.2234		60.6	50.0	21.3*	20.0
n-Butyl acetate	Lin1		0.1494		53.5	50.0	7.0	20.0
1,2-Dibromoethane (EDB)	Ave	0.1891	0.2242		59.3	50.0	18.6	20.0
1-Chlorohexane	Ave	0.3482	0.3636		52.2	50.0	4.4	20.0
Chlorobenzene	Ave	0.8824	0.9676	0.3000	54.8	50.0	9.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2944	0.3339		56.7	50.0	13.4	20.0
Ethylbenzene	Ave	1.361	1.609		59.1	50.0	18.2	20.0
m,p-Xylene	Ave	1.076	1.256		58.4	50.0	16.7	20.0
o-Xylene	Ave	1.065	1.271		59.7	50.0	19.4	20.0
Styrene	Lin2		1.051		57.9	50.0	15.8	20.0
Bromoform	Ave	0.1220	0.1524	0.1000	62.5	50.0	25.0*	20.0
Isopropylbenzene	Ave	1.289	1.573		61.0	50.0	22.1*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCVIS 490-240821/2 Calibration Date: 04/13/2015 10:44

Instrument ID: HP25 Calib Start Date: 04/01/2015 13:52

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/01/2015 17:04

Lab File ID: 041315-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Cyclohexanone	Lin1		0.0084		773	500	54.5*	20.0
Bromobenzene	Ave	0.9311	1.008		54.1	50.0	8.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.3885	0.4635	0.3000	59.7	50.0	19.3	20.0
1,2,3-Trichloropropane	Lin2		0.1280		55.6	50.0	11.3	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1046		55.7	50.0	11.3	20.0
N-Propylbenzene	Ave	2.654	3.232		60.9	50.0	21.8*	20.0
2-Chlorotoluene	Ave	1.853	1.979		53.4	50.0	6.8	20.0
1,3,5-Trimethylbenzene	Ave	1.991	2.351		59.1	50.0	18.1	20.0
4-Chlorotoluene	Ave	2.036	2.285		56.1	50.0	12.2	20.0
tert-Butylbenzene	Ave	1.679	1.994		59.4	50.0	18.8	20.0
1,2,4-Trimethylbenzene	Ave	1.990	2.375		59.7	50.0	19.3	20.0
sec-Butylbenzene	Ave	2.407	2.802		58.2	50.0	16.4	20.0
1,3-Dichlorobenzene	Ave	1.187	1.381		58.2	50.0	16.3	20.0
p-Isopropyltoluene	Ave	2.053	2.473		60.2	50.0	20.5*	20.0
1,4-Dichlorobenzene	Ave	1.320	1.412		53.5	50.0	7.0	20.0
1,2,3-Trimethylbenzene	Ave	2.092	2.390		57.1	50.0	14.3	20.0
Benzyl chloride	Lin1		0.4394		59.5	50.0	19.0	20.0
1,2-Dichlorobenzene	Ave	1.117	1.281		57.3	50.0	14.7	20.0
n-Butylbenzene	Lin2		1.984		56.8	50.0	13.7	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0800		59.3	50.0	18.7	20.0
1,3,5-Trichlorobenzene	Ave	0.7739	0.9409		60.8	50.0	21.6*	20.0
1,2,4-Trichlorobenzene	Lin2		0.7415		55.7	50.0	11.3	20.0
Hexachlorobutadiene	Ave	0.2836	0.2952		52.0	50.0	4.1	20.0
Naphthalene	Lin1		1.395		56.6	50.0	13.3	20.0
1,2,3-Trichlorobenzene	Lin2		0.6628		57.3	50.0	14.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2247	0.1972		21.9	25.0	-12.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2238	0.2220		24.8	25.0	-0.8	30.0
Toluene-d8 (Surr)	Ave	1.263	1.274		25.2	25.0	0.9	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8339	0.8360		25.1	25.0	0.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: ICV 490-233414/12 Calibration Date: 03/13/2015 15:50

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 031315-12.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2790	0.2746		49.2	50.0	-1.6	30.0
Chloromethane	Ave	0.2073	0.2071	0.1000	50.0	50.0	-0.1	30.0
Vinyl chloride	Ave	0.2498	0.2388		47.8	50.0	-4.4	30.0
Butadiene	Ave	0.2166	0.2073		47.9	50.0	-4.3	30.0
Bromomethane	Ave	0.1830	0.1795		49.0	50.0	-1.9	30.0
Chloroethane	Ave	0.1650	0.1577		47.8	50.0	-4.5	30.0
Dichlorofluoromethane	Ave	0.4650	0.4380		47.1	50.0	-5.8	30.0
Trichlorofluoromethane	Ave	0.4717	0.4558		48.3	50.0	-3.4	30.0
Ethanol	Lin1		0.0003		2934	2500	17.4	30.0
Diethyl ether	Ave	0.1271	0.1260		49.6	50.0	-0.9	30.0
Acrolein	Lin1		0.0062		109	125	-13.1	30.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2632	0.2515		47.8	50.0	-4.5	30.0
1,1-Dichloroethene	Ave	0.2344	0.2213		47.2	50.0	-5.6	30.0
Acetone	Ave	0.0074	0.0056		189	250	-24.4	30.0
Iodomethane	Lin1		0.3697		51.2	50.0	2.5	30.0
Isopropyl alcohol	Lin1		0.0038		524	500	4.8	30.0
Carbon disulfide	Ave	0.5713	0.5700		49.9	50.0	-0.2	30.0
Acetonitrile	Ave	0.0396	0.0361		455	500	-8.9	30.0
3-Chloro-1-propene	Ave	0.1558	0.1402		45.0	50.0	-10.0	30.0
Methyl acetate	Ave	0.0926	0.0824		222	250	-11.1	30.0
Methylene Chloride	Lin2		0.2361		49.7	50.0	-0.6	30.0
tert-Butyl alcohol (TBA)	Ave	0.0066	0.0069		524	500	4.9	30.0
Acrylonitrile	Ave	0.0340	0.0331		487	500	-2.6	30.0
Methyl tert-butyl ether	Ave	0.4782	0.4649		48.6	50.0	-2.8	30.0
trans-1,2-Dichloroethene	Ave	0.3145	0.3163		50.3	50.0	0.6	30.0
Hexane	Ave	0.3059	0.2935		48.0	50.0	-4.1	30.0
1,1-Dichloroethane	Ave	0.4187	0.4172	0.1000	49.8	50.0	-0.4	30.0
Vinyl acetate	Ave	0.1854	0.2566		138	100	38.4*	30.0
Diisopropyl ether	Ave	0.5891	0.5932		50.3	50.0	0.7	30.0
Chloroprene	Ave	0.3567	0.3774		52.9	50.0	5.8	30.0
Ethyl tert-butyl ether	Ave	0.5568	0.5491		49.3	50.0	-1.4	30.0
2,2-Dichloropropane	Ave	0.4061	0.4065		50.0	50.0	0.0	30.0
cis-1,2-Dichloroethene	Ave	0.3786	0.3745		49.5	50.0	-1.1	30.0
2-Butanone (MEK)	Ave	0.0120	0.0109		227	250	-9.1	30.0
Ethyl acetate	Ave	0.0675	0.0779		116	100	15.5	30.0
Propionitrile	Ave	0.0121	0.0115		477	500	-4.7	30.0
Methacrylonitrile	Ave	0.0596	0.0567		476	500	-4.9	30.0
Bromochloromethane	Ave	0.1637	0.1629		49.7	50.0	-0.5	30.0
Chloroform	Ave	0.4876	0.4712		48.3	50.0	-3.4	30.0
Tetrahydrofuran	Ave	0.0241	0.0239		99.0	100	-1.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: ICV 490-233414/12 Calibration Date: 03/13/2015 15:50

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 031315-12.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.4579	0.4591		50.1	50.0	0.3	30.0
Cyclohexane	Ave	0.4005	0.3798		47.4	50.0	-5.2	30.0
1,1-Dichloropropene	Ave	0.3344	0.3604		53.9	50.0	7.8	30.0
Carbon tetrachloride	Ave	0.3997	0.4165		52.1	50.0	4.2	30.0
Isobutanol	Ave	0.0064	0.0065		513	500	2.6	30.0
Benzene	Ave	1.019	1.011		49.6	50.0	-0.7	30.0
t-Amyl alcohol	Ave	0.0054	0.0054		507	500	1.5	30.0
1,2-Dichloroethane	Ave	0.2954	0.2849		48.2	50.0	-3.5	30.0
Tert-amyl methyl ether	Ave	0.5018	0.4926		49.1	50.0	-1.8	30.0
Heptane	Ave	0.2724	0.2591		47.6	50.0	-4.9	30.0
n-Butanol	Ave	0.0017	0.0018		1282	1250	2.6	30.0
Trichloroethene	Ave	0.3147	0.3204		50.9	50.0	1.8	30.0
Ethyl acrylate	Lin1		0.1218		47.2	50.0	-5.5	
Methylcyclohexane	Ave	0.4588	0.4504		49.1	50.0	-1.8	30.0
1,2-Dichloropropane	Ave	0.2260	0.2256		49.9	50.0	-0.2	30.0
Methyl methacrylate	Ave	0.0994	0.0986		99.2	100	-0.8	30.0
Dibromomethane	Ave	0.1201	0.1172		48.8	50.0	-2.4	30.0
1,4-Dioxane	Ave	0.0006	0.0007		1227	1000	22.7	30.0
Bromodichloromethane	Ave	0.3310	0.3345		50.5	50.0	1.1	30.0
2-Nitropropane	Lin1		0.0261		88.0	100	-12.0	30.0
2-Chloroethyl vinyl ether	Ave	0.1070	0.1077		50.3	50.0	0.6	30.0
cis-1,3-Dichloropropene	Ave	0.4482	0.4697		52.4	50.0	4.8	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0485	0.0419		216	250	-13.4	30.0
Toluene	Ave	1.552	1.507		48.6	50.0	-2.9	30.0
trans-1,3-Dichloropropene	Ave	0.3412	0.3809		55.8	50.0	11.6	30.0
Ethyl methacrylate	Ave	0.2516	0.2356		46.8	50.0	-6.4	30.0
1,1,2-Trichloroethane	Ave	0.2262	0.2104		46.5	50.0	-7.0	30.0
Tetrachloroethene	Ave	0.4358	0.4328		49.7	50.0	-0.7	30.0
1,3-Dichloropropane	Ave	0.3490	0.3359		48.1	50.0	-3.7	30.0
2-Hexanone	Ave	0.0401	0.0356		222	250	-11.4	30.0
Chlorodibromomethane	Lin2		0.2073		50.7	50.0	1.4	30.0
n-Butyl acetate	Ave	0.1038	0.1082		52.1	50.0	4.2	30.0
1,2-Dibromoethane (EDB)	Ave	0.2025	0.2018		49.8	50.0	-0.4	30.0
1-Chlorohexane	Ave	0.3775	0.3782		50.1	50.0	0.2	30.0
Chlorobenzene	Ave	0.9832	0.9834	0.3000	50.0	50.0	0.0	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3315	0.3519		53.1	50.0	6.2	30.0
Ethylbenzene	Ave	1.634	1.654		50.6	50.0	1.3	30.0
m,p-Xylene	Ave	1.317	1.330		50.5	50.0	0.9	30.0
o-Xylene	Ave	1.305	1.336		51.2	50.0	2.4	30.0
Styrene	Ave	1.032	1.084		52.5	50.0	5.0	30.0
Bromoform	Ave	0.1272	0.1498	0.1000	58.9	50.0	17.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: ICV 490-233414/12 Calibration Date: 03/13/2015 15:50

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 031315-12.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	1.716	1.764		51.4	50.0	2.8	30.0
Cyclohexanone	Lin2		0.0022		518	500	3.7	30.0
Bromobenzene	Ave	0.9110	0.8984		49.3	50.0	-1.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3571	0.3510	0.3000	49.2	50.0	-1.7	30.0
1,2,3-Trichloropropane	Ave	0.1253	0.1219		48.6	50.0	-2.7	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0899		47.9	50.0	-4.3	30.0
N-Propylbenzene	Ave	3.255	3.363		51.7	50.0	3.3	30.0
2-Chlorotoluene	Ave	2.030	2.018		49.7	50.0	-0.6	30.0
1,3,5-Trimethylbenzene	Ave	2.478	2.549		51.4	50.0	2.9	30.0
4-Chlorotoluene	Ave	2.297	2.378		51.8	50.0	3.5	30.0
tert-Butylbenzene	Ave	2.206	2.237		50.7	50.0	1.4	30.0
1,2,4-Trimethylbenzene	Ave	2.510	2.536		50.5	50.0	1.1	30.0
sec-Butylbenzene	Ave	3.069	3.166		51.6	50.0	3.2	30.0
1,3-Dichlorobenzene	Ave	1.362	1.389		51.0	50.0	2.0	30.0
p-Isopropyltoluene	Ave	2.723	2.776		51.0	50.0	1.9	30.0
1,4-Dichlorobenzene	Ave	1.444	1.443		50.0	50.0	-0.0	30.0
1,2,3-Trimethylbenzene	Ave	2.410	2.426		50.3	50.0	0.7	30.0
Benzyl chloride	Lin1		0.4058		48.3	50.0	-3.4	30.0
1,2-Dichlorobenzene	Ave	1.203	1.219		50.7	50.0	1.3	30.0
n-Butylbenzene	Ave	2.065	2.177		52.7	50.0	5.4	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0678		49.2	50.0	-1.7	30.0
1,3,5-Trichlorobenzene	Ave	0.8004	0.8447		52.8	50.0	5.5	30.0
1,2,4-Trichlorobenzene	Ave	0.5849	0.6179		52.8	50.0	5.7	30.0
Hexachlorobutadiene	Ave	0.3135	0.3348		53.4	50.0	6.8	30.0
Naphthalene	Ave	0.9218	0.9291		50.4	50.0	0.8	30.0
1,2,3-Trichlorobenzene	Ave	0.4437	0.4398		49.6	50.0	-0.9	30.0
Dibromofluoromethane (Surr)	Ave	0.2485	0.2476		24.9	25.0	-0.4	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2302	0.2255		24.5	25.0	-2.0	30.0
Toluene-d8 (Surr)	Ave	1.280	1.269		24.8	25.0	-0.8	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8031	0.8032		25.0	25.0	0.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCVIS 490-240523/2 Calibration Date: 04/11/2015 00:06

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 041015-33.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2790	0.2204		49.4	62.5	-21.0*	20.0
Chloromethane	Ave	0.2073	0.2180	0.1000	65.7	62.5	5.1	20.0
Vinyl chloride	Ave	0.2498	0.2513		62.9	62.5	0.6	20.0
Butadiene	Ave	0.2166	0.2343		67.6	62.5	8.2	20.0
Bromomethane	Ave	0.1830	0.1460		49.9	62.5	-20.2*	20.0
Chloroethane	Ave	0.1650	0.1722		65.2	62.5	4.3	20.0
Dichlorofluoromethane	Ave	0.4650	0.4360		58.6	62.5	-6.2	20.0
Trichlorofluoromethane	Ave	0.4717	0.3894		51.6	62.5	-17.4	20.0
Ethanol	Lin1		0.0004		2879	2000	44.0*	40.0
Diethyl ether	Ave	0.1271	0.1448		57.0	50.0	13.9	20.0
Acrolein	Lin1		0.0128		226	125	81.1*	40.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2632	0.2391		45.4	50.0	-9.2	20.0
1,1-Dichloroethene	Ave	0.2344	0.2275		48.5	50.0	-2.9	20.0
Acetone	Ave	0.0074	0.0089		300	250	19.9	20.0
Iodomethane	Lin1		0.3115		43.2	50.0	-13.5	20.0
Isopropyl alcohol	Lin1		0.0045		623	500	24.6*	20.0
Carbon disulfide	Ave	0.5713	0.6490		56.8	50.0	13.6	20.0
3-Chloro-1-propene	Ave	0.1558	0.1422		45.7	50.0	-8.7	20.0
Acetonitrile	Ave	0.0396	0.0451		569	500	13.8	20.0
Methyl acetate	Ave	0.0926	0.0817		221	250	-11.8	20.0
Methylene Chloride	Lin2		0.2357		49.6	50.0	-0.7	20.0
tert-Butyl alcohol (TBA)	Ave	0.0066	0.0079		601	500	20.2	40.0
Acrylonitrile	Ave	0.0340	0.0396		582	500	16.5	20.0
Methyl tert-butyl ether	Ave	0.4782	0.4650		48.6	50.0	-2.8	20.0
trans-1,2-Dichloroethene	Ave	0.3145	0.3305		52.5	50.0	5.1	20.0
Hexane	Ave	0.3059	0.3351		54.8	50.0	9.6	20.0
1,1-Dichloroethane	Ave	0.4187	0.4349	0.1000	51.9	50.0	3.8	20.0
Vinyl acetate	Ave	0.1854	0.3862		208	100	108.3*	40.0
Diisopropyl ether	Ave	0.5891	0.6864		58.3	50.0	16.5	20.0
Chloroprene	Ave	0.3567	0.3772		52.9	50.0	5.7	20.0
Ethyl tert-butyl ether	Ave	0.5568	0.5834		52.4	50.0	4.8	20.0
2,2-Dichloropropane	Ave	0.4061	0.3477		42.8	50.0	-14.4	20.0
cis-1,2-Dichloroethene	Ave	0.3786	0.3768		49.8	50.0	-0.5	20.0
2-Butanone (MEK)	Ave	0.0120	0.0126		263	250	5.2	20.0
Ethyl acetate	Ave	0.0675	0.1139		169	100	68.8*	20.0
Propionitrile	Ave	0.0121	0.0143		592	500	18.3	20.0
Methacrylonitrile	Ave	0.0596	0.0697		585	500	16.9	20.0
Bromochloromethane	Ave	0.1637	0.1452		44.3	50.0	-11.3	20.0
Chloroform	Ave	0.4876	0.4286		44.0	50.0	-12.1	20.0
Tetrahydrofuran	Ave	0.0241	0.0309		128	100	28.1*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCVIS 490-240523/2 Calibration Date: 04/11/2015 00:06

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 041015-33.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.4579	0.3873		42.3	50.0	-15.4	20.0
Cyclohexane	Ave	0.4005	0.4316		53.9	50.0	7.8	20.0
1,1-Dichloropropene	Ave	0.3344	0.3539		52.9	50.0	5.8	20.0
Carbon tetrachloride	Ave	0.3997	0.3432		42.9	50.0	-14.1	20.0
Isobutanol	Ave	0.0064	0.0034		672	1250	-46.2*	20.0
Benzene	Ave	1.019	1.016		49.9	50.0	-0.3	20.0
t-Amyl alcohol	Ave	0.0054	0.0064		594	500	18.8	40.0
1,2-Dichloroethane	Ave	0.2954	0.2662		45.1	50.0	-9.9	20.0
Tert-amyl methyl ether	Ave	0.5018	0.4910		48.9	50.0	-2.2	20.0
Heptane	Ave	0.2724	0.2929		53.8	50.0	7.5	20.0
n-Butanol	Ave	0.0017	0.0023		1623	1250	29.9*	20.0
Trichloroethene	Ave	0.3147	0.2783		44.2	50.0	-11.6	20.0
Ethyl acrylate	Lin1		0.1360		52.6	50.0	5.2	20.0
Methylcyclohexane	Ave	0.4588	0.4520		49.3	50.0	-1.5	20.0
1,2-Dichloropropane	Ave	0.2260	0.2377		52.6	50.0	5.2	20.0
Methyl methacrylate	Ave	0.0994	0.1119		113	100	12.5	20.0
Dibromomethane	Ave	0.1201	0.1073		44.6	50.0	-10.7	20.0
1,4-Dioxane	Ave	0.0006	0.0008		1428	1000	42.8*	20.0
Bromodichloromethane	Ave	0.3310	0.2997		45.3	50.0	-9.4	20.0
2-Nitropropane	Lin1		0.0321		108	100	8.2	20.0
2-Chloroethyl vinyl ether	Ave	0.1070	0.1159		54.1	50.0	8.2	20.0
cis-1,3-Dichloropropene	Ave	0.4482	0.4684		52.3	50.0	4.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0485	0.0537		277	250	10.7	20.0
Toluene	Ave	1.552	1.442		46.5	50.0	-7.1	20.0
trans-1,3-Dichloropropene	Ave	0.3412	0.3587		52.6	50.0	5.1	20.0
Ethyl methacrylate	Ave	0.2516	0.2490		49.5	50.0	-1.0	20.0
1,1,2-Trichloroethane	Ave	0.2262	0.2056		45.4	50.0	-9.1	20.0
Tetrachloroethene	Ave	0.4358	0.3718		42.7	50.0	-14.7	20.0
1,3-Dichloropropane	Ave	0.3490	0.3698		53.0	50.0	5.9	20.0
2-Hexanone	Ave	0.0401	0.0496		309	250	23.6*	20.0
Chlorodibromomethane	Lin2		0.1923		47.0	50.0	-5.9	20.0
n-Butyl acetate	Ave	0.1038	0.1599		77.0	50.0	54.0*	20.0
1,2-Dibromoethane (EDB)	Ave	0.2025	0.1968		48.6	50.0	-2.8	20.0
1-Chlorohexane	Ave	0.3775	0.3698		49.0	50.0	-2.0	20.0
Chlorobenzene	Ave	0.9832	0.9665	0.3000	49.2	50.0	-1.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3315	0.3227		48.7	50.0	-2.6	20.0
Ethylbenzene	Ave	1.634	1.657		50.7	50.0	1.4	20.0
m,p-Xylene	Ave	1.317	1.305		49.5	50.0	-1.0	20.0
o-Xylene	Ave	1.305	1.315		50.4	50.0	0.8	20.0
Styrene	Ave	1.032	1.070		51.8	50.0	3.7	20.0
Bromoform	Ave	0.1272	0.1255	0.1000	49.3	50.0	-1.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCVIS 490-240523/2 Calibration Date: 04/11/2015 00:06

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 041015-33.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	1.716	1.665		48.5	50.0	-3.0	20.0
Cyclohexanone	Lin2		0.0078		1847	500	269.5*	20.0
Bromobenzene	Ave	0.9110	1.004		55.1	50.0	10.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.3571	0.3920	0.3000	54.9	50.0	9.8	20.0
1,2,3-Trichloropropane	Ave	0.1253	0.1282		51.2	50.0	2.3	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1216		64.4	50.0	28.9*	20.0
N-Propylbenzene	Ave	3.255	3.676		56.5	50.0	12.9	20.0
2-Chlorotoluene	Ave	2.030	2.171		53.5	50.0	7.0	20.0
1,3,5-Trimethylbenzene	Ave	2.478	2.655		53.6	50.0	7.2	20.0
4-Chlorotoluene	Ave	2.297	2.535		55.2	50.0	10.3	20.0
tert-Butylbenzene	Ave	2.206	2.281		51.7	50.0	3.4	20.0
1,2,4-Trimethylbenzene	Ave	2.510	2.666		53.1	50.0	6.2	20.0
sec-Butylbenzene	Ave	3.069	3.365		54.8	50.0	9.7	20.0
1,3-Dichlorobenzene	Ave	1.362	1.397		51.3	50.0	2.6	20.0
p-Isopropyltoluene	Ave	2.723	2.915		53.5	50.0	7.1	20.0
1,4-Dichlorobenzene	Ave	1.444	1.412		48.9	50.0	-2.2	20.0
1,2,3-Trimethylbenzene	Ave	2.410	2.536		52.6	50.0	5.2	20.0
Benzyl chloride	Lin1		0.3120		37.3	50.0	-25.5*	20.0
1,2-Dichlorobenzene	Ave	1.203	1.218		50.6	50.0	1.2	20.0
n-Butylbenzene	Ave	2.065	2.387		57.8	50.0	15.6	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0641		46.5	50.0	-6.9	20.0
1,3,5-Trichlorobenzene	Ave	0.8004	0.8361		52.2	50.0	4.5	20.0
1,2,4-Trichlorobenzene	Ave	0.5849	0.6080		52.0	50.0	4.0	20.0
Hexachlorobutadiene	Ave	0.3135	0.3317		52.9	50.0	5.8	20.0
Naphthalene	Ave	0.9218	0.9419		51.1	50.0	2.2	20.0
1,2,3-Trichlorobenzene	Ave	0.4437	0.4266		48.1	50.0	-3.9	20.0
Dibromofluoromethane (Surr)	Ave	0.2485	0.2317		23.3	25.0	-6.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2302	0.2250		24.4	25.0	-2.3	30.0
Toluene-d8 (Surr)	Ave	1.280	1.255		24.5	25.0	-1.9	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8031	0.8637		26.9	25.0	7.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCVIS 490-240526/2 Calibration Date: 04/11/2015 11:57

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 041015-60.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2790	0.2373		53.2	62.5	-15.0	20.0
Chloromethane	Ave	0.2073	0.2610	0.1000	78.7	62.5	25.9*	20.0
Vinyl chloride	Ave	0.2498	0.2940		73.6	62.5	17.7	20.0
Butadiene	Ave	0.2166	0.2652		76.5	62.5	22.5*	20.0
Bromomethane	Ave	0.1830	0.1803		61.6	62.5	-1.5	20.0
Chloroethane	Ave	0.1650	0.1896		71.8	62.5	14.9	20.0
Dichlorofluoromethane	Ave	0.4650	0.4638		62.3	62.5	-0.3	20.0
Trichlorofluoromethane	Ave	0.4717	0.3958		52.5	62.5	-16.1	20.0
Ethanol	Lin1		0.0004		2982	2000	49.1*	40.0
Diethyl ether	Ave	0.1271	0.1572		61.9	50.0	23.7*	20.0
Acrolein	Lin1		0.0139		246	125	96.6*	40.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2632	0.2395		45.5	50.0	-9.0	20.0
1,1-Dichloroethene	Ave	0.2344	0.2353		50.2	50.0	0.4	20.0
Acetone	Ave	0.0074	0.0093		313	250	25.4*	20.0
Iodomethane	Lin1		0.2454		34.2	50.0	-31.7*	20.0
Isopropyl alcohol	Lin1		0.0046		639	500	27.8*	20.0
Carbon disulfide	Ave	0.5713	0.6885		60.3	50.0	20.5*	20.0
3-Chloro-1-propene	Ave	0.1558	0.1484		47.6	50.0	-4.8	20.0
Acetonitrile	Ave	0.0396	0.0484		611	500	22.2*	20.0
Methyl acetate	Ave	0.0926	0.0908		245	250	-1.9	20.0
Methylene Chloride	Lin2		0.2468		52.0	50.0	4.0	20.0
tert-Butyl alcohol (TBA)	Ave	0.0066	0.0079		604	500	20.8	40.0
Acrylonitrile	Ave	0.0340	0.0439		646	500	29.2*	20.0
Methyl tert-butyl ether	Ave	0.4782	0.4790		50.1	50.0	0.2	20.0
trans-1,2-Dichloroethene	Ave	0.3145	0.3445		54.8	50.0	9.5	20.0
Hexane	Ave	0.3059	0.3260		53.3	50.0	6.6	20.0
1,1-Dichloroethane	Ave	0.4187	0.4598	0.1000	54.9	50.0	9.8	20.0
Vinyl acetate	Ave	0.1854	0.4556		246	100	145.7*	40.0
Diisopropyl ether	Ave	0.5891	0.7367		62.5	50.0	25.0*	20.0
Chloroprene	Ave	0.3567	0.3908		54.8	50.0	9.6	20.0
Ethyl tert-butyl ether	Ave	0.5568	0.5977		53.7	50.0	7.3	20.0
2,2-Dichloropropane	Ave	0.4061	0.2875		35.4	50.0	-29.2*	20.0
cis-1,2-Dichloroethene	Ave	0.3786	0.3868		51.1	50.0	2.2	20.0
2-Butanone (MEK)	Ave	0.0120	0.0134		280	250	12.0	20.0
Ethyl acetate	Ave	0.0675	0.1238		184	100	83.5*	20.0
Propionitrile	Ave	0.0121	0.0155		641	500	28.2*	20.0
Methacrylonitrile	Ave	0.0596	0.0758		635	500	27.1*	20.0
Bromochloromethane	Ave	0.1637	0.1442		44.1	50.0	-11.9	20.0
Chloroform	Ave	0.4876	0.4370		44.8	50.0	-10.4	20.0
Tetrahydrofuran	Ave	0.0241	0.0351		145	100	45.3*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCVIS 490-240526/2 Calibration Date: 04/11/2015 11:57

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 041015-60.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.4579	0.3829		41.8	50.0	-16.4	20.0
Cyclohexane	Ave	0.4005	0.4536		56.6	50.0	13.3	20.0
1,1-Dichloropropene	Ave	0.3344	0.3621		54.1	50.0	8.3	20.0
Carbon tetrachloride	Ave	0.3997	0.3413		42.7	50.0	-14.6	20.0
Isobutanol	Ave	0.0064	0.0037		733	1250	-41.4*	20.0
Benzene	Ave	1.019	1.061		52.1	50.0	4.2	20.0
t-Amyl alcohol	Ave	0.0054	0.0062		575	500	15.1	40.0
1,2-Dichloroethane	Ave	0.2954	0.2724		46.1	50.0	-7.8	20.0
Tert-amyl methyl ether	Ave	0.5018	0.4958		49.4	50.0	-1.2	20.0
Heptane	Ave	0.2724	0.2671		49.0	50.0	-1.9	20.0
n-Butanol	Ave	0.0017	0.0023		1635	1250	30.8*	20.0
Trichloroethene	Ave	0.3147	0.2813		44.7	50.0	-10.6	20.0
Ethyl acrylate	Lin1		0.1427		55.1	50.0	10.2	20.0
Methylcyclohexane	Ave	0.4588	0.4555		49.6	50.0	-0.7	20.0
1,2-Dichloropropane	Ave	0.2260	0.2561		56.7	50.0	13.3	20.0
Methyl methacrylate	Ave	0.0994	0.1206		121	100	21.3*	20.0
Dibromomethane	Ave	0.1201	0.1102		45.9	50.0	-8.2	20.0
1,4-Dioxane	Ave	0.0006	0.0009		1630	1000	63.0*	20.0
Bromodichloromethane	Ave	0.3310	0.3062		46.3	50.0	-7.5	20.0
2-Nitropropane	Lin1		0.0320		108	100	7.9	20.0
2-Chloroethyl vinyl ether	Ave	0.1070	0.1228		57.4	50.0	14.8	20.0
cis-1,3-Dichloropropene	Ave	0.4482	0.4758		53.1	50.0	6.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0485	0.0579		299	250	19.5	20.0
Toluene	Ave	1.552	1.518		48.9	50.0	-2.2	20.0
trans-1,3-Dichloropropene	Ave	0.3412	0.3556		52.1	50.0	4.2	20.0
Ethyl methacrylate	Ave	0.2516	0.2608		51.8	50.0	3.7	20.0
1,1,2-Trichloroethane	Ave	0.2262	0.2191		48.4	50.0	-3.1	20.0
Tetrachloroethene	Ave	0.4358	0.3734		42.8	50.0	-14.3	20.0
1,3-Dichloropropane	Ave	0.3490	0.3955		56.7	50.0	13.3	20.0
2-Hexanone	Ave	0.0401	0.0534		333	250	33.1*	20.0
Chlorodibromomethane	Lin2		0.1984		48.5	50.0	-2.9	20.0
n-Butyl acetate	Ave	0.1038	0.1744		84.0	50.0	68.0*	20.0
1,2-Dibromoethane (EDB)	Ave	0.2025	0.2066		51.0	50.0	2.0	20.0
1-Chlorohexane	Ave	0.3775	0.3632		48.1	50.0	-3.8	20.0
Chlorobenzene	Ave	0.9832	0.996	0.3000	50.6	50.0	1.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3315	0.3275		49.4	50.0	-1.2	20.0
Ethylbenzene	Ave	1.634	1.689		51.7	50.0	3.4	20.0
m,p-Xylene	Ave	1.317	1.309		49.7	50.0	-0.6	20.0
o-Xylene	Ave	1.305	1.342		51.4	50.0	2.9	20.0
Styrene	Ave	1.032	1.088		52.7	50.0	5.4	20.0
Bromoform	Ave	0.1272	0.1277	0.1000	50.2	50.0	0.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCVIS 490-240526/2 Calibration Date: 04/11/2015 11:57

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 041015-60.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	1.716	1.674		48.8	50.0	-2.4	20.0
Cyclohexanone	Lin2		0.0040		936	500	87.3*	20.0
Bromobenzene	Ave	0.9110	1.054		57.9	50.0	15.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.3571	0.4359	0.3000	61.0	50.0	22.1*	20.0
1,2,3-Trichloropropane	Ave	0.1253	0.1347		53.7	50.0	7.5	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.0992		52.7	50.0	5.4	20.0
N-Propylbenzene	Ave	3.255	3.797		58.3	50.0	16.7	20.0
2-Chlorotoluene	Ave	2.030	2.256		55.6	50.0	11.1	20.0
1,3,5-Trimethylbenzene	Ave	2.478	2.721		54.9	50.0	9.8	20.0
4-Chlorotoluene	Ave	2.297	2.598		56.6	50.0	13.1	20.0
tert-Butylbenzene	Ave	2.206	2.337		53.0	50.0	5.9	20.0
1,2,4-Trimethylbenzene	Ave	2.510	2.748		54.7	50.0	9.5	20.0
sec-Butylbenzene	Ave	3.069	3.452		56.2	50.0	12.5	20.0
1,3-Dichlorobenzene	Ave	1.362	1.443		53.0	50.0	5.9	20.0
p-Isopropyltoluene	Ave	2.723	2.986		54.8	50.0	9.7	20.0
1,4-Dichlorobenzene	Ave	1.444	1.468		50.8	50.0	1.7	20.0
1,2,3-Trimethylbenzene	Ave	2.410	2.611		54.2	50.0	8.3	20.0
Benzyl chloride	Lin1		0.2217		26.6	50.0	-46.8*	20.0
1,2-Dichlorobenzene	Ave	1.203	1.275		53.0	50.0	6.0	20.0
n-Butylbenzene	Ave	2.065	2.454		59.4	50.0	18.8	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0659		47.8	50.0	-4.5	20.0
1,3,5-Trichlorobenzene	Ave	0.8004	0.8381		52.4	50.0	4.7	20.0
1,2,4-Trichlorobenzene	Ave	0.5849	0.6084		52.0	50.0	4.0	20.0
Hexachlorobutadiene	Ave	0.3135	0.3266		52.1	50.0	4.2	20.0
Naphthalene	Ave	0.9218	0.9289		50.4	50.0	0.8	20.0
1,2,3-Trichlorobenzene	Ave	0.4437	0.4263		48.0	50.0	-3.9	20.0
Dibromofluoromethane (Surr)	Ave	0.2485	0.2311		23.3	25.0	-7.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2302	0.2227		24.2	25.0	-3.3	30.0
Toluene-d8 (Surr)	Ave	1.280	1.273		24.9	25.0	-0.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8031	0.8703		27.1	25.0	8.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCVIS 490-241067/2 Calibration Date: 04/14/2015 11:16

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 041415-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2790	0.2661		59.6	62.5	-4.6	20.0
Chloromethane	Ave	0.2073	0.2428	0.1000	73.2	62.5	17.1	20.0
Vinyl chloride	Ave	0.2498	0.2875		72.0	62.5	15.1	20.0
Butadiene	Ave	0.2166	0.2549		73.5	62.5	17.7	20.0
Bromomethane	Ave	0.1830	0.1898		64.8	62.5	3.7	20.0
Chloroethane	Ave	0.1650	0.1876		71.0	62.5	13.6	20.0
Dichlorofluoromethane	Ave	0.4650	0.4640		62.4	62.5	-0.2	20.0
Trichlorofluoromethane	Ave	0.4717	0.4141		54.9	62.5	-12.2	20.0
Ethanol	Lin1		0.0004		2761	2000	38.1	40.0
Diethyl ether	Ave	0.1271	0.1380		54.3	50.0	8.6	20.0
Acrolein	Lin1		0.0124		220	125	76.1*	40.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2632	0.2513		47.7	50.0	-4.5	20.0
1,1-Dichloroethene	Ave	0.2344	0.2395		51.1	50.0	2.2	20.0
Acetone	Ave	0.0074	0.0076		257	250	2.8	20.0
Iodomethane	Lin1		0.2432		33.9	50.0	-32.3*	20.0
Isopropyl alcohol	Lin1		0.0039		545	500	8.9	20.0
Carbon disulfide	Ave	0.5713	0.6332		55.4	50.0	10.8	20.0
3-Chloro-1-propene	Ave	0.1558	0.1981		63.6	50.0	27.1*	20.0
Acetonitrile	Ave	0.0396	0.0426		537	500	7.4	20.0
Methyl acetate	Ave	0.0926	0.0735		199	250	-20.6*	20.0
Methylene Chloride	Lin2		0.2424		51.1	50.0	2.1	20.0
tert-Butyl alcohol (TBA)	Ave	0.0066	0.0069		528	500	5.5	40.0
Acrylonitrile	Ave	0.0340	0.0371		546	500	9.2	20.0
Methyl tert-butyl ether	Ave	0.4782	0.4423		46.2	50.0	-7.5	20.0
trans-1,2-Dichloroethene	Ave	0.3145	0.3319		52.8	50.0	5.5	20.0
Hexane	Ave	0.3059	0.3540		57.9	50.0	15.7	20.0
1,1-Dichloroethane	Ave	0.4187	0.4389	0.1000	52.4	50.0	4.8	20.0
Vinyl acetate	Ave	0.1854	0.3993		215	100	115.4*	40.0
Diisopropyl ether	Ave	0.5891	0.6338		53.8	50.0	7.6	20.0
Chloroprene	Ave	0.3567	0.3689		51.7	50.0	3.4	20.0
Ethyl tert-butyl ether	Ave	0.5568	0.5381		48.3	50.0	-3.4	20.0
2,2-Dichloropropane	Ave	0.4061	0.3813		47.0	50.0	-6.1	20.0
cis-1,2-Dichloroethene	Ave	0.3786	0.3843		50.8	50.0	1.5	20.0
2-Butanone (MEK)	Ave	0.0120	0.0122		254	250	1.6	20.0
Ethyl acetate	Ave	0.0675	0.1029		153	100	52.5*	20.0
Propionitrile	Ave	0.0121	0.0134		556	500	11.2	20.0
Methacrylonitrile	Ave	0.0596	0.0627		526	500	5.2	20.0
Bromochloromethane	Ave	0.1637	0.1499		45.8	50.0	-8.4	20.0
Chloroform	Ave	0.4876	0.4438		45.5	50.0	-9.0	20.0
Tetrahydrofuran	Ave	0.0241	0.0273		113	100	13.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCVIS 490-241067/2 Calibration Date: 04/14/2015 11:16

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 041415-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.4579	0.3969		43.3	50.0	-13.3	20.0
Cyclohexane	Ave	0.4005	0.4254		53.1	50.0	6.2	20.0
1,1-Dichloropropene	Ave	0.3344	0.3658		54.7	50.0	9.4	20.0
Carbon tetrachloride	Ave	0.3997	0.3615		45.2	50.0	-9.6	20.0
Isobutanol	Ave	0.0064	0.0031		600	1250	-52.0*	20.0
Benzene	Ave	1.019	1.061		52.1	50.0	4.1	20.0
t-Amyl alcohol	Ave	0.0054	0.0056		526	500	5.3	40.0
1,2-Dichloroethane	Ave	0.2954	0.2571		43.5	50.0	-13.0	20.0
Tert-amyl methyl ether	Ave	0.5018	0.4608		45.9	50.0	-8.2	20.0
Heptane	Ave	0.2724	0.3077		56.5	50.0	13.0	20.0
n-Butanol	Ave	0.0017	0.0020		1467	1250	17.4	20.0
Trichloroethene	Ave	0.3147	0.2970		47.2	50.0	-5.6	20.0
Ethyl acrylate	Lin1		0.1276		49.4	50.0	-1.2	20.0
Methylcyclohexane	Ave	0.4588	0.4676		51.0	50.0	1.9	20.0
1,2-Dichloropropane	Ave	0.2260	0.2420		53.5	50.0	7.1	20.0
Methyl methacrylate	Ave	0.0994	0.0977		98.4	100	-1.6	20.0
Dibromomethane	Ave	0.1201	0.1067		44.4	50.0	-11.2	20.0
1,4-Dioxane	Ave	0.0006	0.0008		1462	1000	46.2*	20.0
Bromodichloromethane	Ave	0.3310	0.3006		45.4	50.0	-9.2	20.0
2-Nitropropane	Lin1		0.0276		93.0	100	-7.0	20.0
2-Chloroethyl vinyl ether	Ave	0.1070	0.1102		51.5	50.0	3.0	20.0
cis-1,3-Dichloropropene	Ave	0.4482	0.4769		53.2	50.0	6.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0485	0.0505		261	250	4.3	20.0
Toluene	Ave	1.552	1.527		49.2	50.0	-1.6	20.0
trans-1,3-Dichloropropene	Ave	0.3412	0.3512		51.5	50.0	2.9	20.0
Ethyl methacrylate	Ave	0.2516	0.2396		47.6	50.0	-4.8	20.0
1,1,2-Trichloroethane	Ave	0.2262	0.2064		45.6	50.0	-8.7	20.0
Tetrachloroethene	Ave	0.4358	0.4014		46.1	50.0	-7.9	20.0
1,3-Dichloropropane	Ave	0.3490	0.3599		51.6	50.0	3.1	20.0
2-Hexanone	Ave	0.0401	0.0436		272	250	8.6	20.0
Chlorodibromomethane	Lin2		0.1997		48.8	50.0	-2.3	20.0
n-Butyl acetate	Ave	0.1038	0.1328		63.9	50.0	27.9*	20.0
1,2-Dibromoethane (EDB)	Ave	0.2025	0.1988		49.1	50.0	-1.9	20.0
1-Chlorohexane	Ave	0.3775	0.3743		49.6	50.0	-0.8	20.0
Chlorobenzene	Ave	0.9832	0.996	0.3000	50.7	50.0	1.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3315	0.3320		50.1	50.0	0.2	20.0
Ethylbenzene	Ave	1.634	1.695		51.9	50.0	3.8	20.0
m,p-Xylene	Ave	1.317	1.311		49.8	50.0	-0.5	20.0
o-Xylene	Ave	1.305	1.338		51.3	50.0	2.5	20.0
Styrene	Ave	1.032	1.079		52.3	50.0	4.6	20.0
Bromoform	Ave	0.1272	0.1308	0.1000	51.4	50.0	2.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCVIS 490-241067/2 Calibration Date: 04/14/2015 11:16

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 041415-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	1.716	1.695		49.4	50.0	-1.2	20.0
Cyclohexanone	Lin2		0.0035		821	500	64.3*	20.0
Bromobenzene	Ave	0.9110	0.9413		51.7	50.0	3.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.3571	0.3800	0.3000	53.2	50.0	6.4	20.0
1,2,3-Trichloropropane	Ave	0.1253	0.1183		47.2	50.0	-5.6	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.0910		48.4	50.0	-3.1	20.0
N-Propylbenzene	Ave	3.255	3.569		54.8	50.0	9.6	20.0
2-Chlorotoluene	Ave	2.030	2.065		50.9	50.0	1.7	20.0
1,3,5-Trimethylbenzene	Ave	2.478	2.584		52.2	50.0	4.3	20.0
4-Chlorotoluene	Ave	2.297	2.439		53.1	50.0	6.2	20.0
tert-Butylbenzene	Ave	2.206	2.229		50.5	50.0	1.0	20.0
1,2,4-Trimethylbenzene	Ave	2.510	2.588		51.6	50.0	3.1	20.0
sec-Butylbenzene	Ave	3.069	3.263		53.2	50.0	6.3	20.0
1,3-Dichlorobenzene	Ave	1.362	1.395		51.2	50.0	2.5	20.0
p-Isopropyltoluene	Ave	2.723	2.886		53.0	50.0	6.0	20.0
1,4-Dichlorobenzene	Ave	1.444	1.422		49.3	50.0	-1.5	20.0
1,2,3-Trimethylbenzene	Ave	2.410	2.472		51.3	50.0	2.6	20.0
Benzyl chloride	Lin1		0.3632		43.3	50.0	-13.4	20.0
1,2-Dichlorobenzene	Ave	1.203	1.231		51.2	50.0	2.4	20.0
n-Butylbenzene	Ave	2.065	2.358		57.1	50.0	14.2	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0667		48.4	50.0	-3.3	20.0
1,3,5-Trichlorobenzene	Ave	0.8004	0.8810		55.0	50.0	10.1	20.0
1,2,4-Trichlorobenzene	Ave	0.5849	0.6929		59.2	50.0	18.5	20.0
Hexachlorobutadiene	Ave	0.3135	0.3478		55.5	50.0	10.9	20.0
Naphthalene	Ave	0.9218	1.150		62.4	50.0	24.7*	20.0
1,2,3-Trichlorobenzene	Ave	0.4437	0.5498		62.0	50.0	23.9*	20.0
Dibromofluoromethane (Surr)	Ave	0.2485	0.2363		23.8	25.0	-4.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2302	0.2100		22.8	25.0	-8.8	30.0
Toluene-d8 (Surr)	Ave	1.280	1.269		24.8	25.0	-0.8	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8031	0.8012		24.9	25.0	-0.2	30.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-240523/6

Matrix: Water | Lab File ID: 041015-37.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 01:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240523 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-240526/6

Matrix: Water | Lab File ID: 041015-64.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 13:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240526 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-240821/7

Matrix: Water | Lab File ID: 041315-07.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/13/2015 13:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240821 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-241067/7

Matrix: Water | Lab File ID: 041415-07.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 13:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 241067 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 490-240523/3

Matrix: Water Lab File ID: 041015-34.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 10(mL) Date Analyzed: 04/11/2015 00:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 240523 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	48.85		1.00	0.210
75-35-4	1,1-Dichloroethene	47.38		1.00	0.250
127-18-4	Tetrachloroethene	42.46		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	50.82		1.00	0.230
79-01-6	Trichloroethene	43.07		1.00	0.200
75-01-4	Vinyl chloride	64.22		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	111		70-130
1868-53-7	Dibromofluoromethane (Surr)	93		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-240526/3

Matrix: Water | Lab File ID: 041015-61.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 12:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240526 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	50.14		1.00	0.210
75-35-4	1,1-Dichloroethene	49.70		1.00	0.250
127-18-4	Tetrachloroethene	42.45		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	54.25		1.00	0.230
79-01-6	Trichloroethene	43.42		1.00	0.200
75-01-4	Vinyl chloride	72.94		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		70-130
1868-53-7	Dibromofluoromethane (Surr)	91		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-240821/3

Matrix: Water | Lab File ID: 041315-03.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/13/2015 11:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240821 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	44.52		1.00	0.210
75-35-4	1,1-Dichloroethene	44.33		1.00	0.250
127-18-4	Tetrachloroethene	54.33		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	43.06		1.00	0.230
79-01-6	Trichloroethene	53.86		1.00	0.200
75-01-4	Vinyl chloride	63.99		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-241067/3

Matrix: Water | Lab File ID: 041415-03.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 11:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 241067 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	50.69		1.00	0.210
75-35-4	1,1-Dichloroethene	51.00		1.00	0.250
127-18-4	Tetrachloroethene	45.96		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	52.53		1.00	0.230
79-01-6	Trichloroethene	46.40		1.00	0.200
75-01-4	Vinyl chloride	71.63		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 490-240821/4

Matrix: Water | Lab File ID: 041315-04.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/13/2015 11:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240821 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	44.72		1.00	0.210
75-35-4	1,1-Dichloroethene	44.28		1.00	0.250
127-18-4	Tetrachloroethene	52.32		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	43.01		1.00	0.230
79-01-6	Trichloroethene	53.26		1.00	0.200
75-01-4	Vinyl chloride	62.74		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 490-241067/4

Matrix: Water | Lab File ID: 041415-04.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/14/2015 12:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 241067 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	51.82		1.00	0.210
75-35-4	1,1-Dichloroethene	51.62		1.00	0.250
127-18-4	Tetrachloroethene	46.78		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	53.43		1.00	0.230
79-01-6	Trichloroethene	47.40		1.00	0.200
75-01-4	Vinyl chloride	72.44		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-702-GW-040315 MS | Lab Sample ID: 490-75933-11 MS

Matrix: Water | Lab File ID: 041015-57.D

Analysis Method: 8260B | Date Collected: 04/03/2015 09:50

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 10:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240523 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	62.28		1.00	0.210
75-35-4	1,1-Dichloroethene	52.39		1.00	0.250
127-18-4	Tetrachloroethene	284.3		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	56.19		1.00	0.230
79-01-6	Trichloroethene	71.42		1.00	0.200
75-01-4	Vinyl chloride	71.55		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		70-130
1868-53-7	Dibromofluoromethane (Surr)	92		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPMW-11-GW-HS-040315 MS | Lab Sample ID: 490-75933-22 MS

Matrix: Water | Lab File ID: 041315-24.D

Analysis Method: 8260B | Date Collected: 04/03/2015 17:05

Sample wt/vol: 10(mL) | Date Analyzed: 04/13/2015 21:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240821 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	46.48		1.00	0.210
75-35-4	1,1-Dichloroethene	46.25		1.00	0.250
127-18-4	Tetrachloroethene	122.1		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	44.63		1.00	0.230
79-01-6	Trichloroethene	172.0		1.00	0.200
75-01-4	Vinyl chloride	60.74		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	90		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-702-GW-040315 MSD | Lab Sample ID: 490-75933-11 MSD

Matrix: Water | Lab File ID: 041015-58.D

Analysis Method: 8260B | Date Collected: 04/03/2015 09:50

Sample wt/vol: 10(mL) | Date Analyzed: 04/11/2015 11:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 240523 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	62.86		1.00	0.210
75-35-4	1,1-Dichloroethene	54.17		1.00	0.250
127-18-4	Tetrachloroethene	295.6		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	56.70		1.00	0.230
79-01-6	Trichloroethene	72.83		1.00	0.200
75-01-4	Vinyl chloride	72.74		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		70-130
1868-53-7	Dibromofluoromethane (Surr)	93		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPMW-11-GW-HS-040315 MSD Lab Sample ID: 490-75933-22 MSD

Matrix: Water Lab File ID: 041315-25.D

Analysis Method: 8260B Date Collected: 04/03/2015 17:05

Sample wt/vol: 10(mL) Date Analyzed: 04/13/2015 21:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 240821 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	46.84		1.00	0.210
75-35-4	1,1-Dichloroethene	47.79		1.00	0.250
127-18-4	Tetrachloroethene	127.6		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	45.60		1.00	0.230
79-01-6	Trichloroethene	178.1		1.00	0.200
75-01-4	Vinyl chloride	63.47		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP25 Start Date: 04/01/2015 13:25

Analysis Batch Number: 238076 End Date: 04/01/2015 18:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-238076/4		04/01/2015 13:25	1	040115-04.D	DB-624 0.18(mm)
STD0005 490-238076/5 IC		04/01/2015 13:52	1	040115-05.D	DB-624 0.18(mm)
STD001 490-238076/6 IC		04/01/2015 14:19	1	040115-06.D	DB-624 0.18(mm)
STD002 490-238076/7 IC		04/01/2015 14:47	1	040115-07.D	DB-624 0.18(mm)
STD010 490-238076/8 IC		04/01/2015 15:14	1	040115-08.D	DB-624 0.18(mm)
STD020 490-238076/9 IC		04/01/2015 15:42	1	040115-09.D	DB-624 0.18(mm)
ICIS 490-238076/10		04/01/2015 16:09	1	040115-10.D	DB-624 0.18(mm)
STD100 490-238076/11 IC		04/01/2015 16:37	1	040115-11.D	DB-624 0.18(mm)
STD200 490-238076/12 IC		04/01/2015 17:04	1	040115-12.D	DB-624 0.18(mm)
ICV 490-238076/15		04/01/2015 18:26	1	040115-15.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP25 Start Date: 04/13/2015 10:15

Analysis Batch Number: 240821 End Date: 04/13/2015 21:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-240821/1		04/13/2015 10:15	1	041315-01.D	DB-624 0.18(mm)
CCVIS 490-240821/2		04/13/2015 10:44	1	041315-02.D	DB-624 0.18(mm)
LCS 490-240821/3		04/13/2015 11:12	1	041315-03.D	DB-624 0.18(mm)
LCSD 490-240821/4		04/13/2015 11:41	1	041315-04.D	DB-624 0.18(mm)
MB 490-240821/7		04/13/2015 13:06	1	041315-07.D	DB-624 0.18(mm)
490-75933-22	SPMW-11-GW-HS-040315	04/13/2015 13:34	1	041315-08.D	DB-624 0.18(mm)
490-75933-23	SPRW-303A-GW-HS-040315	04/13/2015 14:03	1	041315-09.D	DB-624 0.18(mm)
490-75933-24	SPRW-303A-GW-HS-040315-FD	04/13/2015 14:31	1	041315-10.D	DB-624 0.18(mm)
ZZZZZ		04/13/2015 15:28	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 15:57	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 16:25	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 16:54	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 17:23	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 17:51	10		DB-624 0.18(mm)
ZZZZZ		04/13/2015 18:19	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 18:47	5		DB-624 0.18(mm)
ZZZZZ		04/13/2015 19:16	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 19:44	5		DB-624 0.18(mm)
ZZZZZ		04/13/2015 20:13	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 20:42	5		DB-624 0.18(mm)
490-75933-22 MS	SPMW-11-GW-HS-040315 MS	04/13/2015 21:10	1	041315-24.D	DB-624 0.18(mm)
490-75933-22 MSD	SPMW-11-GW-HS-040315 MSD	04/13/2015 21:39	1	041315-25.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP32 Start Date: 03/13/2015 10:59

Analysis Batch Number: 233414 End Date: 03/13/2015 15:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-233414/1		03/13/2015 10:59	1	031315-01.D	DB-624 0.18(mm)
STD0005 490-233414/2 IC		03/13/2015 11:26	1	031315-02.D	DB-624 0.18(mm)
STD001 490-233414/3 IC		03/13/2015 11:52	1	031315-03.D	DB-624 0.18(mm)
STD002 490-233414/4 IC		03/13/2015 12:19	1	031315-04.D	DB-624 0.18(mm)
STD010 490-233414/5 IC		03/13/2015 12:45	1	031315-05.D	DB-624 0.18(mm)
STD020 490-233414/6 IC		03/13/2015 13:12	1	031315-06.D	DB-624 0.18(mm)
ICIS 490-233414/7		03/13/2015 13:38	1	031315-07.D	DB-624 0.18(mm)
STD100 490-233414/8 IC		03/13/2015 14:05	1	031315-08.D	DB-624 0.18(mm)
STD200 490-233414/9 IC		03/13/2015 14:31	1	031315-09.D	DB-624 0.18(mm)
ICV 490-233414/12		03/13/2015 15:50	1	031315-12.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP32 Start Date: 04/10/2015 23:40

Analysis Batch Number: 240523 End Date: 04/11/2015 11:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-240523/1		04/10/2015 23:40	1	041015-32.D	DB-624 0.18(mm)
CCVIS 490-240523/2		04/11/2015 00:06	1	041015-33.D	DB-624 0.18(mm)
LCS 490-240523/3		04/11/2015 00:32	1	041015-34.D	DB-624 0.18(mm)
MB 490-240523/6		04/11/2015 01:51	1	041015-37.D	DB-624 0.18(mm)
490-75933-9	TB-03-040215	04/11/2015 02:17	1	041015-38.D	DB-624 0.18(mm)
490-75933-11	SPRW-702-GW-040315	04/11/2015 02:44	1	041015-39.D	DB-624 0.18(mm)
ZZZZZ		04/11/2015 03:09	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 03:36	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 04:02	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 04:29	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 04:55	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 05:22	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 05:48	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 06:15	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 06:41	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 07:07	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 07:34	1		DB-624 0.18(mm)
490-75933-1	BRMW-11-GW-HS-040215	04/11/2015 08:00	1	041015-51.D	DB-624 0.18(mm)
490-75933-2	BRMW-11-GW-HS-040215-FD	04/11/2015 08:26	1	041015-52.D	DB-624 0.18(mm)
ZZZZZ		04/11/2015 08:52	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 09:19	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 09:45	1		DB-624 0.18(mm)
490-75933-6	BRMW-04-GW-HS-040215	04/11/2015 10:11	1	041015-56.D	DB-624 0.18(mm)
490-75933-11 MS	SPRW-702-GW-040315 MS	04/11/2015 10:37	1	041015-57.D	DB-624 0.18(mm)
490-75933-11 MSD	SPRW-702-GW-040315 MSD	04/11/2015 11:04	1	041015-58.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP32 Start Date: 04/11/2015 11:30

Analysis Batch Number: 240526 End Date: 04/11/2015 22:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-240526/1		04/11/2015 11:30	1	041015-59.D	DB-624 0.18(mm)
CCVIS 490-240526/2		04/11/2015 11:57	1	041015-60.D	DB-624 0.18(mm)
LCS 490-240526/3		04/11/2015 12:23	1	041015-61.D	DB-624 0.18(mm)
MB 490-240526/6		04/11/2015 13:42	1	041015-64.D	DB-624 0.18(mm)
ZZZZZ		04/11/2015 14:09	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 14:35	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 15:01	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 15:28	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 15:54	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 16:21	1		DB-624 0.18(mm)
490-75933-7	BRMW-04A-GW-HS-040215	04/11/2015 16:47	1	041015-71.D	DB-624 0.18(mm)
490-75933-8	BRMW-01-GW-HS-040215	04/11/2015 17:14	1	041015-72.D	DB-624 0.18(mm)
490-75933-10	SPRW-701-GW-040315	04/11/2015 17:41	1	041015-73.D	DB-624 0.18(mm)
490-75933-12	SPRW-702-GW-040315-FD	04/11/2015 18:07	1	041015-74.D	DB-624 0.18(mm)
490-75933-13	SPRW-302-GW-HS-040315	04/11/2015 18:34	1	041015-75.D	DB-624 0.18(mm)
490-75933-14	SPRW-301-GW-HS-040315	04/11/2015 19:00	1	041015-76.D	DB-624 0.18(mm)
490-75933-15	SPMW-4A-GW-HS-040315	04/11/2015 19:27	1	041015-77.D	DB-624 0.18(mm)
490-75933-16	SPMW-4-GW-HS-040315	04/11/2015 19:53	1	041015-78.D	DB-624 0.18(mm)
490-75933-17	SHMW-10-GW-HS-040315	04/11/2015 20:20	1	041015-79.D	DB-624 0.18(mm)
490-75933-18	SPMW-14A-GW-HS-040315	04/11/2015 20:46	1	041015-80.D	DB-624 0.18(mm)
490-75933-19	SPMW-2-GW-HS-040315	04/11/2015 21:13	1	041015-81.D	DB-624 0.18(mm)
490-75933-20	SDMW-1-GW-HS-040315	04/11/2015 21:39	1	041015-82.D	DB-624 0.18(mm)
490-75933-21	SFMW-6-GW-HS-040315	04/11/2015 22:05	1	041015-83.D	DB-624 0.18(mm)
ZZZZZ		04/11/2015 22:31	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 22:58	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP32 Start Date: 04/14/2015 10:43

Analysis Batch Number: 241067 End Date: 04/14/2015 22:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-241067/1		04/14/2015 10:43	1	041415-01.D	DB-624 0.18(mm)
CCVIS 490-241067/2		04/14/2015 11:16	1	041415-02.D	DB-624 0.18(mm)
LCS 490-241067/3		04/14/2015 11:42	1	041415-03.D	DB-624 0.18(mm)
LCSD 490-241067/4		04/14/2015 12:09	1	041415-04.D	DB-624 0.18(mm)
MB 490-241067/7		04/14/2015 13:28	1	041415-07.D	DB-624 0.18(mm)
490-75933-3	BRMW-10-GW-HS-040215	04/14/2015 13:54	1	041415-08.D	DB-624 0.18(mm)
490-75933-4	BRMW-05-GW-HS-040215	04/14/2015 14:21	1	041415-09.D	DB-624 0.18(mm)
490-75933-5	BRMW-05A-GW-HS-040215	04/14/2015 14:47	1	041415-10.D	DB-624 0.18(mm)
490-75933-10 DL	SPRW-701-GW-040315 DL	04/14/2015 15:14	5	041415-11.D	DB-624 0.18(mm)
490-75933-11 DL	SPRW-702-GW-040315 DL	04/14/2015 15:41	5	041415-12.D	DB-624 0.18(mm)
490-75933-12 DL	SPRW-702-GW-040315-FD DL	04/14/2015 16:07	5	041415-13.D	DB-624 0.18(mm)
490-75933-13 DL	SPRW-302-GW-HS-040315 DL	04/14/2015 16:34	5	041415-14.D	DB-624 0.18(mm)
490-75933-23 DL	SPRW-303A-GW-HS-040315 DL	04/14/2015 17:00	5	041415-15.D	DB-624 0.18(mm)
490-75933-24 DL	SPRW-303A-GW-HS-040315-FD DL	04/14/2015 17:27	5	041415-16.D	DB-624 0.18(mm)
490-75933-2 DL	BRMW-11-GW-HS-040215-FD DL	04/14/2015 17:53	20	041415-17.D	DB-624 0.18(mm)
490-75933-1 DL	BRMW-11-GW-HS-040215 DL	04/14/2015 18:19	20	041415-18.D	DB-624 0.18(mm)
ZZZZZ		04/14/2015 18:45	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 19:11	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 19:37	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 20:04	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 20:30	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 20:57	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 21:23	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 21:50	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 22:16	1		DB-624 0.18(mm)

Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTX-5 ID: 0.32 (mm) GC Column (2): RTX-50 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	TCX2 #	TCX1 #	DCB1 #	DCB2 #
SPRW-701-GW-040315	490-75933-10		70	59	
SPRW-702-GW-040315	490-75933-11		70	52	
SPRW-702-GW-040315 -FD	490-75933-12		65	50	
SPMW-14A-GW-HS-040 315	490-75933-18	80			59
	MB 490-239249/1-A		80		66
	MB 490-239550/1-A	89			69
	LCS 490-239249/2-A		78		64
	LCS 490-239550/2-A	78			66

	QC LIMITS
TCX = Tetrachloro-m-xylene	10-150
DCB = DCB Decachlorobiphenyl (Surr)	10-150

Column to be used to flag recovery values

FORM II 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041415hp37.043dat.d

Lab ID: LCS 490-239249/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	5.00	4.367	87	23-139	
PCB-1260	5.00	3.699	74	36-144	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 041415hp37.009dat.d

Lab ID: LCS 490-239550/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	5.00	4.485	90	23-139	
PCB-1260	5.00	3.858	77	36-144	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: MB 490-239249/1-A

Matrix: Water Date Extracted: 04/06/2015 13:34

Lab File ID:(1) 041415hp37.042dat.d Lab File ID:(2) 041415hp37.042dat.d

Date Analyzed:(1) 04/14/2015 22:39 Date Analyzed:(2) 04/14/2015 22:39

Instrument ID:(1) HP37 Instrument ID:(2) HP37

GC Column:(1) RTX-5 ID: 0.32(mm) GC Column:(2) RTX-50 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 490-239249/2-A	04/14/2015 22:55	04/14/2015 22:55
SPRW-701-GW-040315	490-75933-10	04/15/2015 03:04	04/15/2015 03:04

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: MB 490-239550/1-A

Matrix: Water Date Extracted: 04/07/2015 14:33

Lab File ID:(1) 041415hp37.008dat.d Lab File ID:(2) 041415hp37.008dat.d

Date Analyzed:(1) 04/14/2015 13:49 Date Analyzed:(2) 04/14/2015 13:49

Instrument ID:(1) HP37 Instrument ID:(2) HP37

GC Column:(1) RTX-5 ID: 0.32(mm) GC Column:(2) RTX-50 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 490-239550/2-A	04/14/2015 14:04	04/14/2015 14:04
SPMW-14A-GW-HS-040315	490-75933-18	04/14/2015 15:22	04/14/2015 15:22
SPRW-702-GW-040315	490-75933-11	04/15/2015 05:25	04/15/2015 05:25
SPRW-702-GW-040315-FD	490-75933-12	04/15/2015 05:41	04/15/2015 05:41

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Sample No.: ICRT 490-237912/7 Date Analyzed: 03/31/2015 17:23

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): 033115hp37.007dat.d Heated Purge: (Y/N) N

Calibration ID: 38947

		TCX		DCB			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION SURROGATE		90020	2.06	70732	8.39		
UPPER LIMIT			2.16		8.49		
LOWER LIMIT			1.96		8.29		
LAB SAMPLE ID	CLIENT SAMPLE ID						

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Sample No.: ICRT 490-237912/7 Date Analyzed: 03/31/2015 17:23

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm)

Lab File ID (Standard): 033115hp37.007dat.d Heated Purge: (Y/N) N

Calibration ID: 38948

		TCX		DCB			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION SURROGATE		1369859	2.05	1363195	8.93		
UPPER LIMIT			2.15		9.03		
LOWER LIMIT			1.95		8.83		
LAB SAMPLE ID	CLIENT SAMPLE ID						

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Sample No.: CCVRT 490-241134/2 Date Analyzed: 04/14/2015 12:15

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): 041415hp37.002dat.d Heated Purge: (Y/N) N

Calibration ID: 38947

		TCX		DCB			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
CONTINUING CALIBRATION SURROGATE		147791	2.04	100137	8.36		
UPPER LIMIT		150	2.14	150	8.46		
LOWER LIMIT		10	1.94	10	8.26		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 490-239249/1-A		136060	2.04				
LCS 490-239249/2-A		135240	2.04				
490-75933-10	SPRW-701-GW-040315	120984	2.04	78929	8.36		
490-75933-11	SPRW-702-GW-040315	30563	2.04	18850	8.36		
490-75933-12	SPRW-702-GW-040315-FD	28831	2.04	18499	8.36		

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Sample No.: CCVRT 490-241134/2 Date Analyzed: 04/14/2015 12:15

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm)

Lab File ID (Standard): 041415hp37.002dat.d Heated Purge: (Y/N) N

Calibration ID: 38948

		TCX		DCB			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
CONTINUING CALIBRATION SURROGATE		1487816	2.04	1238931	8.91		
UPPER LIMIT		150	2.14	150	9.01		
LOWER LIMIT		10	1.94	10	8.81		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 490-239550/1-A		1491759	2.04	1116097	8.91		
LCS 490-239550/2-A		1307334	2.04	1068433	8.91		
490-75933-18	SPMW-14A-GW-HS-040315	1352164	2.04	958191	8.91		
MB 490-239249/1-A				1065131	8.91		
LCS 490-239249/2-A				1041880	8.91		

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-701-GW-040315 Lab Sample ID: 490-75933-10

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/15/2015 03:04 Date Analyzed (2): 04/15/2015 03:04

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	3.57	3.54	3.60	5.37	3.04	2.1
		2	3.66	3.63	3.69	4.92		
		3	4.03	3.99	4.05	0.320		
		4	4.05	4.02	4.08	2.49		
		5	4.27	4.24	4.30	2.10		
	2	1	3.79	3.76	3.82	5.62	3.10	
		2	3.93	3.90	3.96	5.53		
		3	4.21	4.18	4.24	0.433		
		4	4.26	4.24	4.30	2.55		
		5	4.54	4.50	4.56	1.38		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-702-GW-040315 Lab Sample ID: 490-75933-11

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/15/2015 05:25 Date Analyzed (2): 04/15/2015 05:25

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	3.57	3.54	3.60	24.5	11.5	19.0
		2	3.66	3.63	3.69	18.2		
		3	4.02	3.99	4.05	2.04		
		4	4.05	4.02	4.08	5.23		
		5	4.27	4.24	4.30	7.51		
	2	1	3.79	3.76	3.82	27.1	13.9	
		2	3.93	3.90	3.96	24.8		
		3	4.21	4.18	4.24	3.22		
		4	4.26	4.24	4.30	7.86		
		5	4.53	4.50	4.56	6.50		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-702-GW-040315-FD Lab Sample ID: 490-75933-12

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/15/2015 05:41 Date Analyzed (2): 04/15/2015 05:41

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	3.57	3.54	3.60	22.9	10.8	20.0
		2	3.66	3.63	3.69	17.5		
		3	4.02	3.99	4.05	2.17		
		4	4.05	4.02	4.08	5.55		
		5	4.28	4.24	4.30	5.98		
	2	1	3.79	3.76	3.82	25.9	13.2	
		2	3.93	3.90	3.96	23.5		
		3	4.21	4.18	4.24	3.07		
		4	4.27	4.24	4.30	7.41		
		5	4.53	4.50	4.56	6.14		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 490-239249/2-A

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/14/2015 22:55 Date Analyzed (2): 04/14/2015 22:55

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.31	2.28	2.34	4.70	4.681	6.9
		2	2.60	2.57	2.63	4.92		
		3	2.77	2.74	2.80	4.21		
		4	2.79	2.76	2.82	4.46		
		5	3.03	3.00	3.06	5.11		
	2	1	2.40	2.37	2.43	4.28	4.367	
		2	2.74	2.71	2.77	3.80		
		3	2.94	2.91	2.97	4.28		
		4	2.97	2.94	3.00	4.49		
		5	3.17	3.14	3.20	4.99		
PCB-1260	1	1	4.95	4.92	4.98	4.57	4.445	18.3
		2	5.29	5.26	5.32	4.86		
		3	5.64	5.61	5.67	4.85		
		4	6.10	6.07	6.13	3.90		
		5	6.50	6.47	6.53	4.04		
	2	1	5.53	5.50	5.56	3.78	3.699	
		2	5.99	5.96	6.02	4.38		
		3	6.50	6.47	6.53	3.37		
		4	6.59	6.56	6.62	3.78		
		5	6.83	6.80	6.86	3.18		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 490-239550/2-A

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/14/2015 14:04 Date Analyzed (2): 04/14/2015 14:04

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.31	2.28	2.34	5.16	5.140	13.6
		2	2.60	2.57	2.63	5.40		
		3	2.77	2.74	2.80	4.51		
		4	2.79	2.76	2.82	4.98		
		5	3.03	3.00	3.06	5.65		
	2	1	2.40	2.37	2.43	4.42	4.485	
		2	2.74	2.71	2.77	3.85		
		3	2.94	2.91	2.97	4.37		
		4	2.97	2.94	3.00	4.64		
		5	3.17	3.14	3.20	5.14		
PCB-1260	1	1	4.95	4.92	4.98	5.04	4.874	23.3
		2	5.29	5.26	5.32	5.35		
		3	5.64	5.61	5.67	5.23		
		4	6.10	6.07	6.13	4.31		
		5	6.50	6.47	6.53	4.43		
	2	1	5.53	5.50	5.56	3.93	3.858	
		2	5.99	5.96	6.02	4.59		
		3	6.50	6.47	6.53	3.52		
		4	6.59	6.56	6.62	3.95		
		5	6.83	6.80	6.86	3.30		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-701-GW-040315 Lab Sample ID: 490-75933-10

Matrix: Water Lab File ID: 041415hp37.059dat.d

Analysis Method: 8082A Date Collected: 04/03/2015 09:50

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1070(mL) Date Analyzed: 04/15/2015 03:04

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.467	U	0.467	0.0598
12672-29-6	PCB-1248	3.04		0.467	0.0645
11097-69-1	PCB-1254	0.467	U	0.467	0.00654

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	59		10-150
877-09-8	Tetrachloro-m-xylene	70		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-702-GW-040315 | Lab Sample ID: 490-75933-11

Matrix: Water | Lab File ID: 041415hp37.068dat.d

Analysis Method: 8082A | Date Collected: 04/03/2015 09:50

Extraction Method: 3510C | Date Extracted: 04/07/2015 14:33

Sample wt/vol: 1045(mL) | Date Analyzed: 04/15/2015 05:25

Con. Extract Vol.: 5(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	2.39	U	2.39	0.306
12672-29-6	PCB-1248	11.5		2.39	0.330
11097-69-1	PCB-1254	2.39	U	2.39	0.0335

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	52		10-150
877-09-8	Tetrachloro-m-xylene	70		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPRW-702-GW-040315-FD Lab Sample ID: 490-75933-12

Matrix: Water Lab File ID: 041415hp37.069dat.d

Analysis Method: 8082A Date Collected: 04/03/2015 10:50

Extraction Method: 3510C Date Extracted: 04/07/2015 14:33

Sample wt/vol: 1065(mL) Date Analyzed: 04/15/2015 05:41

Con. Extract Vol.: 5(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	2.35	U	2.35	0.300
12672-29-6	PCB-1248	10.8		2.35	0.324
11097-69-1	PCB-1254	2.35	U	2.35	0.0329

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	50		10-150
877-09-8	Tetrachloro-m-xylene	65		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPMW-14A-GW-HS-040315 | Lab Sample ID: 490-75933-18

Matrix: Water | Lab File ID: 041415hp37.014dat.d

Analysis Method: 8082A | Date Collected: 04/03/2015 15:40

Extraction Method: 3510C | Date Extracted: 04/07/2015 14:33

Sample wt/vol: 1065(mL) | Date Analyzed: 04/14/2015 15:22

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.469	U	0.469	0.0601
12672-29-6	PCB-1248	0.469	U	0.469	0.0648
11097-69-1	PCB-1254	0.469	U	0.469	0.00657

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: SPMW-14A-GW-HS-040315 Lab Sample ID: 490-75933-18

Matrix: Water Lab File ID: 041415hp37.014dat.d

Analysis Method: 8082A Date Collected: 04/03/2015 15:40

Extraction Method: 3510C Date Extracted: 04/07/2015 14:33

Sample wt/vol: 1065(mL) Date Analyzed: 04/14/2015 15:22

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-50 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	59		10-150
877-09-8	Tetrachloro-m-xylene	80		10-150

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 01:54 Calibration End Date: 03/31/2015 03:27 Calibration ID: 38921

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/25	033015hp37.025dat.d
Level 2	IC 490-237639/26	033015hp37.026dat.d
Level 3	IC 490-237639/27	033015hp37.027dat.d
Level 4	IC 490-237639/28	033015hp37.028dat.d
Level 5	ICIS 490-237639/29	033015hp37.029dat.d
Level 6	IC 490-237639/30	033015hp37.030dat.d
Level 7	IC 490-237639/31	033015hp37.031dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1221 Peak 1	0.0206 0.0154	0.0192 0.0157	0.0175	0.0173	0.0161	Lin2	0.0001	0.0161							0.9980		0.9900
PCB-1221 Peak 2	0.0536 0.0356	0.0492 0.0364	0.0419	0.0388	0.0378	Lin2	0.0005	0.0372							0.9980		0.9900
PCB-1221 Peak 3	0.0086 0.0054	0.0063 0.0057	0.0066	0.0060	0.0057	Lin2	0.0001	0.0057							0.9900		0.9900
PCB-1254 Peak 1	0.0713 0.0519	0.0548 0.0551	0.0580	0.0496	0.0518	Lin2	0.0005	0.0518							0.9930		0.9900
PCB-1254 Peak 2	0.1273 0.0889	0.1013 0.0941	0.0962	0.0870	0.0885	Lin2	0.0010	0.0885							0.9960		0.9900
PCB-1254 Peak 3	0.0991 0.0685	0.0821 0.0721	0.0743	0.0652	0.0678	Lin2	0.0009	0.0678							0.9970		0.9900
PCB-1254 Peak 4	0.0926 0.0638	0.0727 0.0673	0.0698	0.0635	0.0636	Lin2	0.0008	0.0637							0.9960		0.9900
PCB-1254 Peak 5	0.1359 0.0944	0.1059 0.0989	0.1016	0.0919	0.0931	Lin2	0.0011	0.0932							0.9960		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 01:54 Calibration End Date: 03/31/2015 03:27 Calibration ID: 38921

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/25	033015hp37.025dat.d
Level 2	IC 490-237639/26	033015hp37.026dat.d
Level 3	IC 490-237639/27	033015hp37.027dat.d
Level 4	IC 490-237639/28	033015hp37.028dat.d
Level 5	ICIS 490-237639/29	033015hp37.029dat.d
Level 6	IC 490-237639/30	033015hp37.030dat.d
Level 7	IC 490-237639/31	033015hp37.031dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	BNB	Lin2	471 23337	568 37232	2566	6306	11610	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1221 Peak 2	BNB	Lin2	1223 53921	1454 86150	6154	14171	27293	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1221 Peak 3	BNB	Lin2	196 8126	185 13550	967	2201	4118	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 1	BNB	Lin2	1628 78698	1620 130588	8513	18131	37396	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 2	BNB	Lin2	2904 134838	2992 222866	14123	31763	63890	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 3	BNB	Lin2	2261 103901	2425 170829	10914	23824	48980	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 4	BNB	Lin2	2113 96689	2149 159372	10247	23186	45911	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 5	BNB	Lin2	3101 143202	3130 234229	14916	33573	67183	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 01:54 Calibration End Date: 03/31/2015 03:27 Calibration ID: 38922

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/25	033015hp37.025dat.d
Level 2	IC 490-237639/26	033015hp37.026dat.d
Level 3	IC 490-237639/27	033015hp37.027dat.d
Level 4	IC 490-237639/28	033015hp37.028dat.d
Level 5	ICIS 490-237639/29	033015hp37.029dat.d
Level 6	IC 490-237639/30	033015hp37.030dat.d
Level 7	IC 490-237639/31	033015hp37.031dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1221 Peak 1	0.0669 0.0524	0.0617 0.0548	0.0531	0.0521	0.0504	Lin2	0.0005	0.0519							0.9990		0.9900
PCB-1221 Peak 2	0.1610 0.1218	0.1461 0.1265	0.1255	0.1225	0.1164	Lin2	0.0012	0.1205							0.9990		0.9900
PCB-1221 Peak 3	0.0273 0.0188	0.0230 0.0196	0.0190	0.0172	0.0177	Lin2	0.0003	0.0180							0.9970		0.9900
PCB-1254 Peak 1	0.3258 0.2447	0.3090 0.2135	0.2540	0.2426	0.2331	Lin2	0.0031	0.2331							0.9960		0.9900
PCB-1254 Peak 2	0.4603 0.3096	0.4255 +++++	0.3615	0.3512	0.3418	Lin2	0.0041	0.3331							0.9970		0.9900
PCB-1254 Peak 3	0.3445 0.2634	0.3205 0.2256	0.2646	0.2562	0.2469	Lin2	0.0032	0.2466							0.9970		0.9900
PCB-1254 Peak 4	0.1830 0.1525	0.1793 0.1655	0.1459	0.1442	0.1355	Lin2	0.0012	0.1477							0.9930		0.9900
PCB-1254 Peak 5	0.3790 0.3077	0.3579 0.2612	0.3013	0.2966	0.2883	Ave		0.3132				13.1		20.0			0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 01:54 Calibration End Date: 03/31/2015 03:27 Calibration ID: 38922

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/25	033015hp37.025dat.d
Level 2	IC 490-237639/26	033015hp37.026dat.d
Level 3	IC 490-237639/27	033015hp37.027dat.d
Level 4	IC 490-237639/28	033015hp37.028dat.d
Level 5	ICIS 490-237639/29	033015hp37.029dat.d
Level 6	IC 490-237639/30	033015hp37.030dat.d
Level 7	IC 490-237639/31	033015hp37.031dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	BNB	Lin2	5965 295383	8445 461096	30600	75657	145798	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1221 Peak 2	BNB	Lin2	14356 686378	20007 1064944	72339	177808	336626	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1221 Peak 3	BNB	Lin2	2433 105911	3154 164633	10952	25033	51050	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 1	BNB	Lin2	29054 1378800	42313 1797354	146423	352205	673921	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 2	BNB	Lin2	41054 1744634	58271 +++++	208439	509870	988392	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1254 Peak 3	BNB	Lin2	30728 1484298	43896 1899009	152584	371980	713854	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 4	BNB	Lin2	16321 859051	24551 1392911	84129	209357	391938	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 5	BNB	Ave	33802 1733842	49012 2198738	173742	430628	833785	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 03:59 Calibration End Date: 03/31/2015 05:31 Calibration ID: 38927

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/33	033015hp37.033dat.d
Level 2	IC 490-237639/34	033015hp37.034dat.d
Level 3	IC 490-237639/35	033015hp37.035dat.d
Level 4	IC 490-237639/36	033015hp37.036dat.d
Level 5	ICIS 490-237639/37	033015hp37.037dat.d
Level 6	IC 490-237639/38	033015hp37.038dat.d
Level 7	IC 490-237639/39	033015hp37.039dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1232 Peak 1	0.0494 0.0320	0.0440 0.0320	0.0414	0.0355	0.0334	Lin2	0.0005	0.0339							0.9930		0.9900
PCB-1232 Peak 2	0.0381 0.0262	0.0350 0.0260	0.0333	0.0287	0.0268	Lin2	0.0003	0.0275							0.9930		0.9900
PCB-1232 Peak 3	0.0350 0.0229	0.0300 0.0219	0.0275	0.0232	0.0230	Lin2	0.0004	0.0230							0.9960		0.9900
PCB-1232 Peak 4	0.0449 0.0313	0.0436 0.0320	0.0397	0.0342	0.0319	Lin2	0.0004	0.0332							0.9920		0.9900
PCB-1232 Peak 5	0.0340 0.0228	0.0304 0.0223	0.0288	0.0245	0.0232	Lin2	0.0003	0.0237							0.9940		0.9900
PCB-1262 Peak 1	0.1139 0.0870	0.1131 0.0880	0.0996	0.0885	0.0880	Lin2	0.0009	0.0890							0.9970		0.9900
PCB-1262 Peak 2	0.2357 0.1741	0.2223 0.1785	0.2003	0.1780	0.1765	Lin2	0.0019	0.1784							0.9980		0.9900
PCB-1262 Peak 3	0.0970 0.0790	0.1046 0.0836	0.0908	0.0803	0.0835	Lin2	0.0006	0.0831							0.9940		0.9900
PCB-1262 Peak 4	0.0415 0.0298	0.0405 0.0310	0.0351	0.0303	0.0325	Lin2	0.0004	0.0312							0.9960		0.9900
PCB-1262 Peak 5	0.0354 0.0224	0.0358 0.0233	0.0294	0.0251	0.0244	Lin1	0.0006	0.0231							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 03:59 Calibration End Date: 03/31/2015 05:31 Calibration ID: 38927

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/33	033015hp37.033dat.d
Level 2	IC 490-237639/34	033015hp37.034dat.d
Level 3	IC 490-237639/35	033015hp37.035dat.d
Level 4	IC 490-237639/36	033015hp37.036dat.d
Level 5	ICIS 490-237639/37	033015hp37.037dat.d
Level 6	IC 490-237639/38	033015hp37.038dat.d
Level 7	IC 490-237639/39	033015hp37.039dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	BNB	Lin2	1141 53205	1739 71457	6455	13626	26031	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 2	BNB	Lin2	879 43571	1384 58049	5198	11023	20915	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 3	BNB	Lin2	807 38081	1186 48990	4286	8903	17940	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 4	BNB	Lin2	1037 52050	1723 71455	6198	13127	24885	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 5	BNB	Lin2	785 37878	1203 49969	4492	9415	18079	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 1	BNB	Lin2	2628 144468	4471 196677	15544	33950	68633	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 2	BNB	Lin2	5439 289136	8787 399078	31252	68299	137672	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 3	BNB	Lin2	2239 131228	4133 186948	14167	30793	65132	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 4	BNB	Lin2	958 49510	1599 69305	5480	11636	25311	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 5	BNB	Lin1	818 37152	1414 52154	4592	9613	19014	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:

Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 03:59 Calibration End Date: 03/31/2015 05:31 Calibration ID: 38928

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/33	033015hp37.033dat.d
Level 2	IC 490-237639/34	033015hp37.034dat.d
Level 3	IC 490-237639/35	033015hp37.035dat.d
Level 4	IC 490-237639/36	033015hp37.036dat.d
Level 5	ICIS 490-237639/37	033015hp37.037dat.d
Level 6	IC 490-237639/38	033015hp37.038dat.d
Level 7	IC 490-237639/39	033015hp37.039dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1232 Peak 1	0.1329 0.1118	0.1211 0.1036	0.1199	0.1035	0.1041	Ave		0.1139				9.9		20.0			0.9900
PCB-1232 Peak 2	0.1204 0.1035	0.1100 0.0953	0.1095	0.0943	0.0948	Ave		0.1040				9.5		20.0			0.9900
PCB-1232 Peak 3	0.0964 0.0881	0.0916 0.0841	0.0923	0.0792	0.0790	Ave		0.0872				7.7		20.0			0.9900
PCB-1232 Peak 4	0.1280 0.1228	0.1208 0.1108	0.1233	0.1099	0.1112	Ave		0.1181				6.2		20.0			0.9900
PCB-1232 Peak 5	0.0531 0.0504	0.0500 0.0468	0.0514	0.0444	0.0452	Ave		0.0487				6.8		20.0			0.9900
PCB-1262 Peak 1	0.3985 0.3208	0.3618 +++++	0.3751	0.3263	0.3331	Ave		0.3526				8.8		20.0			0.9900
PCB-1262 Peak 2	0.7954 +++++	0.7339 +++++	0.7596	0.6676	0.6329	Ave		0.7179				9.3		20.0			0.9900
PCB-1262 Peak 3	0.5632 0.4629	0.5259 +++++	0.5360	0.4713	0.4793	Ave		0.5064				8.1		20.0			0.9900
PCB-1262 Peak 4	0.1052 0.0969	0.0980 0.0946	0.1036	0.0898	0.0913	Ave		0.0970				6.0		20.0			0.9900
PCB-1262 Peak 5	0.0928 0.0776	0.0828 0.0774	0.0838	0.0741	0.0750	Ave		0.0805				8.1		20.0			0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 03:59 Calibration End Date: 03/31/2015 05:31 Calibration ID: 38928

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/33	033015hp37.033dat.d
Level 2	IC 490-237639/34	033015hp37.034dat.d
Level 3	IC 490-237639/35	033015hp37.035dat.d
Level 4	IC 490-237639/36	033015hp37.036dat.d
Level 5	ICIS 490-237639/37	033015hp37.037dat.d
Level 6	IC 490-237639/38	033015hp37.038dat.d
Level 7	IC 490-237639/39	033015hp37.039dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	BNB	Ave	11454 653586	17831 892935	68958	154741	307692	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 2	BNB	Ave	10373 605040	16200 821332	62936	141013	280233	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 3	BNB	Ave	8306 515065	13488 725102	53062	118394	233509	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 4	BNB	Ave	11033 717728	17789 954786	70871	164262	328765	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 5	BNB	Ave	4575 294475	7358 402899	29549	66432	133623	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 1	BNB	Ave	34346 1875448	53272 +++++	215653	487773	984494	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1262 Peak 2	BNB	Ave	68556 +++++	108061 +++++	436681	997904	1870963	0.0300 +++++	0.0500 +++++	0.200	0.500	1.00
PCB-1262 Peak 3	BNB	Ave	48540 2706143	77434 +++++	308166	704528	1416814	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1262 Peak 4	BNB	Ave	9063 566536	14430 814802	59568	134172	269996	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 5	BNB	Ave	7999 453607	12189 666619	48186	110804	221651	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Ave = Average ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 06:02 Calibration End Date: 03/31/2015 07:35 Calibration ID: 38933

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/41	033015hp37.041dat.d
Level 2	IC 490-237639/42	033015hp37.042dat.d
Level 3	IC 490-237639/43	033015hp37.043dat.d
Level 4	IC 490-237639/44	033015hp37.044dat.d
Level 5	ICIS 490-237639/45	033015hp37.045dat.d
Level 6	IC 490-237639/46	033015hp37.046dat.d
Level 7	IC 490-237639/47	033015hp37.047dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1242 Peak 1	+++++ 0.0301	0.0489 0.0309	0.0402	0.0358	0.0333	Lin2	0.0009	0.0323							0.9940		0.9900
PCB-1242 Peak 2	+++++ 0.0227	0.0354 0.0231	0.0293	0.0276	0.0244	Lin2	0.0006	0.0242							0.9940		0.9900
PCB-1242 Peak 3	+++++ 0.0182	0.0292 0.0182	0.0244	0.0218	0.0197	Lin2	0.0005	0.0194							0.9920		0.9900
PCB-1242 Peak 4	+++++ 0.0191	0.0326 0.0196	0.0260	0.0231	0.0207	Lin2	0.0006	0.0204							0.9930		0.9900
PCB-1242 Peak 5	+++++ 0.0271	0.0453 0.0279	0.0367	0.0326	0.0294	Lin2	0.0009	0.0291							0.9930		0.9900
PCB-1268 Peak 1	0.2670 0.1844	0.2574 0.1888	0.2140	0.2022	0.1994	Lin2	0.0025	0.1943							0.9970		0.9900
PCB-1268 Peak 2	0.2581 0.1815	0.2439 0.1857	0.2027	0.1918	0.1902	Lin2	0.0023	0.1870							0.9990		0.9900
PCB-1268 Peak 3	0.2217 0.1494	0.2040 0.1533	0.1697	0.1625	0.1598	Lin2	0.0021	0.1556							0.9990		0.9900
PCB-1268 Peak 4	0.1089 0.0675	0.0935 0.0685	0.0808	0.0746	0.0737	Lin2	0.0012	0.0708							0.9980		0.9900
PCB-1268 Peak 5	0.6296 0.4710	0.5947 0.4710	0.5073	0.4938	0.4994	Lin2	0.0048	0.4814							0.9990		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 06:02 Calibration End Date: 03/31/2015 07:35 Calibration ID: 38933

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/41	033015hp37.041dat.d
Level 2	IC 490-237639/42	033015hp37.042dat.d
Level 3	IC 490-237639/43	033015hp37.043dat.d
Level 4	IC 490-237639/44	033015hp37.044dat.d
Level 5	ICIS 490-237639/45	033015hp37.045dat.d
Level 6	IC 490-237639/46	033015hp37.046dat.d
Level 7	IC 490-237639/47	033015hp37.047dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	BNB	Lin2	+++++ 44070	1913 67689	6054	13515	24069	+++++ 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 2	BNB	Lin2	+++++ 33187	1385 50566	4408	10423	17627	+++++ 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 3	BNB	Lin2	+++++ 26653	1143 39804	3663	8230	14235	+++++ 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 4	BNB	Lin2	+++++ 27924	1277 42946	3906	8741	14997	+++++ 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 5	BNB	Lin2	+++++ 39740	1772 61208	5522	12308	21265	+++++ 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 1	BNB	Lin2	6079 270147	10078 413676	32190	76354	144158	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 2	BNB	Lin2	5877 265838	9548 406836	30495	72427	137518	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 3	BNB	Lin2	5049 218946	7988 335800	25534	61359	115556	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 4	BNB	Lin2	2479 98851	3662 150172	12149	28183	53275	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 5	BNB	Lin2	14337 690071	23283 1032065	76312	186472	361087	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 06:02 Calibration End Date: 03/31/2015 07:35 Calibration ID: 38934

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/41	033015hp37.041dat.d
Level 2	IC 490-237639/42	033015hp37.042dat.d
Level 3	IC 490-237639/43	033015hp37.043dat.d
Level 4	IC 490-237639/44	033015hp37.044dat.d
Level 5	ICIS 490-237639/45	033015hp37.045dat.d
Level 6	IC 490-237639/46	033015hp37.046dat.d
Level 7	IC 490-237639/47	033015hp37.047dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1242 Peak 1	0.1532 0.1253	0.1517 0.1290	0.1444	0.1429	0.1304	Ave		0.1395				8.1		20.0			0.9900
PCB-1242 Peak 2	0.0931 0.0786	0.0938 0.0814	0.0886	0.0890	0.0815	Ave		0.0866				7.0		20.0			0.9900
PCB-1242 Peak 3	0.0922 0.0724	0.0898 0.0748	0.0856	0.0836	0.0756	Ave		0.0820				9.5		20.0			0.9900
PCB-1242 Peak 4	0.0958 0.0757	0.0929 0.0792	0.0900	0.0878	0.0792	Ave		0.0858				9.1		20.0			0.9900
PCB-1242 Peak 5	0.1324 0.1059	0.1270 0.1087	0.1211	0.1200	0.1103	Ave		0.1179				8.5		20.0			0.9900
PCB-1268 Peak 1	0.2123 0.1668	0.1995 0.1728	0.1922	0.1876	0.1683	Ave		0.1856				9.2		20.0			0.9900
PCB-1268 Peak 2	0.8029 +++++	0.7847 +++++	0.7422	0.7437	0.6805	Ave		0.7508				6.3		20.0			0.9900
PCB-1268 Peak 3	0.6568 +++++	0.6478 +++++	0.5831	0.6188	0.5743	Ave		0.6162				6.0		20.0			0.9900
PCB-1268 Peak 4	0.2998 0.2527	0.3020 +++++	0.2805	0.2762	0.2561	Ave		0.2779				7.5		20.0			0.9900
PCB-1268 Peak 5	0.4363 0.3237	0.4157 +++++	0.3828	0.3715	0.3501	Ave		0.3800				10.9		20.0			0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 06:02 Calibration End Date: 03/31/2015 07:35 Calibration ID: 38934

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/41	033015hp37.041dat.d
Level 2	IC 490-237639/42	033015hp37.042dat.d
Level 3	IC 490-237639/43	033015hp37.043dat.d
Level 4	IC 490-237639/44	033015hp37.044dat.d
Level 5	ICIS 490-237639/45	033015hp37.045dat.d
Level 6	IC 490-237639/46	033015hp37.046dat.d
Level 7	IC 490-237639/47	033015hp37.047dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	BNB	Ave	13631 755257	22321 1144395	86664	211126	387779	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 2	BNB	Ave	8283 474085	13801 721862	53142	131527	242439	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 3	BNB	Ave	8204 436425	13214 663731	51349	123565	224786	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 4	BNB	Ave	8527 456195	13676 703146	53984	129702	235346	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 5	BNB	Ave	11785 638257	18694 964378	72660	177293	327908	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 1	BNB	Ave	18894 1005881	29363 1533541	115310	277225	500421	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 2	BNB	Ave	71458 +++++	115485 +++++	445353	1099034	2023386	0.0300 +++++	0.0500 +++++	0.200	0.500	1.00
PCB-1268 Peak 3	BNB	Ave	58449 +++++	95346 +++++	349919	914490	1707461	0.0300 +++++	0.0500 +++++	0.200	0.500	1.00
PCB-1268 Peak 4	BNB	Ave	26678 1523524	44455 +++++	168292	408206	761506	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1268 Peak 5	BNB	Ave	38824 1951716	61177 +++++	229702	548936	1040897	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00

Curve Type Legend:
Ave = Average ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 08:07 Calibration End Date: 03/31/2015 09:40 Calibration ID: 38939

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/49	033015hp37.049dat.d
Level 2	IC 490-237639/50	033015hp37.050dat.d
Level 3	IC 490-237639/51	033015hp37.051dat.d
Level 4	IC 490-237639/52	033015hp37.052dat.d
Level 5	ICIS 490-237639/53	033015hp37.053dat.d
Level 6	IC 490-237639/54	033015hp37.054dat.d
Level 7	IC 490-237639/55	033015hp37.055dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1248 Peak 1	0.0821 0.0447	0.0695 0.0480	0.0546	0.0512	0.0507	Lin2	0.0010	0.0480							0.9980		0.9900
PCB-1248 Peak 2	0.0540 0.0296	0.0460 0.0319	0.0340	0.0334	0.0330	Lin2	0.0007	0.0312							0.9980		0.9900
PCB-1248 Peak 3	0.0742 0.0525	0.0766 0.0572	0.0616	0.0576	0.0573	Lin2	0.0007	0.0566							0.9940		0.9900
PCB-1248 Peak 4	0.0672 0.0471	0.0691 0.0512	0.0545	0.0534	0.0543	Lin2	0.0006	0.0516							0.9940		0.9900
PCB-1248 Peak 5	0.0557 0.0428	0.0604 0.0465	0.0502	0.0472	0.0481	Lin2	0.0004	0.0467							0.9930		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 08:07 Calibration End Date: 03/31/2015 09:40 Calibration ID: 38939

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/49	033015hp37.049dat.d
Level 2	IC 490-237639/50	033015hp37.050dat.d
Level 3	IC 490-237639/51	033015hp37.051dat.d
Level 4	IC 490-237639/52	033015hp37.052dat.d
Level 5	ICIS 490-237639/53	033015hp37.053dat.d
Level 6	IC 490-237639/54	033015hp37.054dat.d
Level 7	IC 490-237639/55	033015hp37.055dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	BNB	Lin2	1813 67054	2559 116906	8627	19559	40157	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 2	BNB	Lin2	1193 44376	1694 77661	5362	12743	26162	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 3	BNB	Lin2	1639 78830	2821 139388	9734	21983	45365	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 4	BNB	Lin2	1485 70653	2545 124933	8610	20373	43041	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 5	BNB	Lin2	1230 64194	2225 113342	7926	17999	38059	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 08:07 Calibration End Date: 03/31/2015 09:40 Calibration ID: 38940

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/49	033015hp37.049dat.d
Level 2	IC 490-237639/50	033015hp37.050dat.d
Level 3	IC 490-237639/51	033015hp37.051dat.d
Level 4	IC 490-237639/52	033015hp37.052dat.d
Level 5	ICIS 490-237639/53	033015hp37.053dat.d
Level 6	IC 490-237639/54	033015hp37.054dat.d
Level 7	IC 490-237639/55	033015hp37.055dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1248 Peak 1	0.2128 0.1638	0.1960 0.1726	0.2099	0.1770	0.1840	Ave		0.1880				10.0		20.0			0.9900
PCB-1248 Peak 2	0.1875 0.1486	0.1735 0.1715	0.1880	0.1600	0.1669	Ave		0.1709				8.3		20.0			0.9900
PCB-1248 Peak 3	0.2426 0.1932	0.2265 +++++	0.2462	0.2087	0.2161	Ave		0.2222				9.2		20.0			0.9900
PCB-1248 Peak 4	0.2651 0.2128	0.2487 +++++	0.2715	0.2296	0.2384	Ave		0.2444				9.0		20.0			0.9900
PCB-1248 Peak 5	0.2507 0.2050	0.2330 0.2377	0.2576	0.2212	0.2294	Ave		0.2335				7.6		20.0			0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237639

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 08:07 Calibration End Date: 03/31/2015 09:40 Calibration ID: 38940

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237639/49	033015hp37.049dat.d
Level 2	IC 490-237639/50	033015hp37.050dat.d
Level 3	IC 490-237639/51	033015hp37.051dat.d
Level 4	IC 490-237639/52	033015hp37.052dat.d
Level 5	ICIS 490-237639/53	033015hp37.053dat.d
Level 6	IC 490-237639/54	033015hp37.054dat.d
Level 7	IC 490-237639/55	033015hp37.055dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	BNB	Ave	19332 1010990	29907 1547130	123983	269777	548211	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 2	BNB	Ave	17036 917351	26477 1537443	111042	243952	497265	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 3	BNB	Ave	22037 1192256	34556 +++++	145415	318213	643985	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1248 Peak 4	BNB	Ave	24081 1313492	37950 +++++	160353	350040	710512	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1248 Peak 5	BNB	Ave	22775 1264951	35562 2130598	152133	337276	683613	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Ave = Average ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237912

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 16:21 Calibration End Date: 03/31/2015 17:54 Calibration ID: 38947

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237912/3	033115hp37.003dat.d
Level 2	IC 490-237912/4	033115hp37.004dat.d
Level 3	IC 490-237912/5	033115hp37.005dat.d
Level 4	IC 490-237912/6	033115hp37.006dat.d
Level 5	ICRT 490-237912/7	033115hp37.007dat.d
Level 6	IC 490-237912/8	033115hp37.008dat.d
Level 7	IC 490-237912/9	033115hp37.009dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0374 0.0237	0.0333 0.0229	0.0326	0.0280	0.0253	Lin1	0.0006	0.0237							0.9950		0.9900
PCB-1016 Peak 2	0.0810 0.0479	0.0694 0.0469	0.0660	0.0566	0.0517	Lin1	0.0013	0.0481							0.9960		0.9900
PCB-1016 Peak 3	0.0219 0.0132	0.0177 0.0131	0.0192	0.0160	0.0146	Lin1	0.0003	0.0134							0.9930		0.9900
PCB-1016 Peak 4	0.0346 0.0203	0.0284 0.0197	0.0270	0.0240	0.0214	Lin2	0.0004	0.0216							0.9900		0.9900
PCB-1016 Peak 5	0.1016 0.0582	0.0902 0.0599	0.0767	0.0700	0.0632	Lin2	0.0012	0.0634							0.9930		0.9900
PCB-1260 Peak 1	0.0984 0.0620	0.0881 0.0594	0.0800	0.0699	0.0643	Lin2	0.0011	0.0651							0.9920		0.9900
PCB-1260 Peak 2	0.1469 0.0940	0.1256 0.0906	0.1195	0.1054	0.0968	Lin2	0.0015	0.0980							0.9930		0.9900
PCB-1260 Peak 3	0.1262 0.0808	0.1117 0.0812	0.1043	0.0912	0.0848	Lin2	0.0013	0.0859							0.9930		0.9900
PCB-1260 Peak 4	0.0898 0.0613	0.0748 0.0594	0.0780	0.0679	0.0636	Lin2	0.0007	0.0641							0.9910		0.9900
PCB-1260 Peak 5	0.1974 0.1364	0.1767 0.1335	0.1632	0.1461	0.1392	Lin2	0.0018	0.1402							0.9970		0.9900
Tetrachloro-m-xylene	2.0179 1.3554	1.7853 1.3487	1.6826	1.4906	1.4130	Lin2	0.0019	1.4198							0.9950		0.9900
DCB Decachlorobiphenyl (Surr)	1.6262 1.0977	1.5759 1.0536	1.3205	1.1574	1.1102	Lin1	0.0023	1.0731							0.9990		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237912

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 16:21 Calibration End Date: 03/31/2015 17:54 Calibration ID: 38947

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237912/3	033115hp37.003dat.d
Level 2	IC 490-237912/4	033115hp37.004dat.d
Level 3	IC 490-237912/5	033115hp37.005dat.d
Level 4	IC 490-237912/6	033115hp37.006dat.d
Level 5	ICRT 490-237912/7	033115hp37.007dat.d
Level 6	IC 490-237912/8	033115hp37.008dat.d
Level 7	IC 490-237912/9	033115hp37.009dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Lin1	829 31020	1158 44220	4325	9934	16134	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 2	BNB	Lin1	1793 62679	2414 90518	8761	20069	32913	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 3	BNB	Lin1	484 17207	615 25191	2544	5672	9301	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 4	BNB	Lin2	765 26548	988 37942	3584	8491	13603	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 5	BNB	Lin2	2250 76139	3139 115598	10191	24815	40254	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 1	BNB	Lin2	2179 81058	3068 114578	10625	24791	40962	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 2	BNB	Lin2	3251 122904	4373 174824	15869	37376	61699	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 3	BNB	Lin2	2794 105654	3888 156723	13852	32321	54030	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 4	BNB	Lin2	1989 80190	2603 114616	10361	24056	40540	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 5	BNB	Lin2	4369 178332	6152 257555	21671	51780	88668	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
Tetrachloro-m-xylene	BNB	Lin2	4467 177274	6214 260150	22349	52838	90020	0.00300 0.200	0.00500 0.300	0.0200	0.0500	0.100
DCB Decachlorobiphenyl (Surr)	BNB	Lin1	3600 143565	5485 203232	17539	41025	70732	0.00300 0.200	0.00500 0.300	0.0200	0.0500	0.100

Curve Type Legend:

Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237912

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 16:21 Calibration End Date: 03/31/2015 17:54 Calibration ID: 38948

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237912/3	033115hp37.003dat.d
Level 2	IC 490-237912/4	033115hp37.004dat.d
Level 3	IC 490-237912/5	033115hp37.005dat.d
Level 4	IC 490-237912/6	033115hp37.006dat.d
Level 5	ICRT 490-237912/7	033115hp37.007dat.d
Level 6	IC 490-237912/8	033115hp37.008dat.d
Level 7	IC 490-237912/9	033115hp37.009dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.1362 0.0797	0.1066 0.0781	0.1044	0.0991	0.0848	Lin1	0.0020	0.0803							0.9950		0.9900
PCB-1016 Peak 2	0.1873 0.1266	0.1535 0.1207	0.1672	0.1553	0.1332	Lin1	0.0026	0.1261							0.9930		0.9900
PCB-1016 Peak 3	0.0785 0.0533	0.0635 0.0528	0.0678	0.0654	0.0556	Lin1	0.0010	0.0539							0.9960		0.9900
PCB-1016 Peak 4	0.1026 0.0695	0.0845 0.0675	0.0895	0.0851	0.0732	Lin1	0.0013	0.0698							0.9950		0.9900
PCB-1016 Peak 5	0.3136 0.2186	0.2682 +++++	0.2918	0.2708	0.2409	Lin1	0.0035	0.2311							0.9920		0.9900
PCB-1260 Peak 1	0.4465 +++++	0.3855 +++++	0.4042	0.3813	0.3337	Lin2	0.0022	0.3626							0.9920		0.9900
PCB-1260 Peak 2	0.4101 0.2951	0.3553 +++++	0.3749	0.3499	0.3080	Lin2	0.0025	0.3234							0.9910		0.9900
PCB-1260 Peak 3	0.3426 0.2573	0.3043 +++++	0.3176	0.3034	0.2698	Lin2	0.0018	0.2809							0.9930		0.9900
PCB-1260 Peak 4	0.1644 0.1272	0.1494 0.1224	0.1533	0.1470	0.1304	Lin2	0.0009	0.1336							0.9930		0.9900
PCB-1260 Peak 5	0.7705 +++++	0.6876 +++++	0.7197	0.6842	0.5834	Ave		0.6891				9.9		20.0			0.9900
Tetrachloro-m-xylene	6.0985 +++++	5.1828 +++++	5.5112	5.2110	4.3545	Lin1	0.0052	4.6310							0.9900		0.9900
DCB Decachlorobiphenyl (Surr)	5.8304 +++++	5.1338 +++++	4.9319	4.6091	4.3333	Lin2	0.0039	4.4926							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-75933-1 Analy Batch No.: 237912

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 16:21 Calibration End Date: 03/31/2015 17:54 Calibration ID: 38948

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-237912/3	033115hp37.003dat.d
Level 2	IC 490-237912/4	033115hp37.004dat.d
Level 3	IC 490-237912/5	033115hp37.005dat.d
Level 4	IC 490-237912/6	033115hp37.006dat.d
Level 5	ICRT 490-237912/7	033115hp37.007dat.d
Level 6	IC 490-237912/8	033115hp37.008dat.d
Level 7	IC 490-237912/9	033115hp37.009dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Lin1	12372 500749	16627 741152	64072	152049	266884	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 2	BNB	Lin1	17022 795243	23945 1145890	102562	238210	419115	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 3	BNB	Lin1	7129 334686	9912 501142	41572	100346	174961	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 4	BNB	Lin1	9322 436396	13187 641069	54895	130571	230306	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 5	BNB	Lin1	28495 1373232	41841 +++++	179020	415336	757745	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1260 Peak 1	BNB	Lin2	40566 +++++	60137 +++++	247976	584893	1049801	0.0300 +++++	0.0500 +++++	0.200	0.500	1.00
PCB-1260 Peak 2	BNB	Lin2	37262 1853454	55420 +++++	230003	536615	968793	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1260 Peak 3	BNB	Lin2	31125 1616062	47460 +++++	194866	465267	848673	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1260 Peak 4	BNB	Lin2	14934 798722	23298 1162112	94056	225387	410140	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 5	BNB	Ave	70012 +++++	107257 +++++	441558	1049475	1835302	0.0300 +++++	0.0500 +++++	0.200	0.500	1.00
Tetrachloro-m-xylene	BNB	Lin1	55412 +++++	80843 +++++	338106	799243	1369859	0.00300 +++++	0.00500 +++++	0.0200	0.0500	0.100
DCB Decachlorobiphenyl (Surr)	BNB	Lin2	52976 +++++	80078 +++++	302568	706923	1363195	0.00300 +++++	0.00500 +++++	0.0200	0.0500	0.100

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID (1): ICV 490-237912/10 Instrument ID (1): HP37

GC Column (1): RTX-5 ID: 0.32(mm) Date Analyzed (1): 03/31/2015 18:10

ANALYTE	RT	RESOLUTION (%)
PCB-1016		100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID (2): ICV 490-237912/10 Instrument ID (2): HP37

GC Column (2): RTX-50 ID: 0.32(mm) Date Analyzed (2): 03/31/2015 18:10

ANALYTE	RT	RESOLUTION (%)
PCB-1016		100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID (1): CCVRT 490-241134/2 Instrument ID (1): HP37

GC Column (1): RTX-5 ID: 0.32(mm) Date Analyzed (1): 04/14/2015 12:15

ANALYTE	RT	RESOLUTION (%)
PCB-1016		100.0
PCB-1260		100.0
Tetrachloro-m-xylene	2.04	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID (2): CCVRT 490-241134/2 Instrument ID (2): HP37

GC Column (2): RTX-50 ID: 0.32(mm) Date Analyzed (2): 04/14/2015 12:15

ANALYTE	RT	RESOLUTION (%)
PCB-1016		100.0
PCB-1260		100.0
Tetrachloro-m-xylene	2.04	100.0

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: ICV 490-237912/10 Calibration Date: 03/31/2015 18:10

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 033115hp37.010dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0256		1.05	1.00	5.3	20.0
PCB-1016 Peak 2	Lin1		0.0530		1.07	1.00	7.3	20.0
PCB-1016 Peak 3	Lin1		0.0155		1.13	1.00	13.0	20.0
PCB-1016 Peak 4	Lin2		0.0216		0.982	1.00	-1.9	20.0
PCB-1016 Peak 5	Lin2		0.0638		0.987	1.00	-1.3	20.0
PCB-1260 Peak 1	Lin2		0.0668		1.01	1.00	1.0	20.0
PCB-1260 Peak 2	Lin2		0.1010		1.02	1.00	1.5	20.0
PCB-1260 Peak 3	Lin2		0.0926		1.06	1.00	6.3	20.0
PCB-1260 Peak 4	Lin2		0.0578		0.889	1.00	-11.1	20.0
PCB-1260 Peak 5	Lin2		0.1255		0.882	1.00	-11.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: ICV 490-237912/10 Calibration Date: 03/31/2015 18:10

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 033115hp37.010dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.32	2.29	2.35
PCB-1016 Peak 2	2.62	2.59	2.65
PCB-1016 Peak 3	2.78	2.75	2.81
PCB-1016 Peak 4	2.81	2.78	2.84
PCB-1016 Peak 5	3.05	3.02	3.08
PCB-1260 Peak 1	4.97	4.94	5.00
PCB-1260 Peak 2	5.31	5.28	5.34
PCB-1260 Peak 3	5.66	5.63	5.69
PCB-1260 Peak 4	6.13	6.10	6.16
PCB-1260 Peak 5	6.53	6.50	6.56

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: ICV 490-237912/10 Calibration Date: 03/31/2015 18:10

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 033115hp37.010dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0804		0.976	1.00	-2.4	20.0
PCB-1016 Peak 2	Lin1		0.1287		1.00	1.00	0.0	20.0
PCB-1016 Peak 3	Lin1		0.0554		1.01	1.00	0.9	20.0
PCB-1016 Peak 4	Lin1		0.0722		1.02	1.00	1.5	20.0
PCB-1016 Peak 5	Lin1		0.2331		0.993	1.00	-0.7	20.0
PCB-1260 Peak 1	Lin2		0.3242		0.888	1.00	-11.2	20.0
PCB-1260 Peak 2	Lin2		0.3310		1.02	1.00	1.6	20.0
PCB-1260 Peak 3	Lin2		0.2330		0.823	1.00	-17.7	20.0
PCB-1260 Peak 4	Lin2		0.1173		0.871	1.00	-12.9	20.0
PCB-1260 Peak 5	Ave	0.6891	0.5326		0.773	1.00	-22.7*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: ICV 490-237912/10 Calibration Date: 03/31/2015 18:10

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 033115hp37.010dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.41	2.38	2.44
PCB-1016 Peak 2	2.75	2.72	2.78
PCB-1016 Peak 3	2.95	2.92	2.98
PCB-1016 Peak 4	2.98	2.95	3.01
PCB-1016 Peak 5	3.18	3.15	3.21
PCB-1260 Peak 1	5.55	5.52	5.58
PCB-1260 Peak 2	6.01	5.98	6.04
PCB-1260 Peak 3	6.51	6.48	6.54
PCB-1260 Peak 4	6.60	6.58	6.64
PCB-1260 Peak 5	6.84	6.82	6.88

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCVRT 490-241134/2 Calibration Date: 04/14/2015 12:15

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 041415hp37.002dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0258		1.06	1.00	6.4	20.0
PCB-1016 Peak 2	Lin1		0.0525		1.06	1.00	6.2	20.0
PCB-1016 Peak 3	Lin1		0.0123		0.892	1.00	-10.8	20.0
PCB-1016 Peak 4	Lin2		0.0214		0.975	1.00	-2.5	20.0
PCB-1016 Peak 5	Lin2		0.0708		1.10	1.00	9.8	20.0
PCB-1260 Peak 1	Lin2		0.0664		1.00	1.00	0.3	20.0
PCB-1260 Peak 2	Lin2		0.1009		1.01	1.00	1.4	20.0
PCB-1260 Peak 3	Lin2		0.0813		0.932	1.00	-6.8	20.0
PCB-1260 Peak 4	Lin2		0.0643		0.992	1.00	-0.8	20.0
PCB-1260 Peak 5	Lin2		0.1452		1.02	1.00	2.3	20.0
Tetrachloro-m-xylene	Lin2		1.345		0.0934	0.100	-6.6	20.0
DCB Decachlorobiphenyl (Surr)	Lin1		0.9113		0.0828	0.100	-17.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCVRT 490-241134/2 Calibration Date: 04/14/2015 12:15

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 041415hp37.002dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.31	2.28	2.34
PCB-1016 Peak 2	2.60	2.57	2.63
PCB-1016 Peak 3	2.77	2.74	2.80
PCB-1016 Peak 4	2.79	2.76	2.82
PCB-1016 Peak 5	3.03	3.00	3.06
PCB-1260 Peak 1	4.95	4.92	4.98
PCB-1260 Peak 2	5.29	5.26	5.32
PCB-1260 Peak 3	5.64	5.61	5.67
PCB-1260 Peak 4	6.10	6.07	6.13
PCB-1260 Peak 5	6.50	6.47	6.53
Tetrachloro-m-xylene	2.04	2.01	2.07
DCB Decachlorobiphenyl (Surr)	8.36	8.33	8.39

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCVRT 490-241134/2 Calibration Date: 04/14/2015 12:15

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 041415hp37.002dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0753		0.913	1.00	-8.7	20.0
PCB-1016 Peak 2	Lin1		0.1081		0.837	1.00	-16.3	20.0
PCB-1016 Peak 3	Lin1		0.0461		0.837	1.00	-16.3	20.0
PCB-1016 Peak 4	Lin1		0.0643		0.903	1.00	-9.7	20.0
PCB-1016 Peak 5	Lin1		0.2217		0.944	1.00	-5.6	20.0
PCB-1260 Peak 1	Lin2		0.2892		0.791	1.00	-20.9*	20.0
PCB-1260 Peak 2	Lin2		0.2735		0.838	1.00	-16.2	20.0
PCB-1260 Peak 3	Lin2		0.2311		0.817	1.00	-18.4	20.0
PCB-1260 Peak 4	Lin2		0.1112		0.825	1.00	-17.5	20.0
PCB-1260 Peak 5	Ave	0.6891	0.5106		0.741	1.00	-25.9*	20.0
Tetrachloro-m-xylene	Lin1		4.069		0.0867	0.100	-13.3	20.0
DCB Decachlorobiphenyl (Surr)	Lin2		3.388		0.0746	0.100	-25.4*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCVRT 490-241134/2 Calibration Date: 04/14/2015 12:15

Instrument ID: HP37 Calib Start Date: 03/31/2015 16:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 17:54

Lab File ID: 041415hp37.002dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.40	2.37	2.43
PCB-1016 Peak 2	2.74	2.71	2.77
PCB-1016 Peak 3	2.94	2.91	2.97
PCB-1016 Peak 4	2.97	2.94	3.00
PCB-1016 Peak 5	3.17	3.14	3.20
PCB-1260 Peak 1	5.53	5.50	5.56
PCB-1260 Peak 2	5.99	5.96	6.02
PCB-1260 Peak 3	6.50	6.47	6.53
PCB-1260 Peak 4	6.59	6.56	6.62
PCB-1260 Peak 5	6.83	6.80	6.86
Tetrachloro-m-xylene	2.04	2.01	2.07
DCB Decachlorobiphenyl (Surr)	8.91	8.88	8.94

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 4	Ave	0.4816	0.0000			1.00	-100.0*	20.0
PCB-1221 Peak 5	Ave	0.0089	0.0000			1.00	-100.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 4	0.00	0.00	0.03
PCB-1221 Peak 5	0.00	0.00	0.03

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin2		0.0132		0.808	1.00	-19.2	20.0
PCB-1221 Peak 2	Lin2		0.0322		0.850	1.00	-15.0	20.0
PCB-1221 Peak 3	Lin2		0.0053		0.922	1.00	-7.8	20.0
PCB-1254 Peak 1	Lin2		0.0490		0.935	1.00	-6.5	20.0
PCB-1254 Peak 2	Lin2		0.0842		0.940	1.00	-6.0	20.0
PCB-1254 Peak 3	Lin2		0.0662		0.964	1.00	-3.6	20.0
PCB-1254 Peak 4	Lin2		0.0607		0.942	1.00	-5.8	20.0
PCB-1254 Peak 5	Lin2		0.0864		0.915	1.00	-8.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	2.16	2.13	2.19
PCB-1221 Peak 2	2.31	2.28	2.34
PCB-1221 Peak 3	3.03	3.00	3.06
PCB-1254 Peak 1	4.59	4.56	4.62
PCB-1254 Peak 2	4.73	4.70	4.76
PCB-1254 Peak 3	5.06	5.03	5.09
PCB-1254 Peak 4	5.29	5.26	5.32
PCB-1254 Peak 5	5.64	5.61	5.67

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 4	Ave	0.0355	0.0000			1.00	-100.0*	20.0
PCB-1221 Peak 5	Ave	0.0372	0.0000			1.00	-100.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 4	0.00	0.00	0.03
PCB-1221 Peak 5	0.00	0.00	0.03

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin2		0.0437		0.835	1.00	-16.5	20.0
PCB-1221 Peak 2	Lin2		0.1021		0.837	1.00	-16.3	20.0
PCB-1221 Peak 3	Lin2		0.0171		0.937	1.00	-6.3	20.0
PCB-1254 Peak 1	Lin2		0.2135		0.903	1.00	-9.7	20.0
PCB-1254 Peak 2	Lin2	0.3750	0.3122		0.925	1.00	-7.5	20.0
PCB-1254 Peak 3	Lin2		0.2298		0.919	1.00	-8.1	20.0
PCB-1254 Peak 4	Lin2		0.1347		0.904	1.00	-9.6	20.0
PCB-1254 Peak 5	Ave	0.3132	0.2595		0.895	1.00	-17.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/3 Calibration Date: 04/14/2015 12:31

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	2.24	2.21	2.27
PCB-1221 Peak 2	2.40	2.37	2.43
PCB-1221 Peak 3	3.17	3.14	3.20
PCB-1254 Peak 1	4.48	4.45	4.51
PCB-1254 Peak 2	5.03	5.00	5.06
PCB-1254 Peak 3	5.31	5.28	5.34
PCB-1254 Peak 4	5.53	5.50	5.56
PCB-1254 Peak 5	6.00	5.97	6.03

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/4 Calibration Date: 04/14/2015 12:46

Instrument ID: HP37 Calib Start Date: 03/31/2015 03:59

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 05:31

Lab File ID: 041415hp37.004dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin2		0.0280		0.813	1.00	-18.7	20.0
PCB-1232 Peak 2	Lin2		0.0216		0.772	1.00	-22.8*	20.0
PCB-1232 Peak 3	Lin2		0.0172		0.734	1.00	-26.6*	20.0
PCB-1232 Peak 4	Lin2		0.0305		0.906	1.00	-9.4	20.0
PCB-1232 Peak 5	Lin2		0.0189		0.783	1.00	-21.7*	20.0
PCB-1262 Peak 1	Lin2		0.0760		0.844	1.00	-15.6	20.0
PCB-1262 Peak 2	Lin2		0.1563		0.866	1.00	-13.4	20.0
PCB-1262 Peak 3	Lin2		0.0692		0.826	1.00	-17.4	20.0
PCB-1262 Peak 4	Lin2		0.0237		0.748	1.00	-25.2*	20.0
PCB-1262 Peak 5	Lin1		0.0166		0.695	1.00	-30.5*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/4 Calibration Date: 04/14/2015 12:46

Instrument ID: HP37 Calib Start Date: 03/31/2015 03:59

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 05:31

Lab File ID: 041415hp37.004dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.31	2.28	2.34
PCB-1232 Peak 2	2.60	2.57	2.63
PCB-1232 Peak 3	3.01	2.98	3.04
PCB-1232 Peak 4	3.03	3.00	3.06
PCB-1232 Peak 5	3.16	3.13	3.19
PCB-1262 Peak 1	6.10	6.07	6.13
PCB-1262 Peak 2	6.50	6.47	6.53
PCB-1262 Peak 3	6.98	6.95	7.01
PCB-1262 Peak 4	7.36	7.33	7.39
PCB-1262 Peak 5	8.10	8.07	8.13

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/4 Calibration Date: 04/14/2015 12:46

Instrument ID: HP37 Calib Start Date: 03/31/2015 03:59

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 05:31

Lab File ID: 041415hp37.004dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	0.1139	0.0885		0.778	1.00	-22.2*	20.0
PCB-1232 Peak 2	Ave	0.1040	0.0803		0.772	1.00	-22.8*	20.0
PCB-1232 Peak 3	Ave	0.0872	0.0595		0.682	1.00	-31.8*	20.0
PCB-1232 Peak 4	Ave	0.1181	0.1033		0.875	1.00	-12.5	20.0
PCB-1232 Peak 5	Ave	0.0487	0.0392		0.804	1.00	-19.6	20.0
PCB-1262 Peak 1	Ave	0.3526	0.2828		0.802	1.00	-19.8	20.0
PCB-1262 Peak 2	Ave	0.7179	0.5379		0.749	1.00	-25.1*	20.0
PCB-1262 Peak 3	Ave	0.5064	0.4039		0.798	1.00	-20.2*	20.0
PCB-1262 Peak 4	Ave	0.0970	0.0770		0.794	1.00	-20.6*	20.0
PCB-1262 Peak 5	Ave	0.0805	0.0612		0.761	1.00	-23.9*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/4 Calibration Date: 04/14/2015 12:46

Instrument ID: HP37 Calib Start Date: 03/31/2015 03:59

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 05:31

Lab File ID: 041415hp37.004dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.40	2.37	2.43
PCB-1232 Peak 2	2.74	2.71	2.77
PCB-1232 Peak 3	3.15	3.12	3.18
PCB-1232 Peak 4	3.17	3.14	3.20
PCB-1232 Peak 5	3.41	3.38	3.44
PCB-1262 Peak 1	6.50	6.47	6.53
PCB-1262 Peak 2	6.83	6.80	6.86
PCB-1262 Peak 3	7.32	7.29	7.35
PCB-1262 Peak 4	7.88	7.85	7.91
PCB-1262 Peak 5	8.56	8.53	8.59

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/5 Calibration Date: 04/14/2015 13:02

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.005dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin2		0.0289		0.868	1.00	-13.2	20.0
PCB-1242 Peak 2	Lin2		0.0227		0.912	1.00	-8.8	20.0
PCB-1242 Peak 3	Lin2		0.0163		0.813	1.00	-18.7	20.0
PCB-1242 Peak 4	Lin2		0.0204		0.965	1.00	-3.5	20.0
PCB-1242 Peak 5	Lin2		0.0272		0.905	1.00	-9.5	20.0
PCB-1268 Peak 1	Lin2		0.1736		0.881	1.00	-11.9	20.0
PCB-1268 Peak 2	Lin2		0.1697		0.895	1.00	-10.5	20.0
PCB-1268 Peak 3	Lin2		0.1348		0.853	1.00	-14.8	20.0
PCB-1268 Peak 4	Lin2		0.0584		0.808	1.00	-19.2	20.0
PCB-1268 Peak 5	Lin2		0.3676		0.754	1.00	-24.6*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/5 Calibration Date: 04/14/2015 13:02

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.005dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.16	3.13	3.19
PCB-1242 Peak 2	3.22	3.19	3.25
PCB-1242 Peak 3	3.34	3.31	3.37
PCB-1242 Peak 4	3.36	3.33	3.39
PCB-1242 Peak 5	3.57	3.54	3.60
PCB-1268 Peak 1	6.92	6.89	6.95
PCB-1268 Peak 2	6.98	6.95	7.01
PCB-1268 Peak 3	7.24	7.21	7.27
PCB-1268 Peak 4	7.71	7.68	7.74
PCB-1268 Peak 5	8.10	8.07	8.13

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/5 Calibration Date: 04/14/2015 13:02

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.005dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.1395	0.1139		0.816	1.00	-18.4	20.0
PCB-1242 Peak 2	Ave	0.0866	0.0711		0.822	1.00	-17.8	20.0
PCB-1242 Peak 3	Ave	0.0820	0.0661		0.807	1.00	-19.3	20.0
PCB-1242 Peak 4	Ave	0.0858	0.0697		0.812	1.00	-18.8	20.0
PCB-1242 Peak 5	Ave	0.1179	0.0959		0.813	1.00	-18.7	20.0
PCB-1268 Peak 1	Ave	0.1856	0.1465		0.789	1.00	-21.1*	20.0
PCB-1268 Peak 2	Ave	0.7508	0.5732		0.764	1.00	-23.7*	20.0
PCB-1268 Peak 3	Ave	0.6162	0.4490		0.729	1.00	-27.1*	20.0
PCB-1268 Peak 4	Ave	0.2779	0.2061		0.742	1.00	-25.8*	20.0
PCB-1268 Peak 5	Ave	0.3800	0.2663		0.701	1.00	-29.9*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/5 Calibration Date: 04/14/2015 13:02

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.005dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.31	3.28	3.34
PCB-1242 Peak 2	3.41	3.38	3.44
PCB-1242 Peak 3	3.51	3.48	3.54
PCB-1242 Peak 4	3.55	3.52	3.58
PCB-1242 Peak 5	3.79	3.76	3.82
PCB-1268 Peak 1	6.50	6.47	6.53
PCB-1268 Peak 2	7.38	7.35	7.41
PCB-1268 Peak 3	7.72	7.69	7.75
PCB-1268 Peak 4	8.11	8.08	8.14
PCB-1268 Peak 5	8.91	8.88	8.94

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/6 Calibration Date: 04/14/2015 13:18

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.006dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin2		0.0448		0.912	1.00	-8.8	20.0
PCB-1248 Peak 2	Lin2		0.0287		0.897	1.00	-10.3	20.0
PCB-1248 Peak 3	Lin2		0.0523		0.913	1.00	-8.7	20.0
PCB-1248 Peak 4	Lin2		0.0505		0.969	1.00	-3.1	20.0
PCB-1248 Peak 5	Lin2		0.0450		0.956	1.00	-4.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/6 Calibration Date: 04/14/2015 13:18

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.006dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.57	3.54	3.60
PCB-1248 Peak 2	3.66	3.63	3.69
PCB-1248 Peak 3	4.02	3.99	4.05
PCB-1248 Peak 4	4.05	4.02	4.08
PCB-1248 Peak 5	4.27	4.24	4.30

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/6 Calibration Date: 04/14/2015 13:18

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.006dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.1880	0.1581		0.841	1.00	-15.9	20.0
PCB-1248 Peak 2	Ave	0.1709	0.1629		0.953	1.00	-4.7	20.0
PCB-1248 Peak 3	Ave	0.2222	0.1888		0.850	1.00	-15.0	20.0
PCB-1248 Peak 4	Ave	0.2444	0.2109		0.863	1.00	-13.7	20.0
PCB-1248 Peak 5	Ave	0.2335	0.1973		0.845	1.00	-15.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/6 Calibration Date: 04/14/2015 13:18

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.006dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.79	3.76	3.82
PCB-1248 Peak 2	3.93	3.90	3.96
PCB-1248 Peak 3	4.21	4.18	4.24
PCB-1248 Peak 4	4.27	4.24	4.30
PCB-1248 Peak 5	4.53	4.50	4.56

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/78 Calibration Date: 04/15/2015 11:51

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.078dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin2		0.0296		0.890	1.00	-11.0	20.0
PCB-1242 Peak 2	Lin2		0.0240		0.967	1.00	-3.4	20.0
PCB-1242 Peak 3	Lin2		0.0174		0.869	1.00	-13.1	20.0
PCB-1242 Peak 4	Lin2		0.0207		0.980	1.00	-2.0	20.0
PCB-1242 Peak 5	Lin2		0.0274		0.913	1.00	-8.7	20.0
PCB-1268 Peak 1	Lin2		0.1824		0.926	1.00	-7.4	20.0
PCB-1268 Peak 2	Lin2		0.1820		0.961	1.00	-3.9	20.0
PCB-1268 Peak 3	Lin2		0.1418		0.898	1.00	-10.2	20.0
PCB-1268 Peak 4	Lin2		0.0613		0.849	1.00	-15.1	20.0
PCB-1268 Peak 5	Lin2		0.3822		0.784	1.00	-21.6*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/78 Calibration Date: 04/15/2015 11:51

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.078dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.16	3.13	3.19
PCB-1242 Peak 2	3.22	3.19	3.25
PCB-1242 Peak 3	3.34	3.31	3.37
PCB-1242 Peak 4	3.37	3.34	3.40
PCB-1242 Peak 5	3.58	3.55	3.61
PCB-1268 Peak 1	6.93	6.90	6.96
PCB-1268 Peak 2	6.98	6.95	7.01
PCB-1268 Peak 3	7.24	7.21	7.27
PCB-1268 Peak 4	7.72	7.69	7.75
PCB-1268 Peak 5	8.11	8.08	8.14

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/78 Calibration Date: 04/15/2015 11:51

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.078dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.1395	0.1103		0.791	1.00	-21.0*	20.0
PCB-1242 Peak 2	Ave	0.0866	0.0679		0.785	1.00	-21.5*	20.0
PCB-1242 Peak 3	Ave	0.0820	0.0623		0.759	1.00	-24.1*	20.0
PCB-1242 Peak 4	Ave	0.0858	0.0666		0.776	1.00	-22.4*	20.0
PCB-1242 Peak 5	Ave	0.1179	0.0919		0.779	1.00	-22.1*	20.0
PCB-1268 Peak 1	Ave	0.1856	0.1458		0.785	1.00	-21.5*	20.0
PCB-1268 Peak 2	Ave	0.7508	0.5895		0.785	1.00	-21.5*	20.0
PCB-1268 Peak 3	Ave	0.6162	0.4145		0.673	1.00	-32.7*	20.0
PCB-1268 Peak 4	Ave	0.2779	0.1999		0.720	1.00	-28.1*	20.0
PCB-1268 Peak 5	Ave	0.3800	0.2522		0.664	1.00	-33.6*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/78 Calibration Date: 04/15/2015 11:51

Instrument ID: HP37 Calib Start Date: 03/31/2015 06:02

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 07:35

Lab File ID: 041415hp37.078dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.31	3.28	3.34
PCB-1242 Peak 2	3.41	3.38	3.44
PCB-1242 Peak 3	3.50	3.47	3.53
PCB-1242 Peak 4	3.55	3.52	3.58
PCB-1242 Peak 5	3.79	3.76	3.82
PCB-1268 Peak 1	6.50	6.47	6.53
PCB-1268 Peak 2	7.37	7.34	7.40
PCB-1268 Peak 3	7.72	7.69	7.75
PCB-1268 Peak 4	8.11	8.08	8.14
PCB-1268 Peak 5	8.91	8.88	8.94

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/79 Calibration Date: 04/15/2015 12:07

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.079dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin2		0.0459		0.934	1.00	-6.6	20.0
PCB-1248 Peak 2	Lin2		0.0302		0.945	1.00	-5.5	20.0
PCB-1248 Peak 3	Lin2		0.0539		0.940	1.00	-6.0	20.0
PCB-1248 Peak 4	Lin2		0.0538		1.03	1.00	3.3	20.0
PCB-1248 Peak 5	Lin2		0.0466		0.990	1.00	-1.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/79 Calibration Date: 04/15/2015 12:07

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.079dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.57	3.54	3.60
PCB-1248 Peak 2	3.66	3.63	3.69
PCB-1248 Peak 3	4.02	3.99	4.05
PCB-1248 Peak 4	4.05	4.02	4.08
PCB-1248 Peak 5	4.27	4.24	4.30

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/79 Calibration Date: 04/15/2015 12:07

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.079dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.1880	0.1600		0.851	1.00	-14.9	20.0
PCB-1248 Peak 2	Ave	0.1709	0.1652		0.967	1.00	-3.3	20.0
PCB-1248 Peak 3	Ave	0.2222	0.1891		0.851	1.00	-14.9	20.0
PCB-1248 Peak 4	Ave	0.2444	0.2126		0.870	1.00	-13.0	20.0
PCB-1248 Peak 5	Ave	0.2335	0.1985		0.850	1.00	-15.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/79 Calibration Date: 04/15/2015 12:07

Instrument ID: HP37 Calib Start Date: 03/31/2015 08:07

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 09:40

Lab File ID: 041415hp37.079dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.79	3.76	3.82
PCB-1248 Peak 2	3.93	3.90	3.96
PCB-1248 Peak 3	4.21	4.18	4.24
PCB-1248 Peak 4	4.27	4.24	4.30
PCB-1248 Peak 5	4.53	4.50	4.56

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.080dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 4	Ave	0.4816	0.0000			1.00	-100.0*	20.0
PCB-1221 Peak 5	Ave	0.0089	0.0000			1.00	-100.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.080dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 4	0.00	0.00	0.03
PCB-1221 Peak 5	0.00	0.00	0.03

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.080dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin2		0.0147		0.902	1.00	-9.8	20.0
PCB-1221 Peak 2	Lin2		0.0361		0.956	1.00	-4.5	20.0
PCB-1221 Peak 3	Lin2		0.0059		1.02	1.00	2.2	20.0
PCB-1254 Peak 1	Lin2		0.0552		1.06	1.00	5.6	20.0
PCB-1254 Peak 2	Lin2		0.0943		1.05	1.00	5.4	20.0
PCB-1254 Peak 3	Lin2		0.0743		1.08	1.00	8.3	20.0
PCB-1254 Peak 4	Lin2		0.0677		1.05	1.00	5.1	20.0
PCB-1254 Peak 5	Lin2		0.0960		1.02	1.00	1.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.080dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	2.16	2.13	2.19
PCB-1221 Peak 2	2.31	2.28	2.34
PCB-1221 Peak 3	3.03	3.00	3.06
PCB-1254 Peak 1	4.59	4.56	4.62
PCB-1254 Peak 2	4.73	4.70	4.76
PCB-1254 Peak 3	5.06	5.03	5.09
PCB-1254 Peak 4	5.29	5.26	5.32
PCB-1254 Peak 5	5.64	5.61	5.67

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.080dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 4	Ave	0.0355	0.0000			1.00	-100.0*	20.0
PCB-1221 Peak 5	Ave	0.0372	0.0000			1.00	-100.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 041415hp37.080dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 4	0.00	0.00	0.03
PCB-1221 Peak 5	0.00	0.00	0.03

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.080dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin2		0.0460		0.878	1.00	-12.2	20.0
PCB-1221 Peak 2	Lin2		0.1088		0.893	1.00	-10.7	20.0
PCB-1221 Peak 3	Lin2		0.0182		0.995	1.00	-0.5	20.0
PCB-1254 Peak 1	Lin2		0.2279		0.964	1.00	-3.6	20.0
PCB-1254 Peak 2	Lin2	0.3750	0.3320		0.984	1.00	-1.6	20.0
PCB-1254 Peak 3	Lin2		0.2439		0.976	1.00	-2.4	20.0
PCB-1254 Peak 4	Lin2		0.1443		0.970	1.00	-3.1	20.0
PCB-1254 Peak 5	Ave	0.3132	0.2809		0.970	1.00	-10.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Lab Sample ID: CCV 490-241134/80 Calibration Date: 04/15/2015 12:22

Instrument ID: HP37 Calib Start Date: 03/31/2015 01:54

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 03/31/2015 03:27

Lab File ID: 041415hp37.080dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	2.24	2.21	2.27
PCB-1221 Peak 2	2.40	2.37	2.43
PCB-1221 Peak 3	3.17	3.14	3.20
PCB-1254 Peak 1	4.48	4.45	4.51
PCB-1254 Peak 2	5.03	5.00	5.06
PCB-1254 Peak 3	5.31	5.28	5.34
PCB-1254 Peak 4	5.54	5.51	5.57
PCB-1254 Peak 5	6.00	5.97	6.03

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 490-239249/1-A

Matrix: Water Lab File ID: 041415hp37.042dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2015 22:39

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.500	U	0.500	0.0640
12672-29-6	PCB-1248	0.500	U	0.500	0.0690
11097-69-1	PCB-1254	0.500	U	0.500	0.00700

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	80		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 490-239249/1-A

Matrix: Water Lab File ID: 041415hp37.042dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2015 22:39

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-50 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	66		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 490-239550/1-A

Matrix: Water Lab File ID: 041415hp37.008dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 04/07/2015 14:33

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2015 13:49

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.500	U	0.500	0.0640
12672-29-6	PCB-1248	0.500	U	0.500	0.0690
11097-69-1	PCB-1254	0.500	U	0.500	0.00700

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 490-239550/1-A

Matrix: Water Lab File ID: 041415hp37.008dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 04/07/2015 14:33

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2015 13:49

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-50 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	69		10-150
877-09-8	Tetrachloro-m-xylene	89		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 490-241134/7

Matrix: Water Lab File ID: 041415hp37.007dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/14/2015 13:33

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.0300	U	0.0300	0.00640
12672-29-6	PCB-1248	0.0300	U	0.0300	0.00690
11097-69-1	PCB-1254	0.0300	U	0.0300	0.00700

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)			
877-09-8	Tetrachloro-m-xylene			

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 490-241134/81

Matrix: Water Lab File ID: 041415hp37.081dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/15/2015 12:38

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.0300	U	0.0300	0.00640
12672-29-6	PCB-1248	0.0300	U	0.0300	0.00690
11097-69-1	PCB-1254	0.0300	U	0.0300	0.00700

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)			
877-09-8	Tetrachloro-m-xylene			

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 490-239249/2-A

Matrix: Water Lab File ID: 041415hp37.043dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2015 22:55

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	78		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 490-239249/2-A

Matrix: Water Lab File ID: 041415hp37.043dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 04/06/2015 13:34

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2015 22:55

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-50 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	64		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 490-239550/2-A

Matrix: Water Lab File ID: 041415hp37.009dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 04/07/2015 14:33

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2015 14:04

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-50 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 241134 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	66		10-150
877-09-8	Tetrachloro-m-xylene	78		10-150

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Start Date: 03/31/2015 01:54

Analysis Batch Number: 237639 End Date: 03/31/2015 10:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 490-237639/25		03/31/2015 01:54	1	033015hp37.025dat.d	RTX-5 0.32(mm)
IC 490-237639/25		03/31/2015 01:54	1	033015hp37.025dat.d	RTX-50 0.32(mm)
IC 490-237639/26		03/31/2015 02:10	1	033015hp37.026dat.d	RTX-5 0.32(mm)
IC 490-237639/26		03/31/2015 02:10	1	033015hp37.026dat.d	RTX-50 0.32(mm)
IC 490-237639/27		03/31/2015 02:25	1	033015hp37.027dat.d	RTX-5 0.32(mm)
IC 490-237639/27		03/31/2015 02:25	1	033015hp37.027dat.d	RTX-50 0.32(mm)
IC 490-237639/28		03/31/2015 02:41	1	033015hp37.028dat.d	RTX-5 0.32(mm)
IC 490-237639/28		03/31/2015 02:41	1	033015hp37.028dat.d	RTX-50 0.32(mm)
ICIS 490-237639/29		03/31/2015 02:56	1	033015hp37.029dat.d	RTX-5 0.32(mm)
ICIS 490-237639/29		03/31/2015 02:56	1	033015hp37.029dat.d	RTX-50 0.32(mm)
IC 490-237639/30		03/31/2015 03:12	1	033015hp37.030dat.d	RTX-5 0.32(mm)
IC 490-237639/30		03/31/2015 03:12	1	033015hp37.030dat.d	RTX-50 0.32(mm)
IC 490-237639/31		03/31/2015 03:27	1	033015hp37.031dat.d	RTX-5 0.32(mm)
IC 490-237639/31		03/31/2015 03:27	1	033015hp37.031dat.d	RTX-50 0.32(mm)
ICV 490-237639/32		03/31/2015 03:43	1		RTX-5 0.32(mm)
ICV 490-237639/32		03/31/2015 03:43	1		RTX-50 0.32(mm)
IC 490-237639/33		03/31/2015 03:59	1	033015hp37.033dat.d	RTX-5 0.32(mm)
IC 490-237639/33		03/31/2015 03:59	1	033015hp37.033dat.d	RTX-50 0.32(mm)
IC 490-237639/34		03/31/2015 04:14	1	033015hp37.034dat.d	RTX-5 0.32(mm)
IC 490-237639/34		03/31/2015 04:14	1	033015hp37.034dat.d	RTX-50 0.32(mm)
IC 490-237639/35		03/31/2015 04:30	1	033015hp37.035dat.d	RTX-5 0.32(mm)
IC 490-237639/35		03/31/2015 04:30	1	033015hp37.035dat.d	RTX-50 0.32(mm)
IC 490-237639/36		03/31/2015 04:45	1	033015hp37.036dat.d	RTX-5 0.32(mm)
IC 490-237639/36		03/31/2015 04:45	1	033015hp37.036dat.d	RTX-50 0.32(mm)
ICIS 490-237639/37		03/31/2015 05:00	1	033015hp37.037dat.d	RTX-5 0.32(mm)
ICIS 490-237639/37		03/31/2015 05:00	1	033015hp37.037dat.d	RTX-50 0.32(mm)
IC 490-237639/38		03/31/2015 05:16	1	033015hp37.038dat.d	RTX-5 0.32(mm)
IC 490-237639/38		03/31/2015 05:16	1	033015hp37.038dat.d	RTX-50 0.32(mm)
IC 490-237639/39		03/31/2015 05:31	1	033015hp37.039dat.d	RTX-5 0.32(mm)
IC 490-237639/39		03/31/2015 05:31	1	033015hp37.039dat.d	RTX-50 0.32(mm)
ICV 490-237639/40		03/31/2015 05:47	1		RTX-5 0.32(mm)
ICV 490-237639/40		03/31/2015 05:47	1		RTX-50 0.32(mm)
IC 490-237639/41		03/31/2015 06:02	1	033015hp37.041dat.d	RTX-5 0.32(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Start Date: 03/31/2015 01:54

Analysis Batch Number: 237639 End Date: 03/31/2015 10:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 490-237639/41		03/31/2015 06:02	1	033015hp37.041dat.d	RTX-50 0.32(mm)
IC 490-237639/42		03/31/2015 06:18	1	033015hp37.042dat.d	RTX-5 0.32(mm)
IC 490-237639/42		03/31/2015 06:18	1	033015hp37.042dat.d	RTX-50 0.32(mm)
IC 490-237639/43		03/31/2015 06:33	1	033015hp37.043dat.d	RTX-5 0.32(mm)
IC 490-237639/43		03/31/2015 06:33	1	033015hp37.043dat.d	RTX-50 0.32(mm)
IC 490-237639/44		03/31/2015 06:49	1	033015hp37.044dat.d	RTX-5 0.32(mm)
IC 490-237639/44		03/31/2015 06:49	1	033015hp37.044dat.d	RTX-50 0.32(mm)
ICIS 490-237639/45		03/31/2015 07:04	1	033015hp37.045dat.d	RTX-5 0.32(mm)
ICIS 490-237639/45		03/31/2015 07:04	1	033015hp37.045dat.d	RTX-50 0.32(mm)
IC 490-237639/46		03/31/2015 07:20	1	033015hp37.046dat.d	RTX-5 0.32(mm)
IC 490-237639/46		03/31/2015 07:20	1	033015hp37.046dat.d	RTX-50 0.32(mm)
IC 490-237639/47		03/31/2015 07:35	1	033015hp37.047dat.d	RTX-5 0.32(mm)
IC 490-237639/47		03/31/2015 07:35	1	033015hp37.047dat.d	RTX-50 0.32(mm)
ICV 490-237639/48		03/31/2015 07:51	1		RTX-5 0.32(mm)
ICV 490-237639/48		03/31/2015 07:51	1		RTX-50 0.32(mm)
IC 490-237639/49		03/31/2015 08:07	1	033015hp37.049dat.d	RTX-5 0.32(mm)
IC 490-237639/49		03/31/2015 08:07	1	033015hp37.049dat.d	RTX-50 0.32(mm)
IC 490-237639/50		03/31/2015 08:22	1	033015hp37.050dat.d	RTX-5 0.32(mm)
IC 490-237639/50		03/31/2015 08:22	1	033015hp37.050dat.d	RTX-50 0.32(mm)
IC 490-237639/51		03/31/2015 08:37	1	033015hp37.051dat.d	RTX-5 0.32(mm)
IC 490-237639/51		03/31/2015 08:37	1	033015hp37.051dat.d	RTX-50 0.32(mm)
IC 490-237639/52		03/31/2015 08:53	1	033015hp37.052dat.d	RTX-5 0.32(mm)
IC 490-237639/52		03/31/2015 08:53	1	033015hp37.052dat.d	RTX-50 0.32(mm)
ICIS 490-237639/53		03/31/2015 09:09	1	033015hp37.053dat.d	RTX-5 0.32(mm)
ICIS 490-237639/53		03/31/2015 09:09	1	033015hp37.053dat.d	RTX-50 0.32(mm)
IC 490-237639/54		03/31/2015 09:24	1	033015hp37.054dat.d	RTX-5 0.32(mm)
IC 490-237639/54		03/31/2015 09:24	1	033015hp37.054dat.d	RTX-50 0.32(mm)
IC 490-237639/55		03/31/2015 09:40	1	033015hp37.055dat.d	RTX-5 0.32(mm)
IC 490-237639/55		03/31/2015 09:40	1	033015hp37.055dat.d	RTX-50 0.32(mm)
ICV 490-237639/56		03/31/2015 09:55	1		RTX-5 0.32(mm)
ICV 490-237639/56		03/31/2015 09:55	1		RTX-50 0.32(mm)
ICB 490-237639/57		03/31/2015 10:11	1		RTX-5 0.32(mm)
ICB 490-237639/57		03/31/2015 10:11	1		RTX-50 0.32(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Start Date: 03/31/2015 16:05

Analysis Batch Number: 237912 End Date: 03/31/2015 23:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/31/2015 16:05	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 16:05	1		RTX-50 0.32(mm)
IC 490-237912/3		03/31/2015 16:21	1	033115hp37.003dat.d	RTX-5 0.32(mm)
IC 490-237912/3		03/31/2015 16:21	1	033115hp37.003dat.d	RTX-50 0.32(mm)
IC 490-237912/4		03/31/2015 16:36	1	033115hp37.004dat.d	RTX-5 0.32(mm)
IC 490-237912/4		03/31/2015 16:36	1	033115hp37.004dat.d	RTX-50 0.32(mm)
IC 490-237912/5		03/31/2015 16:52	1	033115hp37.005dat.d	RTX-5 0.32(mm)
IC 490-237912/5		03/31/2015 16:52	1	033115hp37.005dat.d	RTX-50 0.32(mm)
IC 490-237912/6		03/31/2015 17:08	1	033115hp37.006dat.d	RTX-5 0.32(mm)
IC 490-237912/6		03/31/2015 17:08	1	033115hp37.006dat.d	RTX-50 0.32(mm)
ICRT 490-237912/7		03/31/2015 17:23	1	033115hp37.007dat.d	RTX-5 0.32(mm)
ICRT 490-237912/7		03/31/2015 17:23	1	033115hp37.007dat.d	RTX-50 0.32(mm)
IC 490-237912/8		03/31/2015 17:39	1	033115hp37.008dat.d	RTX-5 0.32(mm)
IC 490-237912/8		03/31/2015 17:39	1	033115hp37.008dat.d	RTX-50 0.32(mm)
IC 490-237912/9		03/31/2015 17:54	1	033115hp37.009dat.d	RTX-5 0.32(mm)
IC 490-237912/9		03/31/2015 17:54	1	033115hp37.009dat.d	RTX-50 0.32(mm)
ICV 490-237912/10		03/31/2015 18:10	1	033115hp37.010dat.d	RTX-5 0.32(mm)
ICV 490-237912/10		03/31/2015 18:10	1	033115hp37.010dat.d	RTX-50 0.32(mm)
ICB 490-237912/11		03/31/2015 18:26	1		RTX-5 0.32(mm)
ICB 490-237912/11		03/31/2015 18:26	1		RTX-50 0.32(mm)
CCV 490-237912/12		03/31/2015 18:41	1		RTX-5 0.32(mm)
CCV 490-237912/12		03/31/2015 18:41	1		RTX-50 0.32(mm)
CCV 490-237912/13		03/31/2015 18:57	1		RTX-5 0.32(mm)
CCV 490-237912/13		03/31/2015 18:57	1		RTX-50 0.32(mm)
CCV 490-237912/14		03/31/2015 19:13	1		RTX-5 0.32(mm)
CCV 490-237912/14		03/31/2015 19:13	1		RTX-50 0.32(mm)
CCV 490-237912/15		03/31/2015 19:29	1		RTX-5 0.32(mm)
CCV 490-237912/15		03/31/2015 19:29	1		RTX-50 0.32(mm)
CCB 490-237912/16		03/31/2015 19:44	1		RTX-5 0.32(mm)
CCB 490-237912/16		03/31/2015 19:44	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 20:00	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 20:00	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 20:16	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 20:16	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 20:31	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 20:31	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 20:47	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 20:47	1		RTX-50 0.32(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Start Date: 03/31/2015 16:05

Analysis Batch Number: 237912 End Date: 03/31/2015 23:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/31/2015 21:03	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 21:03	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 21:18	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 21:18	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 21:34	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 21:34	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 21:50	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 21:50	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 22:37	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 22:37	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 22:52	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 22:52	1		RTX-50 0.32(mm)
ZZZZZ		03/31/2015 23:09	1		RTX-5 0.32(mm)
ZZZZZ		03/31/2015 23:09	1		RTX-50 0.32(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Start Date: 04/14/2015 12:15

Analysis Batch Number: 241134 End Date: 04/15/2015 12:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 490-241134/2		04/14/2015 12:15	1	041415hp37.002dat.d	RTX-5 0.32(mm)
CCVRT 490-241134/2		04/14/2015 12:15	1	041415hp37.002dat.d	RTX-50 0.32(mm)
CCV 490-241134/3		04/14/2015 12:31	1	041415hp37.003dat.d	RTX-5 0.32(mm)
CCV 490-241134/3		04/14/2015 12:31	1	041415hp37.003dat.d	RTX-50 0.32(mm)
CCV 490-241134/4		04/14/2015 12:46	1	041415hp37.004dat.d	RTX-5 0.32(mm)
CCV 490-241134/4		04/14/2015 12:46	1	041415hp37.004dat.d	RTX-50 0.32(mm)
CCV 490-241134/5		04/14/2015 13:02	1	041415hp37.005dat.d	RTX-5 0.32(mm)
CCV 490-241134/5		04/14/2015 13:02	1	041415hp37.005dat.d	RTX-50 0.32(mm)
CCV 490-241134/6		04/14/2015 13:18	1	041415hp37.006dat.d	RTX-5 0.32(mm)
CCV 490-241134/6		04/14/2015 13:18	1	041415hp37.006dat.d	RTX-50 0.32(mm)
CCB 490-241134/7		04/14/2015 13:33	1	041415hp37.007dat.d	RTX-5 0.32(mm)
CCB 490-241134/7		04/14/2015 13:33	1	041415hp37.007dat.d	RTX-50 0.32(mm)
MB 490-239550/1-A		04/14/2015 13:49	1	041415hp37.008dat.d	RTX-5 0.32(mm)
MB 490-239550/1-A		04/14/2015 13:49	1	041415hp37.008dat.d	RTX-50 0.32(mm)
LCS 490-239550/2-A		04/14/2015 14:04	1	041415hp37.009dat.d	RTX-5 0.32(mm)
LCS 490-239550/2-A		04/14/2015 14:04	1	041415hp37.009dat.d	RTX-50 0.32(mm)
ZZZZZ		04/14/2015 14:20	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 14:20	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 14:35	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 14:35	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 14:51	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 14:51	1		RTX-50 0.32(mm)
490-75933-18	SPMW-14A-GW-HS-040315	04/14/2015 15:22	1	041415hp37.014dat.d	RTX-5 0.32(mm)
490-75933-18	SPMW-14A-GW-HS-040315	04/14/2015 15:22	1	041415hp37.014dat.d	RTX-50 0.32(mm)
ZZZZZ		04/14/2015 15:38	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 15:38	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 15:53	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 15:53	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 16:09	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 16:09	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 16:25	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 16:25	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 16:40	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 16:40	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 16:56	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 16:56	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 17:12	1		RTX-5 0.32(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Start Date: 04/14/2015 12:15

Analysis Batch Number: 241134 End Date: 04/15/2015 12:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/14/2015 17:12	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 17:27	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 17:27	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 17:43	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 17:43	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 17:58	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 17:58	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 18:14	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 18:14	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 18:29	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 18:29	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 19:01	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 19:01	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 19:17	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 19:17	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 19:32	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 19:32	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 19:48	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 19:48	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 20:03	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 20:03	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 20:19	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 20:19	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 21:06	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 21:06	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 21:21	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 21:21	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 22:08	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 22:08	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 22:24	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 22:24	1		RTX-50 0.32(mm)
MB 490-239249/1-A		04/14/2015 22:39	1	041415hp37.042dat.d	RTX-5 0.32(mm)
MB 490-239249/1-A		04/14/2015 22:39	1	041415hp37.042dat.d	RTX-50 0.32(mm)
LCS 490-239249/2-A		04/14/2015 22:55	1	041415hp37.043dat.d	RTX-5 0.32(mm)
LCS 490-239249/2-A		04/14/2015 22:55	1	041415hp37.043dat.d	RTX-50 0.32(mm)
ZZZZZ		04/14/2015 23:10	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 23:10	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 23:26	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 23:26	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 23:42	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 23:42	1		RTX-50 0.32(mm)
ZZZZZ		04/14/2015 23:57	1		RTX-5 0.32(mm)
ZZZZZ		04/14/2015 23:57	1		RTX-50 0.32(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Start Date: 04/14/2015 12:15

Analysis Batch Number: 241134 End Date: 04/15/2015 12:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/15/2015 00:13	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 00:13	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 00:44	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 00:44	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 01:31	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 01:31	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 01:47	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 01:47	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 02:02	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 02:02	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 02:18	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 02:18	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 02:33	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 02:33	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 02:49	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 02:49	1		RTX-50 0.32(mm)
490-75933-10	SPRW-701-GW-040315	04/15/2015 03:04	1	041415hp37.059dat.d	RTX-5 0.32(mm)
490-75933-10	SPRW-701-GW-040315	04/15/2015 03:04	1	041415hp37.059dat.d	RTX-50 0.32(mm)
ZZZZZ		04/15/2015 03:20	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 03:20	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 03:36	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 03:36	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 03:51	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 03:51	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 04:07	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 04:07	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 04:22	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 04:22	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 04:38	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 04:38	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 04:54	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 04:54	1		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 05:10	1		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 05:10	1		RTX-50 0.32(mm)
490-75933-11	SPRW-702-GW-040315	04/15/2015 05:25	5	041415hp37.068dat.d	RTX-5 0.32(mm)
490-75933-11	SPRW-702-GW-040315	04/15/2015 05:25	5	041415hp37.068dat.d	RTX-50 0.32(mm)
490-75933-12	SPRW-702-GW-040315-FD	04/15/2015 05:41	5	041415hp37.069dat.d	RTX-5 0.32(mm)
490-75933-12	SPRW-702-GW-040315-FD	04/15/2015 05:41	5	041415hp37.069dat.d	RTX-50 0.32(mm)
ZZZZZ		04/15/2015 09:34	10		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 09:34	10		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 09:50	5		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 09:50	5		RTX-50 0.32(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Instrument ID: HP37 Start Date: 04/14/2015 12:15

Analysis Batch Number: 241134 End Date: 04/15/2015 12:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/15/2015 10:05	10		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 10:05	10		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 10:21	5		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 10:21	5		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 10:37	50		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 10:37	50		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 10:52	10		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 10:52	10		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 11:08	5		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 11:08	5		RTX-50 0.32(mm)
ZZZZZ		04/15/2015 11:23	5		RTX-5 0.32(mm)
ZZZZZ		04/15/2015 11:23	5		RTX-50 0.32(mm)
CCV 490-241134/78		04/15/2015 11:51	1	041415hp37.078dat.d	RTX-5 0.32(mm)
CCV 490-241134/78		04/15/2015 11:51	1	041415hp37.078dat.d	RTX-50 0.32(mm)
CCV 490-241134/79		04/15/2015 12:07	1	041415hp37.079dat.d	RTX-5 0.32(mm)
CCV 490-241134/79		04/15/2015 12:07	1	041415hp37.079dat.d	RTX-50 0.32(mm)
CCV 490-241134/80		04/15/2015 12:22	1	041415hp37.080dat.d	RTX-5 0.32(mm)
CCV 490-241134/80		04/15/2015 12:22	1	041415hp37.080dat.d	RTX-50 0.32(mm)
CCB 490-241134/81		04/15/2015 12:38	1	041415hp37.081dat.d	RTX-5 0.32(mm)
CCB 490-241134/81		04/15/2015 12:38	1	041415hp37.081dat.d	RTX-50 0.32(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Batch Number: 239249 Batch Start Date: 04/06/15 13:34 Batch Analyst: Trussell, Eric

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	OP_H2SO4 00013	OP_Hexane 00057	OP_MeCl2 00044
MB 490-239249/1		3510C, 8082A		7	1000 mL	5 mL	4 mL	4 mL	180 mL
LCS 490-239249/2		3510C, 8082A		7	1000 mL	5 mL	4 mL	4 mL	180 mL
490-75933-D-10	SPRW-701-GW-040315	3510C, 8082A	T	7	1070 mL	5 mL	4 mL	4 mL	180 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_NaSO4 00035	OP_PCB_SPK 00027	OP_PPCB_SUR 00032	PCB_Cu_GRAN 00004		
MB 490-239249/1		3510C, 8082A		25 g		1 mL	0.2 mL		
LCS 490-239249/2		3510C, 8082A		25 g	1 mL	1 mL	0.2 mL		
490-75933-D-10	SPRW-701-GW-040315	3510C, 8082A	T	25 g		1 mL	0.2 mL		

Batch Notes	
Person's name who did the concentration	mah,bd
Final Concentrator Volume	5 mL
Person's name who did the prep	et
Person's name who witnessed reagent drop	mm

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Nashville Job No.: 490-75933-1

SDG No.:

Batch Number: 239550 Batch Start Date: 04/07/15 14:33 Batch Analyst: Pierce, Brandon K

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	OP_1:1 Sulfur 00007	OP_Hexane 00057	OP_MeCl2 00044
MB 490-239550/1		3510C, 8082A		7	1000 mL	5 mL	4 mL	4 mL	180 mL
LCS 490-239550/2		3510C, 8082A		7	1000 mL	5 mL	4 mL	4 mL	180 mL
490-75933-D-11	SPRW-702-GW-040315	3510C, 8082A	T	7	1045 mL	5 mL	4 mL	4 mL	180 mL
490-75933-D-12	SPRW-702-GW-040315-FD	3510C, 8082A	T	7	1065 mL	5 mL	4 mL	4 mL	180 mL
490-75933-E-18	SPMW-14A-GW-HS-040315	3510C, 8082A	T	7	1065 mL	5 mL	4 mL	4 mL	180 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_PCB_SPK 00027	OP_PPCB_SUR 00032	PCB_Cu_GRAN 00004			
MB 490-239550/1		3510C, 8082A			1 mL	0.2 mL			
LCS 490-239550/2		3510C, 8082A		1 mL	1 mL	0.2 mL			
490-75933-D-11	SPRW-702-GW-040315	3510C, 8082A	T		1 mL	0.2 mL			
490-75933-D-12	SPRW-702-GW-040315-FD	3510C, 8082A	T		1 mL	0.2 mL			
490-75933-E-18	SPMW-14A-GW-HS-040315	3510C, 8082A	T		1 mL	0.2 mL			

Batch Notes	
Person's name who did the concentration	mah, bgd
Na2SO4 Lot Number	1984702
Oven, Bath or Block Temperature 1	75.1,75.4,75.0
Person's name who did the prep	bkp
Person's name who witnessed reagent drop	mm

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Brown, Shali

From: Shannon.Olson@CH2M.com
Sent: Monday, April 06, 2015 3:09 PM
To: Brown, Shali
Cc: Monica.Schneider@ch2m.com; Angela.Barch@ch2m.com
Subject: RE: TestAmerica Sample Login Confirmation files from 490-75933 Schlumberger Sangamo OU-1 GW 2015 - updated

Shali,
Could you make the following changes?

SPRW-702-GW-HS-040315-FD should be SPRW-702-GW-040315-FD

Correct the sample login to match the IDs and times below.
- BRMW-10-GW-HS-040215 = 1705
- BRMW-11-GW-HS-040215 = 1655
- BRMW-11-GW-HS-040215-FD = 1700

Let me know if you have any questions.

Thanks!

CH2MHILL

Shannon Olson
Environmental Chemist
2020 SW 4th Avenue
Portland, OR 97201
Tel (503) 736-4111
Mobile (262) 388-3899
Fax (503) 736-2063
www.ch2mhill.com

Part-Time Hours:
Monday, Tuesday, Thursday, Friday – 8:30 to 1:30 Central Time
Wednesday – OFF

From: Brown, Shali [mailto:Shali.Brown@testamericainc.com]
Sent: Monday, April 06, 2015 1:22 PM
To: Brown, Shali; Furlow, Lillian/ATL; Olson, Shannon/PDX
Subject: RE: TestAmerica Sample Login Confirmation files from 490-75933 Schlumberger Sangamo OU-1 GW 2015 - updated

Hi Ladies,

I forgot to include this information…….

1) The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): BRMW-10-GW-HS-040215 (490-75933-1), BRMW-10-GW-HS-040215-FD (490-75933-2). The container labels list BRMW-11, while the COC lists BRMW-10. Let me know which sample ID to use.

2) One or more containers for the following sample(s) was received broken or leaking: BRMW-04A-GW-HS-040215 (490-75933-7), BRMW-10-GW-HS-040215-FD (490-75933-2), SPRW-303A-GW-040315-FD (490-75933-24). 1 voa for each

sample was broken in shipment. We have other vials for analysis.

3) The following sample(s) was received with headspace in the sample vial: 490-75933-19 (SPMW-2-GW-040315) -- Headspace in 1 VOA; we have other vials for analysis.

Shali

From: Brown, Shali [mailto:shali.brown@testamericainc.com]
Sent: Monday, April 06, 2015 1:21 PM
To: Lillian Furlow; Shannon Olson
Subject: TestAmerica Sample Login Confirmation files from 490-75933 Schlumberger Sangamo OU-1 GW 2015

Hello,

Attached please find the Sample Confirmation files for job 490-75933; Schlumberger Sangamo OU-1 GW 2015

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

SHALI BROWN
Project Manager II

TestAmerica Nashville
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 615.301.5031

Reference: [211996]
Attachments: 4

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT I

490-75933-01 Chain of Custody

Cooler Received/Opened On 4/4/2015 @ 0815

1. Tracking # 3564 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID 17960357

2. Temperature of rep. sample or temp blank when opened: 4.9 *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) LG

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? EF 4-4-15 (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 # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) ⊕

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) ⊕

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) ⊕

I certify that I attached a label with the unique LIMS number to each container (intial) ⊕

21. Were there Non-Conformance issues at login? (YES)..NO Was a NCM generated? (YES)..(NO)..# * EF 4-4-15

** BRMW-11 on vials sample 1&2 # 2 BRMW-11 * BRMW-04A SPRW-303A } 1 VOA BIS

SPMW-2 Headspace in 1 VOA

BIS = Broken in shipment

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Charleston
Loc: 490
75933

Cooler Received/Opened On 4/4/2015 @ 8:15

1. Tracking # 7880 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: 1.2 *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:

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) EVA

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 # N/A

I certify that I unloaded the cooler and answered questions 7-14 (intial) [signature]

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) [signature]

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) [signature]

I certify that I attached a label with the unique LIMS number to each container (intial) [signature]

21. Were there Non-Conformance issues at login? YES..(NO) Was a PIPE generated? YES..(NO)..#

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

Chain of Custody Record

1/3

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

04/27/2015

Client Information	Sampler: A. Shuaffe, J. Hambrick	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 490-37072-12552.10
Client Contact: Lillian Furlow / Shannon Olson	Phone:	E-Mail: shali.brown@testamericainc.com		Page:
Company: CH2M Hill, Inc.				Job #:

Address: Embassy Row 6600 Peachtree Dunwoody Road Building 400 -	Due Date Requested:
City: Atlanta	TAT Requested (days): Standard 10 day TAT Level III Data Package
State, Zip: GA, 30328	
Phone: 603-736-4111	PO #:
Email: lillian.furlow@ch2m.com	WO #:
Project Name: Sangamo Weston Annual 2015	Project #: 49005908
Site:	SSOW#: (contract 472789-10001)

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 - Na2S2SO3
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) Appendix IX - CUSTOM List	8082A - Standard PCBs (1016-1260)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N		
1 BRMW-10-GW-HS-040215	4-2-15	1655	G	Water			3			Custom VOC: cis-1,2-DCE
2 BRMW-10-GW-HS-040215-FD		1700		Water			3			1-1DCE, PCE, trans-1,2-DCE,
3 BRMW-10-GW-HS-040215		1705		Water			3			TCE & vinyl chloride
4 BRMW-05-GW-HS-040215		1710		Water			3			w/ Ascorbic Acid
5 BRMW-05A-GW-HS-040215		1715		Water			3			w/ Ascorbic Acid
6 BRMW-04-GW-HS-040215		1725		Water			3			w/ Ascorbic Acid
7 BRMW-04A-GW-HS-040215		1730		Water			3			
8 BRMW-01-GW-HS-040215		1740		Water			3			
9 TB-03-040215	4-2-15	1800		Water			2			Custom PCB list:
10 SPRW-701-GW-040315	4-3-15	0950		Water			3	2		Aroclor 1242, 1248 & 1254
11 SPRW-702-GW-040315		0950		W			9	6		MS/MSD

Loc: 490
75933

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Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ 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: 1,2,4,9 Date/Time: 4-4-15 08:15 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:

Chain of Custody Record

2/3

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

04/27/2015

Client Information	Sampler:	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 490-37072-12552.10
Client Contact: Lillian Furlow / Shannon Olsen	Phone:	E-Mail: shali.brown@testamericainc.com		Page:
Company: CH2M Hill, Inc.		Analysis Requested		Job #:
Address: Embassy Row 6600 Peachtree Dunwoody Road Building 400 -	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
City: Atlanta	TAT Requested (days): Standard 10 day TAT Level III Data Package			
State, Zip: GA, 30328				
Phone:	PO #:			Other:
Email: lillian.furlow@ch2m.com	WO #:			
Project Name: Sangamo Weston Annual 2015	Project #: 49005908			
Site:	SSOW#: (contract 472789-10001)			

	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) Appendix IX - CUSTOM List	8082A - Standard PCBs (1016-1260)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				A	N		
12	SPRW-702-GW-HS-040315-FD	4-3-15	1050	G	Water			3	2		custom list pg 1
13	SPRW-302-GW-HS-040315		1300		Water			3			
14	SPRW-301-GW-HS-040315		1330		Water			3			
15	SPMW-4A-GW-HS-040315		1425		Water			3			
16	SPMW-4-GW-HS-040315		1430		Water			3			
17	SHMW-10-GW-HS-040315		1455		Water			3			Loc: 490 75933
18	SPMW-14A-GW-HS-040315		1540		Water			3	2		
19	SPMW-2-GW-HS-040315		1600		Water			2			
20	SDMW-1-GW-HS-040315		1630		Water			3			
21	SFMW-16-GW-HS-040315		1650		Water			3			
22	SPMW-11-GW-HS-040315		1705		W			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
			1.2, 4.9	4-4-15 0815	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:

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Chain of Custody Record

3/3

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

04/27/2015

Client Information	Sampler:	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 490-37072-12552.10
Client Contact: Lillian Furlow	Phone:	E-Mail: shali.brown@testamericainc.com		Page:
Company: CH2M Hill, Inc.				Job #:

Address: Embassy Row 6600 Peachtree Dunwoody Road Building 400 -	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Atlanta	TAT Requested (days): Standard 10 day TAT Level III Data Package		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: GA, 30328			Other:
Phone:	PO #:		
Email: lillian.furlow@ch2m.com	WO #:		
Project Name: Sangamo Weston Annual 2015	Project #: 49005908		
Site:	SSOW#: (contract 472789-10001)		

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) Appendix IX - CUSTOM List	8082A - Standard PCBs (1016-1260)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N		
23 SPRW-303A-GW-HS-040315	4-3-15	1150	G	Water			3			custom list pg 1
24 SPRW-303A-GW-HS-040315	↓	1155	↓	Water			3			
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						

Loc: 490
75933

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Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ 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
			1,2,4,9	4-4-15 0815	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:

Login Sample Receipt Checklist

Client: CH2M Hill, Inc.

Job Number: 490-75933-1

Login Number: 75933

List Source: TestAmerica Nashville

List Number: 1

Creator: Ford, Easton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Containers received broken. No volume could be salvaged for analysis.
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").	False	Headspace larger than 1/4" in one or more vials, one vial with accpt. headspace
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 490-77157-1

Job Description: Schlumberger Sangamo OU-1 GW 2015

For:
CH2M Hill, Inc.
Embassy Row
6600 Peachtree Dunwoody Road
Building 400 - Suite 600
Atlanta, GA 30328

Attention: Lillian Furlow

Approved for release.
Shali Brown
Project Manager II
4/30/2015 1:11 PM

Shali Brown, Project Manager II
2960 Foster Creighton Drive, Nashville, TN, 37204
(615)301-5031
shali.brown@testamericainc.com
04/30/2015

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CASE NARRATIVE

Client: CH2M Hill, Inc.

Project: Schlumberger Sangamo OU-1 GW 2015

Report Number: 490-77157-1

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

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

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

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 4/24/2015 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.5º C and 3.7º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples SGMW-8-GW-HS-042215 (490-77157-1), SPMW-12-GW-HS-042215 (490-77157-2), MW-7-GW-HS-042215 (490-77157-3), MW-6-GW-HS-042215 (490-77157-4), SWMW-7-GW-042315 (490-77157-5), SWMW-7A-GW-042315 (490-77157-6), SWMW-8-GW-042315 (490-77157-7), SPRW-401-GW-042315 (490-77157-8), SDMW-3-GW-042315 (490-77157-9), SPMW-21-042315 (490-77157-10), SPMW-24-042315 (490-77157-11), EB-042315 (490-77157-12) and TB-04-042315 (490-77157-13) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/28/2015.

Samples SPMW-12-GW-HS-042215 (490-77157-2)[20X], SWMW-7A-GW-042315 (490-77157-6)[5X] and SDMW-3-GW-042315 (490-77157-9)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

POLYCHLORINATED BIPHENYLS (PCBS)

Samples SPMW-12-GW-HS-042215 (490-77157-2), SWMW-7-GW-042315 (490-77157-5), SWMW-7A-GW-042315 (490-77157-6), SWMW-8-GW-042315 (490-77157-7), SPRW-401-GW-042315 (490-77157-8), SDMW-3-GW-042315 (490-77157-9) and EB-042315 (490-77157-12) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 04/24/2015 and analyzed on 04/27/2015 and 04/28/2015.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 243673.

Samples SWMW-7A-GW-042315 (490-77157-6)[10X] and SPRW-401-GW-042315 (490-77157-8)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP32 Analysis Batch Number: 233414

Lab Sample ID: STD0005 490-233414/2 IC Client Sample ID:

Date Analyzed: 03/13/15 11:26 Lab File ID: 031315-02.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	1.65	Poor chromatography	larsene	03/13/15 14:53

Lab Sample ID: STD001 490-233414/3 IC Client Sample ID:

Date Analyzed: 03/13/15 11:52 Lab File ID: 031315-03.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	1.65	Poor chromatography	larsene	03/13/15 13:51

Lab Sample ID: STD002 490-233414/4 IC Client Sample ID:

Date Analyzed: 03/13/15 12:19 Lab File ID: 031315-04.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	1.66	Split Peak	larsene	03/13/15 14:58

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241477

Lab Sample ID: IC 490-241477/2 Client Sample ID:

Date Analyzed: 04/15/15 17:59 Lab File ID: 041515hp37.015dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	4.94	Baseline Smoothing	harrisma	04/16/15 10:25
PCB-1260 Peak 2	5.28	Baseline Smoothing	harrisma	04/16/15 10:25
PCB-1260 Peak 3	5.63	Baseline Smoothing	harrisma	04/16/15 10:25
PCB-1260 Peak 4	6.09	Baseline Smoothing	harrisma	04/16/15 10:25
PCB-1260 Peak 5	6.50	Baseline Smoothing	harrisma	04/16/15 10:25

Lab Sample ID: IC 490-241477/2 Client Sample ID:

Date Analyzed: 04/15/15 17:59 Lab File ID: 041515hp37.015dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.40	Baseline Smoothing	harrisma	04/16/15 10:25
PCB-1016 Peak 2	2.74	Baseline Smoothing	harrisma	04/16/15 10:25
PCB-1016 Peak 3	2.94	Baseline Smoothing	harrisma	04/16/15 10:25
PCB-1016 Peak 4	2.97	Baseline Smoothing	harrisma	04/16/15 10:25
PCB-1016 Peak 5	3.17	Baseline Smoothing	harrisma	04/16/15 10:25
PCB-1260 Peak 1	5.53	Baseline Smoothing	harrisma	04/16/15 10:25
PCB-1260 Peak 2	5.99	Baseline Smoothing	harrisma	04/16/15 10:25
PCB-1260 Peak 3	6.50	Baseline Smoothing	harrisma	04/16/15 10:25
PCB-1260 Peak 4	6.59	Baseline Smoothing	harrisma	04/16/15 10:25
PCB-1260 Peak 5	6.83	Baseline Smoothing	harrisma	04/16/15 10:56
DCB Decachlorobiphenyl (Surr)	8.91	Split Peak	harrisma	04/16/15 10:25

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241477

Lab Sample ID: IC 490-241477/3 Client Sample ID:

Date Analyzed: 04/15/15 18:15 Lab File ID: 041515hp37.016dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.40	Split Peak	harrisma	04/16/15 10:27
PCB-1016 Peak 2	2.74	Split Peak	harrisma	04/16/15 10:27
PCB-1016 Peak 3	2.93	Split Peak	harrisma	04/16/15 10:27
PCB-1016 Peak 4	2.97	Split Peak	harrisma	04/16/15 10:27
PCB-1016 Peak 5	3.17	Split Peak	harrisma	04/16/15 10:27
PCB-1260 Peak 1	5.53	Baseline Smoothing	harrisma	04/16/15 10:57
PCB-1260 Peak 2	5.99	Baseline Smoothing	harrisma	04/16/15 10:57
PCB-1260 Peak 3	6.50	Baseline Smoothing	harrisma	04/16/15 10:57
PCB-1260 Peak 4	6.59	Baseline Smoothing	harrisma	04/16/15 10:57
PCB-1260 Peak 5	6.83	Baseline Smoothing	harrisma	04/16/15 10:57
DCB Decachlorobiphenyl (Surr)	8.91	Baseline Smoothing	harrisma	04/16/15 10:27

Lab Sample ID: IC 490-241477/4 Client Sample ID:

Date Analyzed: 04/15/15 18:31 Lab File ID: 041515hp37.017dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.30	Baseline Smoothing	harrisma	04/16/15 10:29
PCB-1016 Peak 2	2.60	Baseline Smoothing	harrisma	04/16/15 10:29
PCB-1016 Peak 3	2.76	Baseline Smoothing	harrisma	04/16/15 10:29
PCB-1016 Peak 4	2.78	Baseline Smoothing	harrisma	04/16/15 10:29
PCB-1016 Peak 5	3.02	Baseline Smoothing	harrisma	04/16/15 10:29
PCB-1260 Peak 1	4.94	Baseline Smoothing	harrisma	04/16/15 10:29
PCB-1260 Peak 2	5.28	Baseline Smoothing	harrisma	04/16/15 10:29
PCB-1260 Peak 3	5.63	Baseline Smoothing	harrisma	04/16/15 10:29
PCB-1260 Peak 4	6.09	Baseline Smoothing	harrisma	04/16/15 10:29
PCB-1260 Peak 5	6.50	Baseline Smoothing	harrisma	04/16/15 10:29

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241477

Lab Sample ID: IC 490-241477/4 Client Sample ID:

Date Analyzed: 04/15/15 18:31 Lab File ID: 041515hp37.017dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.40	Split Peak	harrisma	04/16/15 10:53
PCB-1016 Peak 2	2.74	Split Peak	harrisma	04/16/15 10:29
PCB-1016 Peak 3	2.93	Split Peak	harrisma	04/16/15 10:29
PCB-1016 Peak 4	2.97	Split Peak	harrisma	04/16/15 10:29
PCB-1016 Peak 5	3.17	Split Peak	harrisma	04/16/15 10:29
PCB-1260 Peak 1	5.53	Baseline Smoothing	harrisma	04/16/15 10:57
PCB-1260 Peak 2	5.99	Baseline Smoothing	harrisma	04/16/15 10:57
PCB-1260 Peak 3	6.49	Baseline Smoothing	harrisma	04/16/15 10:57
PCB-1260 Peak 4	6.59	Baseline Smoothing	harrisma	04/16/15 10:57
PCB-1260 Peak 5	6.83	Baseline Smoothing	harrisma	04/16/15 10:57

Lab Sample ID: IC 490-241477/5 Client Sample ID:

Date Analyzed: 04/15/15 18:46 Lab File ID: 041515hp37.018dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.31	Baseline Smoothing	harrisma	04/16/15 10:30
PCB-1016 Peak 2	2.60	Baseline Smoothing	harrisma	04/16/15 10:30
PCB-1016 Peak 3	2.76	Baseline Smoothing	harrisma	04/16/15 10:30
PCB-1016 Peak 4	2.79	Baseline Smoothing	harrisma	04/16/15 10:30
PCB-1016 Peak 5	3.03	Baseline Smoothing	harrisma	04/16/15 10:30
PCB-1260 Peak 1	4.94	Baseline Smoothing	harrisma	04/16/15 10:30
PCB-1260 Peak 2	5.28	Baseline Smoothing	harrisma	04/16/15 10:30
PCB-1260 Peak 3	5.63	Baseline Smoothing	harrisma	04/16/15 10:30
PCB-1260 Peak 4	6.10	Baseline Smoothing	harrisma	04/16/15 10:30
PCB-1260 Peak 5	6.50	Baseline Smoothing	harrisma	04/16/15 10:30

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241477

Lab Sample ID: IC 490-241477/5 Client Sample ID:

Date Analyzed: 04/15/15 18:46 Lab File ID: 041515hp37.018dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.40	Split Peak	harrisma	04/16/15 10:30
PCB-1016 Peak 2	2.74	Split Peak	harrisma	04/16/15 10:30
PCB-1016 Peak 3	2.94	Split Peak	harrisma	04/16/15 10:30
PCB-1016 Peak 4	2.97	Split Peak	harrisma	04/16/15 10:30
PCB-1016 Peak 5	3.17	Split Peak	harrisma	04/16/15 10:30

Lab Sample ID: ICIS 490-241477/6 Client Sample ID:

Date Analyzed: 04/15/15 19:02 Lab File ID: 041515hp37.019dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	4.94	Split Peak	harrisma	04/16/15 10:12
PCB-1260 Peak 2	5.28	Split Peak	harrisma	04/16/15 10:12
PCB-1260 Peak 3	5.63	Split Peak	harrisma	04/16/15 10:12
PCB-1260 Peak 4	6.10	Split Peak	harrisma	04/16/15 10:12
PCB-1260 Peak 5	6.50	Split Peak	harrisma	04/16/15 10:12

Lab Sample ID: ICIS 490-241477/6 Client Sample ID:

Date Analyzed: 04/15/15 19:02 Lab File ID: 041515hp37.019dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.40	Split Peak	harrisma	04/16/15 10:12
PCB-1016 Peak 2	2.74	Split Peak	harrisma	04/16/15 10:12
PCB-1016 Peak 3	2.94	Split Peak	harrisma	04/16/15 10:12
PCB-1016 Peak 4	2.97	Split Peak	harrisma	04/16/15 10:12
PCB-1016 Peak 5	3.17	Split Peak	harrisma	04/16/15 10:12

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241477

Lab Sample ID: IC 490-241477/7 Client Sample ID:

Date Analyzed: 04/15/15 19:18 Lab File ID: 041515hp37.020dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	4.94	Split Peak	harrisma	04/16/15 10:30
PCB-1260 Peak 2	5.28	Split Peak	harrisma	04/16/15 10:30
PCB-1260 Peak 3	5.63	Split Peak	harrisma	04/16/15 10:30
PCB-1260 Peak 4	6.09	Split Peak	harrisma	04/16/15 10:30
PCB-1260 Peak 5	6.50	Split Peak	harrisma	04/16/15 10:30

Lab Sample ID: IC 490-241477/7 Client Sample ID:

Date Analyzed: 04/15/15 19:18 Lab File ID: 041515hp37.020dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.40	Split Peak	harrisma	04/16/15 10:30
PCB-1016 Peak 2	2.74	Split Peak	harrisma	04/16/15 10:30
PCB-1016 Peak 3	2.94	Split Peak	harrisma	04/16/15 10:30
PCB-1016 Peak 4	2.97	Split Peak	harrisma	04/16/15 10:30
PCB-1016 Peak 5	3.17	Split Peak	harrisma	04/16/15 10:30

Lab Sample ID: IC 490-241477/8 Client Sample ID:

Date Analyzed: 04/15/15 19:33 Lab File ID: 041515hp37.021dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.55	Baseline Smoothing	harrisma	04/16/15 10:32
PCB-1260 Peak 1	4.94	Split Peak	harrisma	04/16/15 10:32
PCB-1260 Peak 2	5.28	Split Peak	harrisma	04/16/15 10:32
PCB-1260 Peak 3	5.63	Split Peak	harrisma	04/16/15 10:32
PCB-1260 Peak 4	6.10	Split Peak	harrisma	04/16/15 10:32
PCB-1260 Peak 5	6.50	Split Peak	harrisma	04/16/15 10:32

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241477

Lab Sample ID: IC 490-241477/8 Client Sample ID:

Date Analyzed: 04/15/15 19:33 Lab File ID: 041515hp37.021dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.40	Split Peak	harrisma	04/16/15 10:32
PCB-1016 Peak 2	2.74	Split Peak	harrisma	04/16/15 10:32
PCB-1016 Peak 3	2.94	Split Peak	harrisma	04/16/15 10:32
PCB-1016 Peak 4	2.97	Split Peak	harrisma	04/16/15 10:32
PCB-1016 Peak 5	3.17	Split Peak	harrisma	04/16/15 10:32

Lab Sample ID: ICV 490-241477/9 Client Sample ID:

Date Analyzed: 04/15/15 19:49 Lab File ID: 041515hp37.022dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	4.94	Split Peak	harrisma	04/16/15 10:33
PCB-1260 Peak 2	5.28	Split Peak	harrisma	04/16/15 10:33
PCB-1260 Peak 3	5.63	Split Peak	harrisma	04/16/15 10:33
PCB-1260 Peak 4	6.09	Split Peak	harrisma	04/16/15 10:33
PCB-1260 Peak 5	6.50	Split Peak	harrisma	04/16/15 10:33

Lab Sample ID: ICV 490-241477/9 Client Sample ID:

Date Analyzed: 04/15/15 19:49 Lab File ID: 041515hp37.022dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.40	Split Peak	harrisma	04/16/15 10:33
PCB-1016 Peak 2	2.74	Split Peak	harrisma	04/16/15 10:33
PCB-1016 Peak 3	2.93	Split Peak	harrisma	04/16/15 10:33
PCB-1016 Peak 4	2.97	Split Peak	harrisma	04/16/15 10:33
PCB-1016 Peak 5	3.17	Split Peak	harrisma	04/16/15 10:33

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241477

Lab Sample ID: IC 490-241477/10 Client Sample ID:

Date Analyzed: 04/15/15 20:05 Lab File ID: 041515hp37.023dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.49	Baseline Smoothing	harrisma	04/16/15 10:33
PCB-1254 Peak 1	4.48	Baseline Smoothing	harrisma	04/16/15 11:03
PCB-1254 Peak 2	5.03	Baseline Smoothing	harrisma	04/16/15 11:03
PCB-1254 Peak 3	5.31	Baseline Smoothing	harrisma	04/16/15 11:03
PCB-1254 Peak 4	5.53	Baseline Smoothing	harrisma	04/16/15 11:03
PCB-1254 Peak 5	5.99	Baseline Smoothing	harrisma	04/16/15 11:03

Lab Sample ID: IC 490-241477/11 Client Sample ID:

Date Analyzed: 04/15/15 20:20 Lab File ID: 041515hp37.024dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1254 Peak 1	4.48	Baseline Smoothing	harrisma	04/16/15 11:03
PCB-1254 Peak 2	5.03	Baseline Smoothing	harrisma	04/16/15 11:03
PCB-1254 Peak 3	5.31	Baseline Smoothing	harrisma	04/16/15 11:03
PCB-1254 Peak 4	5.53	Baseline Smoothing	harrisma	04/16/15 11:03
PCB-1254 Peak 5	5.99	Baseline Smoothing	harrisma	04/16/15 11:03

Lab Sample ID: IC 490-241477/12 Client Sample ID:

Date Analyzed: 04/15/15 20:36 Lab File ID: 041515hp37.025dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1254 Peak 1	4.48	Baseline Smoothing	harrisma	04/16/15 11:03
PCB-1254 Peak 2	5.03	Baseline Smoothing	harrisma	04/16/15 11:03
PCB-1254 Peak 3	5.31	Baseline Smoothing	harrisma	04/16/15 11:03
PCB-1254 Peak 4	5.53	Baseline Smoothing	harrisma	04/16/15 11:03
PCB-1254 Peak 5	5.99	Baseline Smoothing	harrisma	04/16/15 11:03

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241477

Lab Sample ID: IC 490-241477/13 Client Sample ID:

Date Analyzed: 04/15/15 20:52 Lab File ID: 041515hp37.026dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1254 Peak 1	4.48	Baseline Smoothing	harrisma	04/16/15 11:03
PCB-1254 Peak 2	5.03	Baseline Smoothing	harrisma	04/16/15 11:03
PCB-1254 Peak 3	5.31	Baseline Smoothing	harrisma	04/16/15 11:03
PCB-1254 Peak 4	5.53	Baseline Smoothing	harrisma	04/16/15 11:03
PCB-1254 Peak 5	5.99	Baseline Smoothing	harrisma	04/16/15 11:03

Lab Sample ID: ICIS 490-241477/14 Client Sample ID:

Date Analyzed: 04/15/15 21:07 Lab File ID: 041515hp37.027dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1254 Peak 1	4.48	Baseline Smoothing	harrisma	04/16/15 11:04
PCB-1254 Peak 2	5.03	Baseline Smoothing	harrisma	04/16/15 11:04
PCB-1254 Peak 3	5.31	Baseline Smoothing	harrisma	04/16/15 11:04
PCB-1254 Peak 4	5.53	Baseline Smoothing	harrisma	04/16/15 11:04
PCB-1254 Peak 5	5.99	Baseline Smoothing	harrisma	04/16/15 11:04

Lab Sample ID: IC 490-241477/15 Client Sample ID:

Date Analyzed: 04/15/15 21:23 Lab File ID: 041515hp37.028dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1254 Peak 1	4.48	Baseline Smoothing	harrisma	04/16/15 11:04
PCB-1254 Peak 2	5.04	Baseline Smoothing	harrisma	04/16/15 11:04
PCB-1254 Peak 3	5.31	Baseline Smoothing	harrisma	04/16/15 11:04
PCB-1254 Peak 4	5.53	Baseline Smoothing	harrisma	04/16/15 11:04
PCB-1254 Peak 5	5.99	Baseline Smoothing	harrisma	04/16/15 11:04

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241477

Lab Sample ID: IC 490-241477/16 Client Sample ID:

Date Analyzed: 04/15/15 21:38 Lab File ID: 041515hp37.029dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1254 Peak 1	4.48	Baseline Smoothing	harrisma	04/16/15 11:04
PCB-1254 Peak 2	5.04	Baseline Smoothing	harrisma	04/16/15 11:04
PCB-1254 Peak 3	5.32	Baseline Smoothing	harrisma	04/16/15 11:04
PCB-1254 Peak 4	5.53	Baseline Smoothing	harrisma	04/16/15 11:04
PCB-1254 Peak 5	6.00	Baseline Smoothing	harrisma	04/16/15 11:04

Lab Sample ID: IC 490-241477/18 Client Sample ID:

Date Analyzed: 04/15/15 22:10 Lab File ID: 041515hp37.031dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1262 Peak 3	6.83	Unspecified	thomash	04/16/15 16:48

Lab Sample ID: IC 490-241477/19 Client Sample ID:

Date Analyzed: 04/15/15 22:25 Lab File ID: 041515hp37.032dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1262 Peak 3	6.83	Unspecified	thomash	04/16/15 16:48

Lab Sample ID: IC 490-241477/26 Client Sample ID:

Date Analyzed: 04/16/15 00:15 Lab File ID: 041515hp37.039dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.15	Split Peak	harrisma	04/16/15 10:39
PCB-1242 Peak 2	3.22	Split Peak	harrisma	04/16/15 10:39
PCB-1242 Peak 3	3.33	Split Peak	harrisma	04/16/15 10:39
PCB-1242 Peak 4	3.36	Split Peak	harrisma	04/16/15 10:39
PCB-1242 Peak 5	3.56	Split Peak	harrisma	04/16/15 10:39

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241477

Lab Sample ID: IC 490-241477/27 Client Sample ID:

Date Analyzed: 04/16/15 00:30 Lab File ID: 041515hp37.040dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.15	Split Peak	harrisma	04/16/15 10:41
PCB-1242 Peak 2	3.22	Split Peak	harrisma	04/16/15 10:41
PCB-1242 Peak 3	3.33	Split Peak	harrisma	04/16/15 10:41
PCB-1242 Peak 4	3.36	Split Peak	harrisma	04/16/15 10:41
PCB-1242 Peak 5	3.56	Split Peak	harrisma	04/16/15 10:41

Lab Sample ID: IC 490-241477/28 Client Sample ID:

Date Analyzed: 04/16/15 00:46 Lab File ID: 041515hp37.041dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.15	Split Peak	harrisma	04/16/15 10:42
PCB-1242 Peak 2	3.21	Split Peak	harrisma	04/16/15 10:42
PCB-1242 Peak 3	3.33	Split Peak	harrisma	04/16/15 10:42
PCB-1242 Peak 4	3.36	Split Peak	harrisma	04/16/15 10:42
PCB-1242 Peak 5	3.56	Split Peak	harrisma	04/16/15 10:42

Lab Sample ID: IC 490-241477/29 Client Sample ID:

Date Analyzed: 04/16/15 01:01 Lab File ID: 041515hp37.042dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.15	Split Peak	harrisma	04/16/15 10:43
PCB-1242 Peak 2	3.22	Split Peak	harrisma	04/16/15 10:43
PCB-1242 Peak 3	3.33	Split Peak	harrisma	04/16/15 10:43
PCB-1242 Peak 4	3.36	Split Peak	harrisma	04/16/15 10:43
PCB-1242 Peak 5	3.56	Split Peak	harrisma	04/16/15 10:43

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 241477

Lab Sample ID: ICIS 490-241477/30 Client Sample ID:

Date Analyzed: 04/16/15 01:17 Lab File ID: 041515hp37.043dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.15	Split Peak	harrisma	04/16/15 10:17
PCB-1242 Peak 2	3.22	Split Peak	harrisma	04/16/15 10:17
PCB-1242 Peak 3	3.33	Split Peak	harrisma	04/16/15 10:17
PCB-1242 Peak 4	3.36	Split Peak	harrisma	04/16/15 10:17
PCB-1242 Peak 5	3.57	Split Peak	harrisma	04/16/15 10:17

Lab Sample ID: IC 490-241477/31 Client Sample ID:

Date Analyzed: 04/16/15 01:33 Lab File ID: 041515hp37.044dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.15	Split Peak	harrisma	04/16/15 10:44
PCB-1242 Peak 2	3.21	Split Peak	harrisma	04/16/15 10:44
PCB-1242 Peak 3	3.33	Split Peak	harrisma	04/16/15 10:44
PCB-1242 Peak 4	3.36	Split Peak	harrisma	04/16/15 10:44
PCB-1242 Peak 5	3.56	Split Peak	harrisma	04/16/15 10:44

Lab Sample ID: IC 490-241477/32 Client Sample ID:

Date Analyzed: 04/16/15 01:48 Lab File ID: 041515hp37.045dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.15	Split Peak	harrisma	04/16/15 10:44
PCB-1242 Peak 2	3.22	Split Peak	harrisma	04/16/15 10:44
PCB-1242 Peak 3	3.33	Split Peak	harrisma	04/16/15 10:44
PCB-1242 Peak 4	3.36	Split Peak	harrisma	04/16/15 10:44
PCB-1242 Peak 5	3.56	Split Peak	harrisma	04/16/15 10:44

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 244045

Lab Sample ID: CCVIS 490-244045/2 Client Sample ID:

Date Analyzed: 04/27/15 10:11 Lab File ID: 042715hp37.002dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.55	Baseline Smoothing	harrisma	04/27/15 10:49
Tetrachloro-m-xylene	2.04	Baseline Smoothing	harrisma	04/27/15 10:49
PCB-1016 Peak 1	2.31	Baseline Smoothing	harrisma	04/27/15 10:49
PCB-1016 Peak 2	2.60	Baseline Smoothing	harrisma	04/27/15 10:49
PCB-1016 Peak 3	2.76	Baseline Smoothing	harrisma	04/27/15 10:49
PCB-1016 Peak 4	2.79	Baseline Smoothing	harrisma	04/27/15 10:49
PCB-1016 Peak 5	3.03	Baseline Smoothing	harrisma	04/27/15 10:49
PCB-1260 Peak 1	4.95	Baseline Smoothing	harrisma	04/27/15 10:49
PCB-1260 Peak 2	5.29	Baseline Smoothing	harrisma	04/27/15 10:49
PCB-1260 Peak 3	5.64	Baseline Smoothing	harrisma	04/27/15 10:49
PCB-1260 Peak 4	6.10	Baseline Smoothing	harrisma	04/27/15 10:49
PCB-1260 Peak 5	6.50	Baseline Smoothing	harrisma	04/27/15 10:49

Lab Sample ID: CCVIS 490-244045/2 Client Sample ID:

Date Analyzed: 04/27/15 10:11 Lab File ID: 042715hp37.002dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.40	Split Peak	harrisma	04/27/15 10:49
PCB-1016 Peak 2	2.74	Split Peak	harrisma	04/27/15 10:49
PCB-1016 Peak 3	2.94	Split Peak	harrisma	04/27/15 10:49
PCB-1016 Peak 4	2.97	Split Peak	harrisma	04/27/15 10:49
PCB-1016 Peak 5	3.17	Split Peak	harrisma	04/27/15 10:49

Lab Sample ID: CCV 490-244045/3 Client Sample ID:

Date Analyzed: 04/27/15 10:27 Lab File ID: 042715hp37.003dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.55	Incomplete Integration	harrisma	04/27/15 10:52

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 244045

Lab Sample ID: CCV 490-244045/5 Client Sample ID:

Date Analyzed: 04/27/15 10:58 Lab File ID: 042715hp37.005dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.15	Split Peak	harrisma	04/27/15 11:23
PCB-1242 Peak 2	3.22	Split Peak	harrisma	04/27/15 11:23
PCB-1242 Peak 3	3.33	Split Peak	harrisma	04/27/15 11:23
PCB-1242 Peak 4	3.36	Split Peak	harrisma	04/27/15 11:23
PCB-1242 Peak 5	3.56	Split Peak	harrisma	04/27/15 11:23

Lab Sample ID: LCS 490-243673/2-A Client Sample ID:

Date Analyzed: 04/27/15 17:35 Lab File ID: 042715hp37.028dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	4.94	Split Peak	harrisma	04/27/15 17:53
PCB-1260 Peak 2	5.28	Split Peak	harrisma	04/27/15 17:53
PCB-1260 Peak 3	5.63	Split Peak	harrisma	04/27/15 17:53
PCB-1260 Peak 4	6.09	Split Peak	harrisma	04/27/15 17:53
PCB-1260 Peak 5	6.50	Split Peak	harrisma	04/27/15 17:53

Lab Sample ID: LCS 490-243673/2-A Client Sample ID:

Date Analyzed: 04/27/15 17:35 Lab File ID: 042715hp37.028dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.40	Split Peak	harrisma	04/27/15 17:53
PCB-1016 Peak 2	2.74	Split Peak	harrisma	04/27/15 17:53
PCB-1016 Peak 3	2.93	Split Peak	harrisma	04/27/15 17:53
PCB-1016 Peak 4	2.97	Split Peak	harrisma	04/27/15 17:53
PCB-1016 Peak 5	3.17	Split Peak	harrisma	04/27/15 17:53

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 244045

Lab Sample ID: 490-77157-2 Client Sample ID:

Date Analyzed: 04/27/15 17:51 Lab File ID: 042715hp37.029dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.56	Baseline Smoothing	harrisma	04/27/15 18:05

Lab Sample ID: 490-77157-5 Client Sample ID: SWMW-7-GW-042315

Date Analyzed: 04/27/15 18:06 Lab File ID: 042715hp37.030dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloro-m-xylene	2.04	Incomplete Integration	harrisma	04/28/15 12:38

Lab Sample ID: 490-77157-12 Client Sample ID:

Date Analyzed: 04/27/15 19:25 Lab File ID: 042715hp37.035dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Bromo-2-nitrobenzene	1.55	Incomplete Integration	harrisma	04/28/15 09:47

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 244295

Lab Sample ID: CCVIS 490-244295/2 Client Sample ID:

Date Analyzed: 04/28/15 10:40 Lab File ID: 042815hp37.002dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.31	Baseline Smoothing	harrisma	04/28/15 11:43
PCB-1016 Peak 2	2.60	Baseline Smoothing	harrisma	04/28/15 11:43
PCB-1016 Peak 3	2.76	Baseline Smoothing	harrisma	04/28/15 11:43
PCB-1016 Peak 4	2.79	Baseline Smoothing	harrisma	04/28/15 11:43
PCB-1016 Peak 5	3.03	Baseline Smoothing	harrisma	04/28/15 11:43
PCB-1260 Peak 1	4.95	Baseline Smoothing	harrisma	04/28/15 11:43
PCB-1260 Peak 2	5.29	Baseline Smoothing	harrisma	04/28/15 11:43
PCB-1260 Peak 3	5.64	Baseline Smoothing	harrisma	04/28/15 11:43
PCB-1260 Peak 4	6.10	Baseline Smoothing	harrisma	04/28/15 11:43
PCB-1260 Peak 5	6.50	Baseline Smoothing	harrisma	04/28/15 11:43

Lab Sample ID: CCVIS 490-244295/2 Client Sample ID:

Date Analyzed: 04/28/15 10:40 Lab File ID: 042815hp37.002dat.d GC Column: RTX-50 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.40	Split Peak	harrisma	04/28/15 11:43
PCB-1016 Peak 2	2.74	Split Peak	harrisma	04/28/15 11:43
PCB-1016 Peak 3	2.94	Split Peak	harrisma	04/28/15 11:43
PCB-1016 Peak 4	2.97	Split Peak	harrisma	04/28/15 11:43
PCB-1016 Peak 5	3.17	Split Peak	harrisma	04/28/15 11:43

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Analysis Batch Number: 244295

Lab Sample ID: CCV 490-244295/3 Client Sample ID:

Date Analyzed: 04/28/15 10:55 Lab File ID: 042815hp37.003dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1254 Peak 1	4.58	Split Peak	harrisma	04/28/15 11:45
PCB-1254 Peak 2	4.72	Split Peak	harrisma	04/28/15 11:45
PCB-1254 Peak 3	5.06	Split Peak	harrisma	04/28/15 11:45
PCB-1254 Peak 4	5.28	Split Peak	harrisma	04/28/15 11:45
PCB-1254 Peak 5	5.63	Split Peak	harrisma	04/28/15 11:45

Lab Sample ID: CCV 490-244295/5 Client Sample ID:

Date Analyzed: 04/28/15 11:26 Lab File ID: 042815hp37.005dat.d GC Column: RTX-5 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	3.15	Split Peak	harrisma	04/28/15 11:51
PCB-1242 Peak 2	3.22	Split Peak	harrisma	04/28/15 11:51
PCB-1242 Peak 3	3.33	Split Peak	harrisma	04/28/15 11:51
PCB-1242 Peak 4	3.36	Split Peak	harrisma	04/28/15 11:51
PCB-1242 Peak 5	3.57	Split Peak	harrisma	04/28/15 11:51

SAMPLE SUMMARY

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
490-77157-1	SGMW-8-GW-HS-042215	Water	04/22/2015 1305	04/24/2015 0830
490-77157-2	SPMW-12-GW-HS-042215	Water	04/22/2015 1335	04/24/2015 0830
490-77157-3	MW-7-GW-HS-042215	Water	04/22/2015 1435	04/24/2015 0830
490-77157-4	MW-6-GW-HS-042215	Water	04/22/2015 1500	04/24/2015 0830
490-77157-5	SWMW-7-GW-042315	Water	04/23/2015 1000	04/24/2015 0830
490-77157-6	SWMW-7A-GW-042315	Water	04/23/2015 1105	04/24/2015 0830
490-77157-7	SWMW-8-GW-042315	Water	04/23/2015 1325	04/24/2015 0830
490-77157-8	SPRW-401-GW-042315	Water	04/23/2015 1355	04/24/2015 0830
490-77157-9	SDMW-3-GW-042315	Water	04/23/2015 1555	04/24/2015 0830
490-77157-10	SPMW-21-042315	Water	04/23/2015 1635	04/24/2015 0830
490-77157-11	SPMW-24-042315	Water	04/23/2015 1700	04/24/2015 0830
490-77157-12	EB-042315	Water	04/23/2015 1715	04/24/2015 0830
490-77157-13TB	TB-04-042315	Water	04/23/2015 0001	04/24/2015 0830

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-77157-1	**SGMW-8-GW-HS-042215**					
Tetrachloroethene		2.72		1.00	ug/L	8260B
Trichloroethene		2.13		1.00	ug/L	8260B
490-77157-2	**SPMW-12-GW-HS-042215**					
cis-1,2-Dichloroethene		17.9		1.00	ug/L	8260B
Tetrachloroethene		1370		20.0	ug/L	8260B
trans-1,2-Dichloroethene		0.629	J	1.00	ug/L	8260B
Trichloroethene		1400		20.0	ug/L	8260B
490-77157-3	**MW-7-GW-HS-042215**					
cis-1,2-Dichloroethene		0.687	J	1.00	ug/L	8260B
Trichloroethene		4.86		1.00	ug/L	8260B
490-77157-4	**MW-6-GW-HS-042215**					
cis-1,2-Dichloroethene		0.822	J	1.00	ug/L	8260B
Trichloroethene		15.9		1.00	ug/L	8260B
490-77157-5	**SWMW-7-GW-042315**					
cis-1,2-Dichloroethene		0.260	J	1.00	ug/L	8260B
Tetrachloroethene		4.76		1.00	ug/L	8260B
Trichloroethene		0.647	J	1.00	ug/L	8260B
PCB-1248		0.888		0.488	ug/L	8082A
490-77157-6	**SWMW-7A-GW-042315**					
cis-1,2-Dichloroethene		17.6		1.00	ug/L	8260B
1,1-Dichloroethene		0.396	J	1.00	ug/L	8260B
Tetrachloroethene		232		5.00	ug/L	8260B
Trichloroethene		83.2		1.00	ug/L	8260B
Vinyl chloride		0.895	J	1.00	ug/L	8260B
PCB-1248		9.77		4.90	ug/L	8082A
490-77157-7	**SWMW-8-GW-042315**					
Tetrachloroethene		49.9		1.00	ug/L	8260B
Trichloroethene		0.852	J	1.00	ug/L	8260B
PCB-1248		3.52		0.481	ug/L	8082A

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-77157-8	**SPRW-401-GW-042315**					
cis-1,2-Dichloroethene		65.7		1.00	ug/L	8260B
Tetrachloroethene		32.3		1.00	ug/L	8260B
Trichloroethene		17.6		1.00	ug/L	8260B
Vinyl chloride		0.723	J	1.00	ug/L	8260B
490-77157-9	**SDMW-3-GW-042315**					
cis-1,2-Dichloroethene		2.83		1.00	ug/L	8260B
1,1-Dichloroethene		2.40		1.00	ug/L	8260B
Tetrachloroethene		531		5.00	ug/L	8260B
Trichloroethene		393		5.00	ug/L	8260B
PCB-1248		0.750		0.490	ug/L	8082A
490-77157-11	**SPMW-24-042315**					
Tetrachloroethene		2.32		1.00	ug/L	8260B
Trichloroethene		2.02		1.00	ug/L	8260B

METHOD SUMMARY

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL NSH	SW846 8260B	
Purge and Trap	TAL NSH		SW846 5030B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL NSH	SW846 8082A	
Liquid-Liquid Extraction (Separatory Funnel)	TAL NSH		SW846 3510C

Lab References:

TAL NSH = TestAmerica Nashville

Method References:

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

METHOD / ANALYST SUMMARY

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Method	Analyst	Analyst ID
SW846 8260B	Khanphomee, Anukool 1	AK1
SW846 8260B	Larsen, Eric	EML
SW846 8082A	Harris, Matt	MGH

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **SGMW-8-GW-HS-042215**

Lab Sample ID: 490-77157-1 Date Sampled: 04/22/2015 1305
Client Matrix: Water Date Received: 04/24/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-244179	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	042715-29.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 0313			Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 0313				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	2.72		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	2.13		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **SPMW-12-GW-HS-042215**

Lab Sample ID: 490-77157-2 Date Sampled: 04/22/2015 1335
Client Matrix: Water Date Received: 04/24/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-244179	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	042715-30.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 0340			Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 0340				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	17.9		0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
trans-1,2-Dichloroethene	0.629	J	0.230	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **SPMW-12-GW-HS-042215**

Lab Sample ID: 490-77157-2 Date Sampled: 04/22/2015 1335
Client Matrix: Water Date Received: 04/24/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-244280	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	042815-25.D
Dilution:	20			Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 2059	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 2059				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Tetrachloroethene	1370		2.80	20.0
Trichloroethene	1400		4.00	20.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **MW-7-GW-HS-042215**

Lab Sample ID: 490-77157-3 Date Sampled: 04/22/2015 1435
Client Matrix: Water Date Received: 04/24/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-244280	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	042815-17.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 1728			Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 1728				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	0.687	J	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	4.86		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **MW-6-GW-HS-042215**

Lab Sample ID: 490-77157-4 Date Sampled: 04/22/2015 1500
Client Matrix: Water Date Received: 04/24/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-244280	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	042815-18.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 1754			Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 1754				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	0.822	J	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	15.9		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **SWMW-7-GW-042315**

Lab Sample ID: 490-77157-5 Date Sampled: 04/23/2015 1000
Client Matrix: Water Date Received: 04/24/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-244280	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	042815-19.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 1821			Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 1821				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	0.260	J	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	4.76		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	0.647	J	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
Toluene-d8 (Surr)	107		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **SWMW-7A-GW-042315**

Lab Sample ID: 490-77157-6 Date Sampled: 04/23/2015 1105
Client Matrix: Water Date Received: 04/24/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-244179	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	042715-34.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 0525			Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 0525				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	17.6		0.210	1.00
1,1-Dichloroethene	0.396	J	0.250	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	83.2		0.200	1.00
Vinyl chloride	0.895	J	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **SWMW-7A-GW-042315**

Lab Sample ID: 490-77157-6 Date Sampled: 04/23/2015 1105
Client Matrix: Water Date Received: 04/24/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-244280	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	042815-23.D
Dilution:	5.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 2006	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 2006				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Tetrachloroethene	232		0.700	5.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **SWMW-8-GW-042315**

Lab Sample ID: 490-77157-7 Date Sampled: 04/23/2015 1325
Client Matrix: Water Date Received: 04/24/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-244280	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	042815-20.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 1847			Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 1847				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	49.9		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	0.852	J	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	106		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **SPRW-401-GW-042315**

Lab Sample ID: 490-77157-8 Date Sampled: 04/23/2015 1355
Client Matrix: Water Date Received: 04/24/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-244179	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	042715-36.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 0618			Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 0618				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	65.7		0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	32.3		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	17.6		0.200	1.00
Vinyl chloride	0.723	J	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **SDMW-3-GW-042315**

Lab Sample ID: 490-77157-9 Date Sampled: 04/23/2015 1555
Client Matrix: Water Date Received: 04/24/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-244179	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	042715-38.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 0710			Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 0710				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	2.83		0.210	1.00
1,1-Dichloroethene	2.40		0.250	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **SDMW-3-GW-042315**

Lab Sample ID: 490-77157-9 Date Sampled: 04/23/2015 1555
Client Matrix: Water Date Received: 04/24/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-244280	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	042815-24.D
Dilution:	5.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 2032	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 2032				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Tetrachloroethene	531		0.700	5.00
Trichloroethene	393		1.00	5.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	107		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **SPMW-21-042315**

Lab Sample ID: 490-77157-10 Date Sampled: 04/23/2015 1635
Client Matrix: Water Date Received: 04/24/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-244280	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	042815-21.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 1913			Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 1913				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **SPMW-24-042315**

Lab Sample ID: 490-77157-11 Date Sampled: 04/23/2015 1700
Client Matrix: Water Date Received: 04/24/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-244280	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	042815-22.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 1940			Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 1940				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	2.32		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	2.02		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **EB-042315**

Lab Sample ID: 490-77157-12 Date Sampled: 04/23/2015 1715
Client Matrix: Water Date Received: 04/24/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-244179	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	042715-26.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 0154			Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 0154				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **TB-04-042315**

Lab Sample ID: 490-77157-13TB Date Sampled: 04/23/2015 0001
Client Matrix: Water Date Received: 04/24/2015 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-244179	Instrument ID:	HP32
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	042715-25.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 0128			Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 0128				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **SPMW-12-GW-HS-042215**

Lab Sample ID: 490-77157-2 Date Sampled: 04/22/2015 1335
Client Matrix: Water Date Received: 04/24/2015 0830

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-244045	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-243673	Initial Weight/Volume:	1055 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	04/27/2015 1751			Injection Volume:	1 uL
Prep Date:	04/24/2015 1257			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	0.474	U	0.0607	0.474
PCB-1248	0.474	U	0.0654	0.474
PCB-1254	0.474	U	0.00664	0.474

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	71		10 - 150
Tetrachloro-m-xylene	84		10 - 150

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **SWMW-7-GW-042315**

Lab Sample ID: 490-77157-5 Date Sampled: 04/23/2015 1000
Client Matrix: Water Date Received: 04/24/2015 0830

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-244045	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-243673	Initial Weight/Volume:	1025 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	04/27/2015 1806			Injection Volume:	1 uL
Prep Date:	04/24/2015 1257			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	0.488	U	0.0624	0.488
PCB-1248	0.888		0.0673	0.488
PCB-1254	0.488	U	0.00683	0.488

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	73		10 - 150
Tetrachloro-m-xylene	88		10 - 150

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **SWMW-7A-GW-042315**

Lab Sample ID: 490-77157-6 Date Sampled: 04/23/2015 1105
Client Matrix: Water Date Received: 04/24/2015 0830

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-244295	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-243673	Initial Weight/Volume:	1020 mL
Dilution:	10			Final Weight/Volume:	5 mL
Analysis Date:	04/28/2015 1213			Injection Volume:	1 uL
Prep Date:	04/24/2015 1257			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	4.90	U	0.627	4.90
PCB-1248	9.77		0.676	4.90
PCB-1254	4.90	U	0.0686	4.90

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	98		10 - 150
Tetrachloro-m-xylene	97		10 - 150

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **SWMW-8-GW-042315**

Lab Sample ID: 490-77157-7 Date Sampled: 04/23/2015 1325
Client Matrix: Water Date Received: 04/24/2015 0830

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-244045	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-243673	Initial Weight/Volume:	1040 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	04/27/2015 1838			Injection Volume:	1 uL
Prep Date:	04/24/2015 1257			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	0.481	U	0.0615	0.481
PCB-1248	3.52		0.0663	0.481
PCB-1254	0.481	U	0.00673	0.481

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	81		10 - 150
Tetrachloro-m-xylene	81		10 - 150

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **SPRW-401-GW-042315**

Lab Sample ID: 490-77157-8 Date Sampled: 04/23/2015 1355
Client Matrix: Water Date Received: 04/24/2015 0830

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-244295	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-243673	Initial Weight/Volume:	1045 mL
Dilution:	5.0			Final Weight/Volume:	5 mL
Analysis Date:	04/28/2015 1229			Injection Volume:	1 uL
Prep Date:	04/24/2015 1257			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	2.39	U	0.306	2.39
PCB-1248	2.39	U	0.330	2.39
PCB-1254	2.39	U	0.0335	2.39

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	98		10 - 150
Tetrachloro-m-xylene	81		10 - 150

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **SDMW-3-GW-042315**

Lab Sample ID: 490-77157-9 Date Sampled: 04/23/2015 1555
Client Matrix: Water Date Received: 04/24/2015 0830

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-244045	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-243673	Initial Weight/Volume:	1020 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	04/27/2015 1909			Injection Volume:	1 uL
Prep Date:	04/24/2015 1257			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	0.490	U	0.0627	0.490
PCB-1248	0.750		0.0676	0.490
PCB-1254	0.490	U	0.00686	0.490

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	75		10 - 150
Tetrachloro-m-xylene	89		10 - 150

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Client Sample ID: **EB-042315**

Lab Sample ID: 490-77157-12 Date Sampled: 04/23/2015 1715
Client Matrix: Water Date Received: 04/24/2015 0830

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	490-244045	Instrument ID:	HP37
Prep Method:	3510C	Prep Batch:	490-243673	Initial Weight/Volume:	1025 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	04/27/2015 1925			Injection Volume:	1 uL
Prep Date:	04/24/2015 1257			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1242	0.488	U	0.0624	0.488
PCB-1248	0.488	U	0.0673	0.488
PCB-1254	0.488	U	0.00683	0.488

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	79		10 - 150
Tetrachloro-m-xylene	87		10 - 150

Client: CH2M Hill, Inc.

Job Number: 490-77157-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
490-77157-1	SGMW-8-GW-HS-042215	100	97	97	96
490-77157-2	SPMW-12-GW-HS-042215	99	99	98	101
490-77157-2 DL	SPMW-12-GW-HS-042215 DL	100	99	105	97
490-77157-3	MW-7-GW-HS-042215	100	98	105	97
490-77157-4	MW-6-GW-HS-042215	100	96	105	98
490-77157-5	SWMW-7-GW-042315	101	97	107	100
490-77157-6	SWMW-7A-GW-042315	99	98	99	98
490-77157-6 DL	SWMW-7A-GW-042315 DL	98	99	104	97
490-77157-7	SWMW-8-GW-042315	100	98	106	97
490-77157-8	SPRW-401-GW-042315	102	99	99	97
490-77157-9	SDMW-3-GW-042315	98	99	101	99
490-77157-9 DL	SDMW-3-GW-042315 DL	99	99	107	95
490-77157-10	SPMW-21-042315	100	97	104	95
490-77157-11	SPMW-24-042315	101	99	105	97
490-77157-12	EB-042315	99	98	102	100
490-77157-13	TB-04-042315	102	101	102	101
MB 490-244179/8		100	100	102	102
MB 490-244280/7		100	97	102	101
LCS 490-244179/4		99	96	99	96
LCS 490-244280/3		98	94	101	97
LCSD 490-244179/5		99	95	99	99
LCSD 490-244280/4		98	93	99	95

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Client: CH2M Hill, Inc.

Job Number: 490-77157-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
490-77157-1 MS	SGMW-8-GW-HS-042 215 MS	98	94	102	97
490-77157-1 MSD	SGMW-8-GW-HS-042 215 MSD	99	94	101	96

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Client: CH2M Hill, Inc.

Job Number: 490-77157-1

Surrogate Recovery Report

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCX2 %Rec	DCB2 %Rec
490-77157-2	SPMW-12-GW-HS-042215	84	71
490-77157-5	SWMW-7-GW-042315	88	73
490-77157-6	SWMW-7A-GW-042315	97	98
490-77157-7	SWMW-8-GW-042315	81	81
490-77157-8	SPRW-401-GW-042315	81	98
490-77157-9	SDMW-3-GW-042315	89	75
490-77157-12	EB-042315	87	79
MB 490-243673/1-A		91	100
LCS 490-243673/2-A		84	93

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	10-150
DCB = DCB Decachlorobiphenyl (Surr)	10-150

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Method Blank - Batch: 490-244179

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-244179/8	Analysis Batch:	490-244179	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	042715-23.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 0035	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 0035				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
Dibromofluoromethane (Surr)	100	70 - 130
1,2-Dichloroethane-d4 (Surr)	100	70 - 130
Toluene-d8 (Surr)	102	70 - 130

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-244179

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-244179/4	Analysis Batch:	490-244179	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	042715-19.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/27/2015 2249	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/27/2015 2249				10 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-244179/5	Analysis Batch:	490-244179	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	042715-20.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/27/2015 2316	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/27/2015 2316				10 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
cis-1,2-Dichloroethene	97	95	76 - 125	1	17		
1,1-Dichloroethene	99	99	79 - 124	0	17		
Tetrachloroethene	101	101	80 - 126	0	16		
trans-1,2-Dichloroethene	100	99	79 - 126	2	16		
Trichloroethene	101	100	80 - 123	1	17		
Vinyl chloride	107	106	68 - 120	1	17		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	96	99	70 - 130
Dibromofluoromethane (Surr)	99	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	96	95	70 - 130
Toluene-d8 (Surr)	99	99	70 - 130

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-244179

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-244179/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 490-244179/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/27/2015 2249			Analysis Date:	04/27/2015 2316
Prep Date:	04/27/2015 2249			Prep Date:	04/27/2015 2316
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
cis-1,2-Dichloroethene	50.0	50.0	48.26	47.59
1,1-Dichloroethene	50.0	50.0	49.59	49.35
Tetrachloroethene	50.0	50.0	50.54	50.65
trans-1,2-Dichloroethene	50.0	50.0	50.07	49.29
Trichloroethene	50.0	50.0	50.29	50.00
Vinyl chloride	50.0	50.0	53.36	53.01

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-244179

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-77157-1	Analysis Batch:	490-244179	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	042715-41.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 0930			Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 0930				10 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-77157-1	Analysis Batch:	490-244179	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	042715-42.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 0957			Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 0957				10 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
cis-1,2-Dichloroethene	102	101	68 - 138	0	17		
1,1-Dichloroethene	109	110	70 - 142	2	17		
Tetrachloroethene	114	113	72 - 145	1	16		
trans-1,2-Dichloroethene	107	105	66 - 143	2	16		
Trichloroethene	105	107	73 - 144	1	17		
Vinyl chloride	116	117	56 - 129	1	17		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	97	96	70 - 130
Dibromofluoromethane (Surr)	98	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	94	94	70 - 130
Toluene-d8 (Surr)	102	101	70 - 130

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-244179

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-77157-1	Units:	ug/L	MSD Lab Sample ID:	490-77157-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/28/2015 0930			Analysis Date:	04/28/2015 0957
Prep Date:	04/28/2015 0930			Prep Date:	04/28/2015 0957
Leach Date:	N/A			Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS	MSD
Analyte	Result/Qual		Amount	Amount	Result/Qual	Result/Qual
cis-1,2-Dichloroethene	1.00	U	50.0	50.0	50.81	50.60
1,1-Dichloroethene	1.00	U	50.0	50.0	54.31	55.17
Tetrachloroethene	2.72		50.0	50.0	59.84	59.17
trans-1,2-Dichloroethene	1.00	U	50.0	50.0	53.44	52.63
Trichloroethene	2.13		50.0	50.0	54.87	55.55
Vinyl chloride	1.00	U	50.0	50.0	58.00	58.58

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Method Blank - Batch: 490-244280

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-244280/7	Analysis Batch:	490-244280	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	042815-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 1304	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 1304				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
1,1-Dichloroethene	1.00	U	0.250	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
Dibromofluoromethane (Surr)	100	70 - 130
1,2-Dichloroethane-d4 (Surr)	97	70 - 130
Toluene-d8 (Surr)	102	70 - 130

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-244280

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-244280/3	Analysis Batch:	490-244280	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	042815-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 1119	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 1119				10 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-244280/4	Analysis Batch:	490-244280	Instrument ID:	HP32
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	042815-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	04/28/2015 1145	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	04/28/2015 1145				10 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
cis-1,2-Dichloroethene	96	93	76 - 125	3	17		
1,1-Dichloroethene	98	95	79 - 124	3	17		
Tetrachloroethene	103	100	80 - 126	2	16		
trans-1,2-Dichloroethene	98	95	79 - 126	4	16		
Trichloroethene	100	96	80 - 123	4	17		
Vinyl chloride	104	100	68 - 120	4	17		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	97	95	70 - 130
Dibromofluoromethane (Surr)	98	98	70 - 130
1,2-Dichloroethane-d4 (Surr)	94	93	70 - 130
Toluene-d8 (Surr)	101	99	70 - 130

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-244280

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-244280/3	Units:	ug/L	LCSD Lab Sample ID:	LCSD 490-244280/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/28/2015 1119			Analysis Date:	04/28/2015 1145
Prep Date:	04/28/2015 1119			Prep Date:	04/28/2015 1145
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
cis-1,2-Dichloroethene	50.0	50.0	48.04	46.72
1,1-Dichloroethene	50.0	50.0	49.00	47.63
Tetrachloroethene	50.0	50.0	51.33	50.19
trans-1,2-Dichloroethene	50.0	50.0	49.06	47.32
Trichloroethene	50.0	50.0	50.11	48.24
Vinyl chloride	50.0	50.0	52.09	50.22

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Method Blank - Batch: 490-243673

Method: 8082A
Preparation: 3510C

Lab Sample ID:	MB 490-243673/1-A	Analysis Batch:	490-244045	Instrument ID:	HP37
Client Matrix:	Water	Prep Batch:	490-243673	Lab File ID:	042715hp37.027dat.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	04/27/2015 1719	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/24/2015 1257			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
PCB-1242	0.500	U	0.0640	0.500
PCB-1248	0.500	U	0.0690	0.500
PCB-1254	0.500	U	0.00700	0.500

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	100	10 - 150
Tetrachloro-m-xylene	91	10 - 150

Lab Control Sample - Batch: 490-243673

Method: 8082A
Preparation: 3510C

Lab Sample ID:	LCS 490-243673/2-A	Analysis Batch:	490-244045	Instrument ID:	HP37
Client Matrix:	Water	Prep Batch:	490-243673	Lab File ID:	042715hp37.028dat.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	04/27/2015 1735	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/24/2015 1257			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	5.00	4.273	85	23 - 139	
PCB-1260	5.00	4.205	84	36 - 144	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl (Surr)	93	10 - 150
Tetrachloro-m-xylene	84	10 - 150

DATA REPORTING QUALIFIERS

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	J	Indicates an estimated value.
GC Semi VOA		
	U	Analyzed for but not detected.

Client: CH2M Hill, Inc. Job Number: 490-77157-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-244179					
LCS 490-244179/4	Lab Control Sample	T	Water	8260B	
LCSD 490-244179/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 490-244179/8	Method Blank	T	Water	8260B	
490-77157-1	SGMW-8-GW-HS-042215	T	Water	8260B	
490-77157-1MS	Matrix Spike	T	Water	8260B	
490-77157-1MSD	Matrix Spike Duplicate	T	Water	8260B	
490-77157-2	SPMW-12-GW-HS-042215	T	Water	8260B	
490-77157-6	SWMW-7A-GW-042315	T	Water	8260B	
490-77157-8	SPRW-401-GW-042315	T	Water	8260B	
490-77157-9	SDMW-3-GW-042315	T	Water	8260B	
490-77157-12	EB-042315	T	Water	8260B	
490-77157-13TB	TB-04-042315	T	Water	8260B	
Analysis Batch:490-244280					
LCS 490-244280/3	Lab Control Sample	T	Water	8260B	
LCSD 490-244280/4	Lab Control Sample Duplicate	T	Water	8260B	
MB 490-244280/7	Method Blank	T	Water	8260B	
490-77157-2DL	SPMW-12-GW-HS-042215	T	Water	8260B	
490-77157-3	MW-7-GW-HS-042215	T	Water	8260B	
490-77157-4	MW-6-GW-HS-042215	T	Water	8260B	
490-77157-5	SWMW-7-GW-042315	T	Water	8260B	
490-77157-6DL	SWMW-7A-GW-042315	T	Water	8260B	
490-77157-7	SWMW-8-GW-042315	T	Water	8260B	
490-77157-9DL	SDMW-3-GW-042315	T	Water	8260B	
490-77157-10	SPMW-21-042315	T	Water	8260B	
490-77157-11	SPMW-24-042315	T	Water	8260B	

Report Basis
T = Total

Client: CH2M Hill, Inc. Job Number: 490-77157-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 490-243673					
LCS 490-243673/2-A	Lab Control Sample	T	Water	3510C	
MB 490-243673/1-A	Method Blank	T	Water	3510C	
490-77157-2	SPMW-12-GW-HS-042215	T	Water	3510C	
490-77157-5	SWMW-7-GW-042315	T	Water	3510C	
490-77157-6	SWMW-7A-GW-042315	T	Water	3510C	
490-77157-7	SWMW-8-GW-042315	T	Water	3510C	
490-77157-8	SPRW-401-GW-042315	T	Water	3510C	
490-77157-9	SDMW-3-GW-042315	T	Water	3510C	
490-77157-12	EB-042315	T	Water	3510C	
Analysis Batch:490-244045					
LCS 490-243673/2-A	Lab Control Sample	T	Water	8082A	490-243673
MB 490-243673/1-A	Method Blank	T	Water	8082A	490-243673
490-77157-2	SPMW-12-GW-HS-042215	T	Water	8082A	490-243673
490-77157-5	SWMW-7-GW-042315	T	Water	8082A	490-243673
490-77157-7	SWMW-8-GW-042315	T	Water	8082A	490-243673
490-77157-9	SDMW-3-GW-042315	T	Water	8082A	490-243673
490-77157-12	EB-042315	T	Water	8082A	490-243673
Analysis Batch:490-244295					
490-77157-6	SWMW-7A-GW-042315	T	Water	8082A	490-243673
490-77157-8	SPRW-401-GW-042315	T	Water	8082A	490-243673

Report Basis
T = Total

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Laboratory Chronicle

Lab ID: 490-77157-1 **Client ID: SGMW-8-GW-HS-042215**

Sample Date/Time: 04/22/2015 13:05 Received Date/Time: 04/24/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-77157-A-1		490-244179		04/28/2015 03:13	1	TAL NSH	EML
A:8260B	490-77157-A-1		490-244179		04/28/2015 03:13	1	TAL NSH	EML

Lab ID: 490-77157-1 MS **Client ID: SGMW-8-GW-HS-042215**

Sample Date/Time: 04/22/2015 13:05 Received Date/Time: 04/24/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-77157-B-1 MS		490-244179		04/28/2015 09:30	1	TAL NSH	EML
A:8260B	490-77157-B-1 MS		490-244179		04/28/2015 09:30	1	TAL NSH	EML

Lab ID: 490-77157-1 MSD **Client ID: SGMW-8-GW-HS-042215**

Sample Date/Time: 04/22/2015 13:05 Received Date/Time: 04/24/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-77157-C-1 MSD		490-244179		04/28/2015 09:57	1	TAL NSH	EML
A:8260B	490-77157-C-1 MSD		490-244179		04/28/2015 09:57	1	TAL NSH	EML

Lab ID: 490-77157-2 **Client ID: SPMW-12-GW-HS-042215**

Sample Date/Time: 04/22/2015 13:35 Received Date/Time: 04/24/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-77157-A-2		490-244179		04/28/2015 03:40	1	TAL NSH	EML
A:8260B	490-77157-A-2		490-244179		04/28/2015 03:40	1	TAL NSH	EML
P:5030B	490-77157-B-2	DL	490-244280		04/28/2015 20:59	20	TAL NSH	AK1
A:8260B	490-77157-B-2	DL	490-244280		04/28/2015 20:59	20	TAL NSH	AK1
P:3510C	490-77157-E-2-A		490-244045	490-243673	04/24/2015 12:57	1	TAL NSH	ET
A:8082A	490-77157-E-2-A		490-244045	490-243673	04/27/2015 17:51	1	TAL NSH	MGH

Lab ID: 490-77157-3 **Client ID: MW-7-GW-HS-042215**

Sample Date/Time: 04/22/2015 14:35 Received Date/Time: 04/24/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-77157-B-3		490-244280		04/28/2015 17:28	1	TAL NSH	AK1
A:8260B	490-77157-B-3		490-244280		04/28/2015 17:28	1	TAL NSH	AK1

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Laboratory Chronicle

Lab ID: 490-77157-4 **Client ID:** MW-6-GW-HS-042215

Sample Date/Time: 04/22/2015 15:00 Received Date/Time: 04/24/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-77157-B-4		490-244280		04/28/2015 17:54	1	TAL NSH	AK1
A:8260B	490-77157-B-4		490-244280		04/28/2015 17:54	1	TAL NSH	AK1

Lab ID: 490-77157-5 **Client ID:** SWMW-7-GW-042315

Sample Date/Time: 04/23/2015 10:00 Received Date/Time: 04/24/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-77157-B-5		490-244280		04/28/2015 18:21	1	TAL NSH	AK1
A:8260B	490-77157-B-5		490-244280		04/28/2015 18:21	1	TAL NSH	AK1
P:3510C	490-77157-D-5-A		490-244045	490-243673	04/24/2015 12:57	1	TAL NSH	ET
A:8082A	490-77157-D-5-A		490-244045	490-243673	04/27/2015 18:06	1	TAL NSH	MGH

Lab ID: 490-77157-6 **Client ID:** SWMW-7A-GW-042315

Sample Date/Time: 04/23/2015 11:05 Received Date/Time: 04/24/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-77157-A-6		490-244179		04/28/2015 05:25	1	TAL NSH	EML
A:8260B	490-77157-A-6		490-244179		04/28/2015 05:25	1	TAL NSH	EML
P:5030B	490-77157-B-6	DL	490-244280		04/28/2015 20:06	5	TAL NSH	AK1
A:8260B	490-77157-B-6	DL	490-244280		04/28/2015 20:06	5	TAL NSH	AK1
P:3510C	490-77157-D-6-A		490-244295	490-243673	04/24/2015 12:57	10	TAL NSH	ET
A:8082A	490-77157-D-6-A		490-244295	490-243673	04/28/2015 12:13	10	TAL NSH	MGH

Lab ID: 490-77157-7 **Client ID:** SWMW-8-GW-042315

Sample Date/Time: 04/23/2015 13:25 Received Date/Time: 04/24/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-77157-B-7		490-244280		04/28/2015 18:47	1	TAL NSH	AK1
A:8260B	490-77157-B-7		490-244280		04/28/2015 18:47	1	TAL NSH	AK1
P:3510C	490-77157-E-7-A		490-244045	490-243673	04/24/2015 12:57	1	TAL NSH	ET
A:8082A	490-77157-E-7-A		490-244045	490-243673	04/27/2015 18:38	1	TAL NSH	MGH

Lab ID: 490-77157-8 **Client ID:** SPRW-401-GW-042315

Sample Date/Time: 04/23/2015 13:55 Received Date/Time: 04/24/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-77157-A-8		490-244179		04/28/2015 06:18	1	TAL NSH	EML
A:8260B	490-77157-A-8		490-244179		04/28/2015 06:18	1	TAL NSH	EML
P:3510C	490-77157-E-8-A		490-244295	490-243673	04/24/2015 12:57	5	TAL NSH	ET
A:8082A	490-77157-E-8-A		490-244295	490-243673	04/28/2015 12:29	5	TAL NSH	MGH

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Laboratory Chronicle

Lab ID: 490-77157-9 **Client ID: SDMW-3-GW-042315**

Sample Date/Time: 04/23/2015 15:55 Received Date/Time: 04/24/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-77157-A-9		490-244179		04/28/2015 07:10	1	TAL NSH	EML
A:8260B	490-77157-A-9		490-244179		04/28/2015 07:10	1	TAL NSH	EML
P:5030B	490-77157-B-9	DL	490-244280		04/28/2015 20:32	5	TAL NSH	AK1
A:8260B	490-77157-B-9	DL	490-244280		04/28/2015 20:32	5	TAL NSH	AK1
P:3510C	490-77157-E-9-A		490-244045	490-243673	04/24/2015 12:57	1	TAL NSH	ET
A:8082A	490-77157-E-9-A		490-244045	490-243673	04/27/2015 19:09	1	TAL NSH	MGH

Lab ID: 490-77157-10 **Client ID: SPMW-21-042315**

Sample Date/Time: 04/23/2015 16:35 Received Date/Time: 04/24/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-77157-B-10		490-244280		04/28/2015 19:13	1	TAL NSH	AK1
A:8260B	490-77157-B-10		490-244280		04/28/2015 19:13	1	TAL NSH	AK1

Lab ID: 490-77157-11 **Client ID: SPMW-24-042315**

Sample Date/Time: 04/23/2015 17:00 Received Date/Time: 04/24/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-77157-B-11		490-244280		04/28/2015 19:40	1	TAL NSH	AK1
A:8260B	490-77157-B-11		490-244280		04/28/2015 19:40	1	TAL NSH	AK1

Lab ID: 490-77157-12 **Client ID: EB-042315**

Sample Date/Time: 04/23/2015 17:15 Received Date/Time: 04/24/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-77157-A-12		490-244179		04/28/2015 01:54	1	TAL NSH	EML
A:8260B	490-77157-A-12		490-244179		04/28/2015 01:54	1	TAL NSH	EML
P:3510C	490-77157-E-12-A		490-244045	490-243673	04/24/2015 12:57	1	TAL NSH	ET
A:8082A	490-77157-E-12-A		490-244045	490-243673	04/27/2015 19:25	1	TAL NSH	MGH

Lab ID: 490-77157-13 **Client ID: TB-04-042315**

Sample Date/Time: 04/23/2015 00:01 Received Date/Time: 04/24/2015 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-77157-A-13		490-244179		04/28/2015 01:28	1	TAL NSH	EML
A:8260B	490-77157-A-13		490-244179		04/28/2015 01:28	1	TAL NSH	EML

Client: CH2M Hill, Inc. Job Number: 490-77157-1

Laboratory Chronicle

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 490-244179/8		490-244179		04/28/2015 00:35	1	TAL NSH	EML
A:8260B	MB 490-244179/8		490-244179		04/28/2015 00:35	1	TAL NSH	EML
P:5030B	MB 490-244280/7		490-244280		04/28/2015 13:04	1	TAL NSH	AK1
A:8260B	MB 490-244280/7		490-244280		04/28/2015 13:04	1	TAL NSH	AK1
P:3510C	MB 490-243673/1-A		490-244045	490-243673	04/24/2015 12:57	1	TAL NSH	ET
A:8082A	MB 490-243673/1-A		490-244045	490-243673	04/27/2015 17:19	1	TAL NSH	MGH

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 490-244179/4		490-244179		04/27/2015 22:49	1	TAL NSH	EML
A:8260B	LCS 490-244179/4		490-244179		04/27/2015 22:49	1	TAL NSH	EML
P:5030B	LCS 490-244280/3		490-244280		04/28/2015 11:19	1	TAL NSH	AK1
A:8260B	LCS 490-244280/3		490-244280		04/28/2015 11:19	1	TAL NSH	AK1
P:3510C	LCS 490-243673/2-A		490-244045	490-243673	04/24/2015 12:57	1	TAL NSH	ET
A:8082A	LCS 490-243673/2-A		490-244045	490-243673	04/27/2015 17:35	1	TAL NSH	MGH

Lab ID: LCSD **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 490-244179/5		490-244179		04/27/2015 23:16	1	TAL NSH	EML
A:8260B	LCSD 490-244179/5		490-244179		04/27/2015 23:16	1	TAL NSH	EML
P:5030B	LCSD 490-244280/4		490-244280		04/28/2015 11:45	1	TAL NSH	AK1
A:8260B	LCSD 490-244280/4		490-244280		04/28/2015 11:45	1	TAL NSH	AK1

Lab References:
TAL NSH = TestAmerica Nashville

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
OP_H2SO4_00013	07/11/18	Macron, Lot 0000053267			(Purchased Reagent)		Sulfuric acid	51 % by Wt
OP_Hexane_00057	08/13/18	Macron, Lot 0000078259			(Purchased Reagent)		Hexane	0 mg/mL
OP_MeCl2_00044	03/22/16	J.T. Baker, Lot 0000100523			(Purchased Reagent)		Methylene Chloride	0 %
OP_NaSO4_00035	10/03/18	J.T. Baker, Lot 0000088217			(Purchased Reagent)		Stock Chemical	0 %
OP_PCB_SPK_00028	10/08/15	04/08/15	ACETONE, Lot OP_ACETONE_CY_00016	200 mL	PCB_1660 _VER_00010	1 mL	PCB-1016	5 ug/mL
							PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
.PCB_1660 _VER_00010	06/30/19	restek, Lot A094336			(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
OP_PPCB_SUR_00032	09/30/15	03/30/15	ACETONE, Lot OP_acetone_CY_00010	1000 mL	PEST_SUR_00024	2.5 mL	DCB Decachlorobiphenyl (Surr)	0.5 ug/mL
							Tetrachloro-m-xylene	0.5 ug/mL
.PEST_SUR_00024	11/30/20	Restek, Lot A0105135			(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
PCB_1248_IMD_00013	09/23/15	03/23/15	Hexane, Lot OP_HEXANE_00061	10 mL	PCB_1248_00008	100 uL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
.PCB_1248_00008	04/30/19	restek, Lot A092864			(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
PCB_1248_IMD_00013	09/23/15	03/23/15	Hexane, Lot OP_HEXANE_00061	10 mL	PCB_1248_00008	100 uL	PCB-1248	10 ug/mL
.PCB_1248_00008	04/30/19		restek, Lot A092864		(Purchased Reagent)		PCB-1248	1000 ug/mL
PCB_1660_IMD_00037	09/23/15	03/23/15	Hexane, Lot OP_HEXANE_00061	10 mL	PCB_1660_00006	100 uL	1260 Res 1	10 ug/mL
							1260 Res 2	10 ug/mL
							1260 Res 3	10 ug/mL
							PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
					PEST_SUR_00022	50 uL	DCB Decachlorobiphenyl (Surr)	1 ug/mL
							Tetrachloro-m-xylene	1 ug/mL
.PCB_1660_00006	06/30/19		restek, Lot A094177		(Purchased Reagent)		1260 Res 1	1000 ug/mL
							1260 Res 2	1000 ug/mL
							1260 Res 3	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.PEST_SUR_00022	11/30/20		Restek, Lot A0105135		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
PCB_1660_IMD_00037	09/23/15	03/23/15	Hexane, Lot OP_HEXANE_00061	10 mL	PCB_1660_00006	100 uL	PCB-1016	10 ug/mL
							PCB-1260	10 ug/mL
.PCB_1660_00006	06/30/19		restek, Lot A094177		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
PCB_1660V_IMD_00011	07/09/15	01/09/15	Hexane, Lot OP_HEXANE_00059	10 mL	PCB_1660 _VER_00009	100 uL	PCB-1016	10 ug/mL
							PCB-1260	10 ug/mL
.PCB_1660 _VER_00009	06/30/19		restek, Lot A094336		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
PCB_2154_IMD_00002	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1221_00004	100 uL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1221 Peak 3	10 ug/mL
					PCB_1254_00007	100 uL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
.PCB_1221_00004	12/31/18		restek, Lot A090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
.PCB_1254_00007	02/28/19		restek, Lot A092005		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
PCB_2154_IMD_00002	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1221_00004	100 uL	PCB-1221	10 ug/mL
					PCB_1254_00007	100 uL	PCB-1254	10 ug/mL
.PCB_1221_00004	12/31/18		restek, Lot A090667		(Purchased Reagent)		PCB-1221	1000 ug/mL
.PCB_1254_00007	02/28/19		restek, Lot A092005		(Purchased Reagent)		PCB-1254	1000 ug/mL
PCB_3262_IMD_00004	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1232_00004	100 uL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
					PCB_1262_00005	100 uL	PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
.PCB_1232_00004	11/30/18		restek, Lot A090290		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
.PCB_1262_00005	06/30/19		restek, Lot A094073		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
PCB_3262_IMD_00004	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1232_00004	100 uL	PCB-1232	10 ug/mL
.PCB_1232_00004	11/30/18		restek, Lot A090290		(Purchased Reagent)		PCB-1232	1000 ug/mL
PCB_4268_IMD_00002	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1242_00009	100 uL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1242 Peak 5	10 ug/mL
					PCB_1268_00007	100 uL	PCB-1268 Peak 1	10 ug/mL
							PCB-1268 Peak 2	10 ug/mL
							PCB-1268 Peak 3	10 ug/mL
							PCB-1268 Peak 4	10 ug/mL
							PCB-1268 Peak 5	10 ug/mL
.PCB_1242_00009	11/30/18		restek, Lot A090182		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
.PCB_1268_00007	01/31/19		restek, Lot A091582		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
PCB_4268_IMD_00002	09/23/15	03/23/15	Hexane, Lot OP_Hexane_00061	10 mL	PCB_1242_00009	100 uL	PCB-1242	10 ug/mL
.PCB_1242_00009	11/30/18		restek, Lot A090182		(Purchased Reagent)		PCB-1242	1000 ug/mL
PCB_Cu_GRAN_00004	06/10/19		Resprep, Lot 212201-AW		(Purchased Reagent)		Cu	1000000 ug/mL
PCB_IS_Int_00010	10/14/15	04/14/15	Hexane, Lot OP_Hexane_00061	5 mL	PCB_1-Bromo_00002	0.2 mL	1-Bromo-2-nitrobenzene	40 ug/mL
.PCB_1-Bromo_00002	04/30/18		Restek, Lot A0108735		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
V1_gases_I_00093	03/16/15	03/09/15	Methanol, Lot 0000062345	25 mL	V1_Gases_00008	1.25 mL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V1_Gases_00008	09/30/16		Restek, Lot A0105755		(Purchased Reagent)		Bromomethane	2000000 ug/L
							Butadiene	2000000 ug/L
							Chloroethane	2000000 ug/L
							Chloromethane	2000000 ug/L
							Dichlorodifluoromethane	2000000 ug/L
							Dichlorofluoromethane	2000000 ug/L
							Trichlorofluoromethane	2000000 ug/L
							Vinyl chloride	2000000 ug/L
V1_gases_I_00100	04/30/15	04/23/15	Methanol, Lot 0000085233	25 mL	V1_Gases_00009	1 mL	Vinyl chloride	100 ug/mL
.V1_Gases_00009	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Vinyl chloride	2500000 ug/L
V1_Mega_I_00033	03/19/15	02/19/15	Methanol, Lot 0000049909	50 mL	V1_2-CEVE_00005	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					V1_AcroleinHi_00005	0.625 mL	Acrolein	250 ug/mL
					V1_Additions_00010	2.5 mL	1,2,3-Trimethylbenzene	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trichlorobenzene	100 ug/mL
							1-Chlorohexane	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Benzyl chloride	100 ug/mL
							Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Methacrylonitrile	1000 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butanol	2500 ug/mL
							n-Butyl acetate	100 ug/mL
					V1_cyclohxnon_00009	2.5 mL	Cyclohexanone	1000 ug/mL
					V1_Megamix_00012	2.5 mL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	1000 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					V1_Polar addi_00004	2.5 mL	Acetonitrile	1000 ug/mL
							Ethanol	5000 ug/mL
							Isopropyl ether	100 ug/mL
							Propionitrile	1000 ug/mL
							t-Amyl alcohol	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
					V1_vnl acetat_00010	2.5 mL	Vinyl acetate	200 ug/mL
					V2_Keytones_00005	2.5 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	500 ug/mL
.V1_2-CEVE_00005	02/28/16		Restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000000 ug/L
.V1_AcroleinHi_00005	02/28/15		Restek, Lot A0106504		(Purchased Reagent)		Acrolein	20000000 ug/L
.V1_Additions_00010	09/30/15		Restek, Lot A0101694		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000000 ug/L
							1,3,5-Trichlorobenzene	2000000 ug/L
							1-Chlorohexane	2000000 ug/L
							2-Chloro-1,3-butadiene	2000000 ug/L
							2-Nitropropane	4000000 ug/L
							Benzyl chloride	2000000 ug/L
							Ethyl acetate	4000000 ug/L
							Ethyl acrylate	2000000 ug/L
							Isopropyl alcohol	20000000 ug/L
							Methacrylonitrile	20000000 ug/L
							Methyl methacrylate	4000000 ug/L
							n-Butanol	50000000 ug/L
							n-Butyl acetate	2000000 ug/L
.V1_cyclohxnon_00009	02/28/17		Restek, Lot A0101574		(Purchased Reagent)		Cyclohexanone	20000000 ug/L
.V1_Megamix_00012	02/28/16		Restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000000 ug/L
							1,1,1-Trichloroethane	2000000 ug/L
							1,1,2,2-Tetrachloroethane	2000000 ug/L
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000000 ug/L
							1,1,2-Trichloroethane	2000000 ug/L
							1,1-Dichloroethane	2000000 ug/L
							1,1-Dichloroethene	2000000 ug/L
							1,1-Dichloropropene	2000000 ug/L
							1,2,3-Trichlorobenzene	2000000 ug/L
							1,2,3-Trichloropropane	2000000 ug/L
							1,2,4-Trichlorobenzene	2000000 ug/L
							1,2,4-Trimethylbenzene	2000000 ug/L
							1,2-Dibromo-3-Chloropropane	2000000 ug/L
							1,2-Dichlorobenzene	2000000 ug/L
							1,2-Dichloroethane	2000000 ug/L
							1,2-Dichloropropane	2000000 ug/L
							1,3,5-Trimethylbenzene	2000000 ug/L
							1,3-Dichlorobenzene	2000000 ug/L
							1,3-Dichloropropane	2000000 ug/L
							1,4-Dichlorobenzene	2000000 ug/L
							1,4-Dioxane	40000000 ug/L
							2,2-Dichloropropane	2000000 ug/L
							2-Chlorotoluene	2000000 ug/L
							2-Methyl-2-propanol	20000000 ug/L
							3-Chloro-1-propene	2000000 ug/L
							4-Chlorotoluene	2000000 ug/L
							4-Isopropyltoluene	2000000 ug/L
							Acrylonitrile	20000000 ug/L
							Benzene	2000000 ug/L
							Bromobenzene	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	2000000 ug/L
							Carbon disulfide	2000000 ug/L
							Carbon tetrachloride	2000000 ug/L
							Chlorobenzene	2000000 ug/L
							Chlorobromomethane	2000000 ug/L
							Chlorodibromomethane	2000000 ug/L
							Chloroform	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							cis-1,3-Dichloropropene	2000000 ug/L
							Cyclohexane	2000000 ug/L
							Dibromomethane	2000000 ug/L
							Dichlorobromomethane	2000000 ug/L
							Ethyl ether	2000000 ug/L
							Ethyl methacrylate	2000000 ug/L
							Ethylbenzene	2000000 ug/L
							Ethylene Dibromide	2000000 ug/L
							Hexachlorobutadiene	2000000 ug/L
							Hexane	2000000 ug/L
							Iodomethane	2000000 ug/L
							Isobutyl alcohol	20000000 ug/L
							Isopropylbenzene	2000000 ug/L
							m-Xylene & p-Xylene	2000000 ug/L
							Methyl acetate	10000000 ug/L
							Methyl tert-butyl ether	2000000 ug/L
							Methylcyclohexane	2000000 ug/L
							Methylene Chloride	2000000 ug/L
							n-Butylbenzene	2000000 ug/L
							n-Heptane	2000000 ug/L
							N-Propylbenzene	2000000 ug/L
							Naphthalene	2000000 ug/L
							o-Xylene	2000000 ug/L
							sec-Butylbenzene	2000000 ug/L
							Styrene	2000000 ug/L
							tert-Butylbenzene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							Tetrahydrofuran	4000000 ug/L
							Toluene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							trans-1,3-Dichloropropene	2000000 ug/L
							trans-1,4-Dichloro-2-butene	2000000 ug/L
							Trichloroethene	2000000 ug/L
.V1_Polar addi_00004	05/31/16		Restek, Lot A0103696		(Purchased Reagent)		Acetonitrile	20000000 ug/L
							Ethanol	100000000 ug/L
							Isopropyl ether	2000000 ug/L
							Propionitrile	20000000 ug/L
							t-Amyl alcohol	20000000 ug/L
							Tert-amyl methyl ether	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tert-butyl ethyl ether	2000000 ug/L
.V1_vnl acetat_00010	05/31/15	Restek, Lot A0107309			(Purchased Reagent)		Vinyl acetate	4000000 ug/L
.V2_Keytones_00005	12/31/17	Restek, Lot A0107509			(Purchased Reagent)		2-Butanone (MEK)	10000000 ug/L
							2-Hexanone	10000000 ug/L
							4-Methyl-2-pentanone (MIBK)	10000000 ug/L
							Acetone	10000000 ug/L
V1_Mega_I_00035	05/17/15	04/17/15	Methanol, Lot 0000049909	50 mL	V1_Megamix_00013	2 mL	1,1-Dichloroethene	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							Trichloroethene	100 ug/mL
.V1_Megamix_00013	01/31/17	Restek, Lot A0108166			(Purchased Reagent)		1,1-Dichloroethene	2500000 ug/L
							cis-1,2-Dichloroethene	2500000 ug/L
							Tetrachloroethene	2500000 ug/L
							trans-1,2-Dichloroethene	2500000 ug/L
							Trichloroethene	2500000 ug/L
V2_gases_I_00072	03/16/15	03/09/15	Methanol, Lot 0000085233	25 mL	V2_Gases_00008	1.25 mL	Vinyl chloride	100 ug/mL
.V2_Gases_00008	11/30/15	Restek, Lot A099261			(Purchased Reagent)		Vinyl chloride	2000000 ug/L
V2_Mega_I_00036	03/23/15	02/23/15	Methanol, Lot UST_Methanol_00030	10 mL	V2_Megamix_00008	0.5 mL	1,1-Dichloroethene	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							Trichloroethene	100 ug/mL
.V2_Megamix_00008	02/28/16	Restek, Lot A093733			(Purchased Reagent)		1,1-Dichloroethene	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							Trichloroethene	2000000 ug/L
VOA_ISSS_50_W_00024	04/18/15	03/07/15	Methanol, Lot id_00037	50 mL	VOA_ISSS250_W_00019	10 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
							1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
.VOA_ISSS250_W_00019	09/06/15	03/07/15	Methanol, Lot UST_Methanol_00037	50 mL	V1_Surrogates_00002	5 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
					VOA_IS Mix_S_00006	5 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
..V1_Surrogates_00002	02/28/18	Restek, Lot A093505			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromofluorobenzene (Surr)	2500000 ug/L
							Dibromofluoromethane (Surr)	2500000 ug/L
							Toluene-d8 (Surr)	2500000 ug/L
..VOA_IS Mix_S_00006	12/31/15	Ultra Scientific, Lot CK-3734			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500000 ug/L
							Chlorobenzene-d5	2500000 ug/L
							Fluorobenzene (IS)	2500000 ug/L
VOA_ISSS_50_W_00026	10/22/15	04/22/15	Methanol, Lot id_00038	50 mL	VOA_ISSS250_W_00019	10 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOA_ISSS250_W_00019	09/06/15	03/07/15	Methanol, Lot UST_Methanol_00037	50 mL	V1_Surrogates_00002	5 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
..V1_Surrogates_00002	02/28/18	Restek, Lot A093505			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500000 ug/L
							4-Bromofluorobenzene (Surr)	2500000 ug/L
							Dibromofluoromethane (Surr)	2500000 ug/L
							Toluene-d8 (Surr)	2500000 ug/L

Certification Summary

Client: CH2M Hill, Inc.
Project/Site: Schlumberger Sangamo OU-1 GW 2015

TestAmerica Job ID: 490-77157-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	A2LA		NA: NELAP & A2LA
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	Alaska (UST)	State Program	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas DEQ	State Program	6	88-0737
TestAmerica Nashville	California	State Program	9	2938
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAP	4	E87358
TestAmerica Nashville	Illinois	NELAP	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAP	7	E-10229
TestAmerica Nashville	Kentucky (UST)	State Program	4	19
TestAmerica Nashville	Kentucky (WW)	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAP	6	30613
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAP	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana (UST)	State Program	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAP	1	2963
TestAmerica Nashville	New Jersey	NELAP	2	TN965
TestAmerica Nashville	New York	NELAP	2	11342
TestAmerica Nashville	North Carolina (WW/SW)	State Program	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio VAP	State Program	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAP	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAP	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009 (001)
TestAmerica Nashville	South Carolina (DW)	State Program	4	84009 (002)
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAP	6	T104704077
TestAmerica Nashville	USDA	Federal		S-48469
TestAmerica Nashville	Utah	NELAP	8	TN00032
TestAmerica Nashville	Virginia	NELAP	3	460152
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia DEP	State Program	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430
TestAmerica Nashville	Wyoming (UST)	A2LA	8	453.07

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
SGMW-8-GW-HS-042215	490-77157-1	100	97	97	96
SPMW-12-GW-HS-042215	490-77157-2	99	99	98	101
SPMW-12-GW-HS-042215 DL	490-77157-2 DL	100	99	105	97
MW-7-GW-HS-042215	490-77157-3	100	98	105	97
MW-6-GW-HS-042215	490-77157-4	100	96	105	98
SWMW-7-GW-042315	490-77157-5	101	97	107	100
SWMW-7A-GW-042315	490-77157-6	99	98	99	98
SWMW-7A-GW-042315 DL	490-77157-6 DL	98	99	104	97
SWMW-8-GW-042315	490-77157-7	100	98	106	97
SPRW-401-GW-042315	490-77157-8	102	99	99	97
SDMW-3-GW-042315	490-77157-9	98	99	101	99
SDMW-3-GW-042315 DL	490-77157-9 DL	99	99	107	95
SPMW-21-042315	490-77157-10	100	97	104	95
SPMW-24-042315	490-77157-11	101	99	105	97
EB-042315	490-77157-12	99	98	102	100
TB-04-042315	490-77157-13	102	101	102	101
	MB 490-244179/8	100	100	102	102
	MB 490-244280/7	100	97	102	101
	LCS 490-244179/4	99	96	99	96
	LCS 490-244280/3	98	94	101	97
	LCSD 490-244179/5	99	95	99	99
	LCSD 490-244280/4	98	93	99	95
SGMW-8-GW-HS-042215 MS	490-77157-1 MS	98	94	102	97
SGMW-8-GW-HS-042215 MSD	490-77157-1 MSD	99	94	101	96

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 042715-19.D

Lab ID: LCS 490-244179/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	48.26	97	76-125	
1,1-Dichloroethene	50.0	49.59	99	79-124	
Tetrachloroethene	50.0	50.54	101	80-126	
trans-1,2-Dichloroethene	50.0	50.07	100	79-126	
Trichloroethene	50.0	50.29	101	80-123	
Vinyl chloride	50.0	53.36	107	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 042815-03.D

Lab ID: LCS 490-244280/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	48.04	96	76-125	
1,1-Dichloroethene	50.0	49.00	98	79-124	
Tetrachloroethene	50.0	51.33	103	80-126	
trans-1,2-Dichloroethene	50.0	49.06	98	79-126	
Trichloroethene	50.0	50.11	100	80-123	
Vinyl chloride	50.0	52.09	104	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 042715-20.D

Lab ID: LCSD 490-244179/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	47.59	95	1	17	76-125	
1,1-Dichloroethene	50.0	49.35	99	0	17	79-124	
Tetrachloroethene	50.0	50.65	101	0	16	80-126	
trans-1,2-Dichloroethene	50.0	49.29	99	2	16	79-126	
Trichloroethene	50.0	50.00	100	1	17	80-123	
Vinyl chloride	50.0	53.01	106	1	17	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 042815-04.D

Lab ID: LCSD 490-244280/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	46.72	93	3	17	76-125	
1,1-Dichloroethene	50.0	47.63	95	3	17	79-124	
Tetrachloroethene	50.0	50.19	100	2	16	80-126	
trans-1,2-Dichloroethene	50.0	47.32	95	4	16	79-126	
Trichloroethene	50.0	48.24	96	4	17	80-123	
Vinyl chloride	50.0	50.22	100	4	17	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 042715-41.D

Lab ID: 490-77157-1 MS Client ID: SGMW-8-GW-HS-042215 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	1.00 U	50.81	102	68-138	
1,1-Dichloroethene	50.0	1.00 U	54.31	109	70-142	
Tetrachloroethene	50.0	2.72	59.84	114	72-145	
trans-1,2-Dichloroethene	50.0	1.00 U	53.44	107	66-143	
Trichloroethene	50.0	2.13	54.87	105	73-144	
Vinyl chloride	50.0	1.00 U	58.00	116	56-129	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 042715-42.D

Lab ID: 490-77157-1 MSD Client ID: SGMW-8-GW-HS-042215 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
cis-1,2-Dichloroethene	50.0	50.60	101	0	17	68-138	
1,1-Dichloroethene	50.0	55.17	110	2	17	70-142	
Tetrachloroethene	50.0	59.17	113	1	16	72-145	
trans-1,2-Dichloroethene	50.0	52.63	105	2	16	66-143	
Trichloroethene	50.0	55.55	107	1	17	73-144	
Vinyl chloride	50.0	58.58	117	1	17	56-129	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab File ID: 042715-23.D Lab Sample ID: MB 490-244179/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP32 Date Analyzed: 04/28/2015 00:35

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-244179/4	042715-19.D	04/27/2015 22:49
	LCSD 490-244179/5	042715-20.D	04/27/2015 23:16
TB-04-042315	490-77157-13	042715-25.D	04/28/2015 01:28
EB-042315	490-77157-12	042715-26.D	04/28/2015 01:54
SGMW-8-GW-HS-042215	490-77157-1	042715-29.D	04/28/2015 03:13
SPMW-12-GW-HS-042215	490-77157-2	042715-30.D	04/28/2015 03:40
SWMW-7A-GW-042315	490-77157-6	042715-34.D	04/28/2015 05:25
SPRW-401-GW-042315	490-77157-8	042715-36.D	04/28/2015 06:18
SDMW-3-GW-042315	490-77157-9	042715-38.D	04/28/2015 07:10
SGMW-8-GW-HS-042215 MS	490-77157-1 MS	042715-41.D	04/28/2015 09:30
SGMW-8-GW-HS-042215 MSD	490-77157-1 MSD	042715-42.D	04/28/2015 09:57

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab File ID: 042815-07.D Lab Sample ID: MB 490-244280/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP32 Date Analyzed: 04/28/2015 13:04

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-244280/3	042815-03.D	04/28/2015 11:19
	LCSD 490-244280/4	042815-04.D	04/28/2015 11:45
MW-7-GW-HS-042215	490-77157-3	042815-17.D	04/28/2015 17:28
MW-6-GW-HS-042215	490-77157-4	042815-18.D	04/28/2015 17:54
SWMW-7-GW-042315	490-77157-5	042815-19.D	04/28/2015 18:21
SWMW-8-GW-042315	490-77157-7	042815-20.D	04/28/2015 18:47
SPMW-21-042315	490-77157-10	042815-21.D	04/28/2015 19:13
SPMW-24-042315	490-77157-11	042815-22.D	04/28/2015 19:40
SWMW-7A-GW-042315 DL	490-77157-6 DL	042815-23.D	04/28/2015 20:06
SDMW-3-GW-042315 DL	490-77157-9 DL	042815-24.D	04/28/2015 20:32
SPMW-12-GW-HS-042215 DL	490-77157-2 DL	042815-25.D	04/28/2015 20:59

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab File ID: 031315-01.D BFB Injection Date: 03/13/2015

Instrument ID: HP32 BFB Injection Time: 10:59

Analysis Batch No.: 233414

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	
75	30.0 - 60.0 % of mass 95	
95	Base Peak, 100% relative abundance	
96	5.0 - 9.0 % of mass 95	
173	Less than 2.0 % of mass 174	1
174	50.0 - 120.00 % of mass 95	
175	5.0 - 9.0 % of mass 174	1
176	95.0 - 101.0 % of mass 174	1
177	5.0 - 9.0 % of mass 176	2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD0005 490-233414/2	031315-02.D	03/13/2015	11:26
	STD001 490-233414/3	031315-03.D	03/13/2015	11:52
	STD002 490-233414/4	031315-04.D	03/13/2015	12:19
	STD010 490-233414/5	031315-05.D	03/13/2015	12:45
	STD020 490-233414/6	031315-06.D	03/13/2015	13:12
	ICIS 490-233414/7	031315-07.D	03/13/2015	13:38
	STD100 490-233414/8	031315-08.D	03/13/2015	14:05
	STD200 490-233414/9	031315-09.D	03/13/2015	14:31
	ICV 490-233414/12	031315-12.D	03/13/2015	15:50

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab File ID: 042715-17.D BFB Injection Date: 04/27/2015

Instrument ID: HP32 BFB Injection Time: 21:57

Analysis Batch No.: 244179

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.0	
75	30.0 - 60.0 % of mass 95	50.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.2	(0.2)1
174	50.0 - 120.00 % of mass 95	95.4	
175	5.0 - 9.0 % of mass 174	6.7	(7.0)1
176	95.0 - 101.0 % of mass 174	93.2	(97.7)1
177	5.0 - 9.0 % of mass 176	6.0	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-244179/3	042715-18.D	04/27/2015	22:23
	LCS 490-244179/4	042715-19.D	04/27/2015	22:49
	LCSD 490-244179/5	042715-20.D	04/27/2015	23:16
	MB 490-244179/8	042715-23.D	04/28/2015	00:35
TB-04-042315	490-77157-13	042715-25.D	04/28/2015	01:28
EB-042315	490-77157-12	042715-26.D	04/28/2015	01:54
SGMW-8-GW-HS-042215	490-77157-1	042715-29.D	04/28/2015	03:13
SPMW-12-GW-HS-042215	490-77157-2	042715-30.D	04/28/2015	03:40
SWMW-7A-GW-042315	490-77157-6	042715-34.D	04/28/2015	05:25
SPRW-401-GW-042315	490-77157-8	042715-36.D	04/28/2015	06:18
SDMW-3-GW-042315	490-77157-9	042715-38.D	04/28/2015	07:10
SGMW-8-GW-HS-042215 MS	490-77157-1 MS	042715-41.D	04/28/2015	09:30
SGMW-8-GW-HS-042215 MSD	490-77157-1 MSD	042715-42.D	04/28/2015	09:57

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab File ID: 042815-01.D BFB Injection Date: 04/28/2015

Instrument ID: HP32 BFB Injection Time: 10:26

Analysis Batch No.: 244280

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.0	
75	30.0 - 60.0 % of mass 95	49.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.3	(0.3)1
174	50.0 - 120.00 % of mass 95	98.9	
175	5.0 - 9.0 % of mass 174	6.9	(6.9)1
176	95.0 - 101.0 % of mass 174	96.1	(97.2)1
177	5.0 - 9.0 % of mass 176	6.1	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-244280/2	042815-02.D	04/28/2015	10:53
	LCS 490-244280/3	042815-03.D	04/28/2015	11:19
	LCSD 490-244280/4	042815-04.D	04/28/2015	11:45
	MB 490-244280/7	042815-07.D	04/28/2015	13:04
MW-7-GW-HS-042215	490-77157-3	042815-17.D	04/28/2015	17:28
MW-6-GW-HS-042215	490-77157-4	042815-18.D	04/28/2015	17:54
SWMW-7-GW-042315	490-77157-5	042815-19.D	04/28/2015	18:21
SWMW-8-GW-042315	490-77157-7	042815-20.D	04/28/2015	18:47
SPMW-21-042315	490-77157-10	042815-21.D	04/28/2015	19:13
SPMW-24-042315	490-77157-11	042815-22.D	04/28/2015	19:40
SWMW-7A-GW-042315 DL	490-77157-6 DL	042815-23.D	04/28/2015	20:06
SDMW-3-GW-042315 DL	490-77157-9 DL	042815-24.D	04/28/2015	20:32
SPMW-12-GW-HS-042215 DL	490-77157-2 DL	042815-25.D	04/28/2015	20:59

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Sample No.: ICIS 490-233414/7 Date Analyzed: 03/13/2015 13:38

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 031315-07.D Heated Purge: (Y/N) N

Calibration ID: 38060

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		408511	3.45	313426	5.71	183438	7.82
UPPER LIMIT		817022	3.95	626852	6.21	366876	8.32
LOWER LIMIT		204256	2.95	156713	5.21	91719	7.32
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-233414/12		394345	3.45	308116	5.72	176941	7.82
CCVIS 490-244179/3		458314	3.45	341233	5.72	201734	7.82
CCVIS 490-244280/2		448311	3.45	344198	5.71	202094	7.82

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Sample No.: CCVIS 490-244179/3 Date Analyzed: 04/27/2015 22:23

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 042715-18.D Heated Purge: (Y/N) N

Calibration ID: 38060

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		458314	3.45	341233	5.72	201734	7.82
UPPER LIMIT		916628	3.95	682466	6.22	403468	8.32
LOWER LIMIT		229157	2.95	170617	5.22	100867	7.32
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-244179/4		459945	3.45	347834	5.71	202749	7.83
LCSD 490-244179/5		462960	3.45	350785	5.72	203921	7.82
MB 490-244179/8		420938	3.45	320297	5.71	168247	7.83
490-77157-13	TB-04-042315	415688	3.45	314830	5.72	163881	7.83
490-77157-12	EB-042315	417775	3.45	314130	5.72	163627	7.83
490-77157-1	SGMW-8-GW-HS-042215	437744	3.45	343316	5.72	181727	7.82
490-77157-2	SPMW-12-GW-HS-042215	453860	3.45	348342	5.72	180252	7.82
490-77157-6	SWMW-7A-GW-042315	435260	3.45	334117	5.72	178502	7.83
490-77157-8	SPRW-401-GW-042315	427960	3.45	331146	5.72	174879	7.82
490-77157-9	SDMW-3-GW-042315	434448	3.45	328188	5.72	171795	7.82
490-77157-1 MS	SGMW-8-GW-HS-042215 MS	462386	3.45	337078	5.71	197636	7.82
490-77157-1 MSD	SGMW-8-GW-HS-042215 MSD	452356	3.45	338532	5.71	199905	7.82

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Sample No.: CCVIS 490-244280/2 Date Analyzed: 04/28/2015 10:53

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 042815-02.D Heated Purge: (Y/N) N

Calibration ID: 38060

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		448311	3.45	344198	5.71	202094	7.82
UPPER LIMIT		896622	3.95	688396	6.21	404188	8.32
LOWER LIMIT		224156	2.95	172099	5.21	101047	7.32
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-244280/3		446026	3.45	335500	5.71	196929	7.82
LCSD 490-244280/4		454988	3.45	340429	5.71	199639	7.82
MB 490-244280/7		418569	3.45	319818	5.72	168062	7.83
490-77157-3	MW-7-GW-HS-042215	402039	3.45	299169	5.71	154427	7.83
490-77157-4	MW-6-GW-HS-042215	403391	3.45	298338	5.72	155947	7.82
490-77157-5	SWMW-7-GW-042315	402225	3.45	293026	5.72	152186	7.83
490-77157-7	SWMW-8-GW-042315	405562	3.45	294939	5.72	153675	7.82
490-77157-10	SPMW-21-042315	404173	3.45	298275	5.72	157613	7.83
490-77157-11	SPMW-24-042315	399629	3.45	294200	5.72	156241	7.83
490-77157-6 DL	SWMW-7A-GW-042315 DL	401945	3.45	293330	5.72	154433	7.83
490-77157-9 DL	SDMW-3-GW-042315 DL	404169	3.45	292321	5.72	154926	7.83
490-77157-2 DL	SPMW-12-GW-HS-042215 DL	409202	3.45	300177	5.71	158278	7.83

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: SGMW-8-GW-HS-042215 | Lab Sample ID: 490-77157-1

Matrix: Water | Lab File ID: 042715-29.D

Analysis Method: 8260B | Date Collected: 04/22/2015 13:05

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 03:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244179 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	2.72		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	2.13		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: SPMW-12-GW-HS-042215 Lab Sample ID: 490-77157-2

Matrix: Water Lab File ID: 042715-30.D

Analysis Method: 8260B Date Collected: 04/22/2015 13:35

Sample wt/vol: 10(mL) Date Analyzed: 04/28/2015 03:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 244179 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	17.9		1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
156-60-5	trans-1,2-Dichloroethene	0.629	J	1.00	0.230
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: SPMW-12-GW-HS-042215 DL | Lab Sample ID: 490-77157-2 DL

Matrix: Water | Lab File ID: 042815-25.D

Analysis Method: 8260B | Date Collected: 04/22/2015 13:35

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 20:59

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	1370		20.0	2.80
79-01-6	Trichloroethene	1400		20.0	4.00

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: MW-7-GW-HS-042215 | Lab Sample ID: 490-77157-3

Matrix: Water | Lab File ID: 042815-17.D

Analysis Method: 8260B | Date Collected: 04/22/2015 14:35

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 17:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	0.687	J	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	4.86		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: MW-6-GW-HS-042215 | Lab Sample ID: 490-77157-4

Matrix: Water | Lab File ID: 042815-18.D

Analysis Method: 8260B | Date Collected: 04/22/2015 15:00

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 17:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	0.822	J	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	15.9		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: SWMW-7-GW-042315 | Lab Sample ID: 490-77157-5

Matrix: Water | Lab File ID: 042815-19.D

Analysis Method: 8260B | Date Collected: 04/23/2015 10:00

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 18:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	0.260	J	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	4.76		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	0.647	J	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	107		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: SWMW-7A-GW-042315 | Lab Sample ID: 490-77157-6

Matrix: Water | Lab File ID: 042715-34.D

Analysis Method: 8260B | Date Collected: 04/23/2015 11:05

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 05:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244179 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	17.6		1.00	0.210
75-35-4	1,1-Dichloroethene	0.396	J	1.00	0.250
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	83.2		1.00	0.200
75-01-4	Vinyl chloride	0.895	J	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: SWMW-7A-GW-042315 DL | Lab Sample ID: 490-77157-6 DL

Matrix: Water | Lab File ID: 042815-23.D

Analysis Method: 8260B | Date Collected: 04/23/2015 11:05

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 20:06

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	232		5.00	0.700

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: SWMW-8-GW-042315 | Lab Sample ID: 490-77157-7

Matrix: Water | Lab File ID: 042815-20.D

Analysis Method: 8260B | Date Collected: 04/23/2015 13:25

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 18:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	49.9		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	0.852	J	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	106		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: SPRW-401-GW-042315 | Lab Sample ID: 490-77157-8

Matrix: Water | Lab File ID: 042715-36.D

Analysis Method: 8260B | Date Collected: 04/23/2015 13:55

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 06:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244179 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	65.7		1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	32.3		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	17.6		1.00	0.200
75-01-4	Vinyl chloride	0.723	J	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	102		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: SDMW-3-GW-042315 Lab Sample ID: 490-77157-9

Matrix: Water Lab File ID: 042715-38.D

Analysis Method: 8260B Date Collected: 04/23/2015 15:55

Sample wt/vol: 10(mL) Date Analyzed: 04/28/2015 07:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 244179 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	2.83		1.00	0.210
75-35-4	1,1-Dichloroethene	2.40		1.00	0.250
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: SDMW-3-GW-042315 DL | Lab Sample ID: 490-77157-9 DL

Matrix: Water | Lab File ID: 042815-24.D

Analysis Method: 8260B | Date Collected: 04/23/2015 15:55

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 20:32

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	531		5.00	0.700
79-01-6	Trichloroethene	393		5.00	1.00

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	107		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: SPMW-21-042315 | Lab Sample ID: 490-77157-10

Matrix: Water | Lab File ID: 042815-21.D

Analysis Method: 8260B | Date Collected: 04/23/2015 16:35

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 19:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: SPMW-24-042315 | Lab Sample ID: 490-77157-11

Matrix: Water | Lab File ID: 042815-22.D

Analysis Method: 8260B | Date Collected: 04/23/2015 17:00

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 19:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	2.32		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	2.02		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: EB-042315 | Lab Sample ID: 490-77157-12

Matrix: Water | Lab File ID: 042715-26.D

Analysis Method: 8260B | Date Collected: 04/23/2015 17:15

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 01:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244179 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: TB-04-042315 | Lab Sample ID: 490-77157-13

Matrix: Water | Lab File ID: 042715-25.D

Analysis Method: 8260B | Date Collected: 04/23/2015 00:01

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 01:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244179 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
1868-53-7	Dibromofluoromethane (Surr)	102		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-233414/2	031315-02.D
Level 2	STD001 490-233414/3	031315-03.D
Level 3	STD002 490-233414/4	031315-04.D
Level 4	STD010 490-233414/5	031315-05.D
Level 5	STD020 490-233414/6	031315-06.D
Level 6	ICIS 490-233414/7	031315-07.D
Level 7	STD100 490-233414/8	031315-08.D
Level 8	STD200 490-233414/9	031315-09.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.3005 0.2664	0.3035 0.2705	0.2843 0.2641	0.2726	0.2702	Ave		0.2790				5.5		15.0			
Chloromethane	0.2164 0.1978	0.2213 0.2007	0.2136 0.2037	0.2044	0.2007	Ave		0.2073			0.1000	4.1		15.0			
Vinyl chloride	0.2723 0.2410	0.2662 0.2464	0.2358 0.2458	0.2476	0.2430	Ave		0.2498				5.1		15.0			
Butadiene	0.2418 0.2090	0.2235 0.2132	0.2143 0.2158	0.2111	0.2039	Ave		0.2166				5.4		15.0			
Bromomethane	0.1968 0.1766	0.1914 0.1856	0.1840 0.1858	0.1734	0.1705	Ave		0.1830				4.9		15.0			
Chloroethane	0.1636 0.1618	0.1789 0.1624	0.1702 0.1591	0.1631	0.1613	Ave		0.1650				3.9		15.0			
Dichlorofluoromethane	0.5328 0.4413	0.5021 0.4472	0.4645 0.4354	0.4597	0.4367	Ave		0.4650				7.5		15.0			
Trichlorofluoromethane	0.5032 0.4689	0.4792 0.4734	0.4595 0.4652	0.4629	0.4611	Ave		0.4717				3.0		15.0			
Ethanol	0.0006 0.0003	0.0004 0.0003	0.0003 0.0003	0.0003	0.0003	Lin1	0.0048	0.0003							0.9970		0.9900
Diethyl ether	0.1312 0.1284	0.1287 0.1298	0.1203 0.1270	0.1242	0.1272	Ave		0.1271				2.7		15.0			
Acrolein	+++++ 0.0072	0.0160 0.0073	0.0119 0.0070	0.0065	0.0065	Lin1	0.0202	0.0070							0.9980		0.9900
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.2789 0.2584	0.2752 0.2630	0.2515 0.2664	0.2539	0.2587	Ave		0.2632				3.7		15.0			
1,1-Dichloroethene	0.2390 0.2270	0.2534 0.2350	0.2311 0.2325	0.2279	0.2291	Ave		0.2344				3.7		15.0			
Acetone	0.0083 0.0072	0.0091 0.0069	0.0069 0.0068	0.0074	0.0066	Ave		0.0074				12.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Iodomethane	0.1875 0.3509	0.2050 0.3807	0.2238 0.3640	0.2846	0.3127	Lin1	-0.163	0.3640							0.9970		0.9900
Isopropyl alcohol	0.0067 0.0035	0.0056 0.0036	0.0046 0.0037	0.0028	0.0034	Lin1	0.0142	0.0036							0.9970		0.9900
Carbon disulfide	0.6407 0.5979	0.6204 0.5067	0.5724 0.4534	0.5903	0.5890	Ave		0.5713				11.0		15.0			
Acetonitrile	0.0435 0.0382	0.0414 0.0392	0.0400 0.0379	0.0390	0.0379	Ave		0.0396				4.9		15.0			
3-Chloro-1-propene	0.1712 0.1481	0.1604 +++++	0.1546 +++++	0.1522	0.1481	Ave		0.1558				5.7		15.0			
Methyl acetate	0.0827 0.0956	0.0940 0.0969	0.0907 0.0923	0.0939	0.0946	Ave		0.0926				4.8		15.0			
Methylene Chloride	0.3912 0.2365	0.3234 0.2385	0.2781 0.2319	0.2455	0.2359	Lin2	0.0799	0.2358							1.0000		0.9900
tert-Butyl alcohol (TBA)	0.0059 0.0070	0.0069 0.0071	0.0055 0.0072	0.0062	0.0067	Ave		0.0066				9.4		15.0			
Acrylonitrile	0.0359 0.0346	0.0330 0.0350	0.0329 0.0340	0.0330	0.0334	Ave		0.0340				3.3		15.0			
Methyl tert-butyl ether	0.4972 0.4870	0.4642 0.4960	0.4621 0.4772	0.4669	0.4753	Ave		0.4782				2.9		15.0			
trans-1,2-Dichloroethene	0.3322 0.3105	0.3238 0.3098	0.3146 0.3052	0.3126	0.3075	Ave		0.3145				2.9		15.0			
Hexane	0.3377 0.2993	0.3201 0.3000	0.3080 0.2940	0.2908	0.2975	Ave		0.3059				5.1		15.0			
1,1-Dichloroethane	0.4659 0.4065	0.4282 0.4127	0.4161 0.4023	0.4157	0.4025	Ave		0.4187			0.1000	5.0		15.0			
Vinyl acetate	0.1908 0.1867	0.1863 0.1885	0.1814 0.1794	0.1866	0.1835	Ave		0.1854				2.0		15.0			
Diisopropyl ether	0.6002 0.5935	0.5860 0.6000	0.5837 0.5788	0.5845	0.5865	Ave		0.5891				1.3		15.0			
Chloroprene	0.3513 0.3601	0.3532 0.3656	0.3426 0.3547	0.3637	0.3623	Ave		0.3567				2.2		15.0			
Ethyl tert-butyl ether	0.5447 0.5697	0.5543 0.5778	0.5393 0.5541	0.5537	0.5605	Ave		0.5568				2.2		15.0			
cis-1,2-Dichloroethene	0.4305 0.3598	0.3773 0.3647	0.3967 0.3598	0.3750	0.3649	Ave		0.3786				6.4		15.0			
2,2-Dichloropropane	0.4440 0.4015	0.4124 0.4081	0.3911 0.4001	0.3980	0.3938	Ave		0.4061				4.1		15.0			
2-Butanone (MEK)	0.0116 0.0118	0.0128 0.0123	0.0114 0.0121	0.0116	0.0124	Ave		0.0120				4.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	+++++ 0.0682	+++++ 0.0677	0.0764 0.0618	0.0669	0.0641	Ave		0.0675				7.4		15.0			
Propionitrile	0.0120 0.0118	0.0129 0.0122	0.0121 0.0122	0.0111	0.0121	Ave		0.0121				4.1		15.0			
Methacrylonitrile	0.0602 0.0597	0.0584 0.0601	0.0596 0.0577	0.0620	0.0593	Ave		0.0596				2.2		15.0			
Bromochloromethane	0.1704 0.1628	0.1757 0.1624	0.1633 0.1495	0.1625	0.1631	Ave		0.1637				4.6		15.0			
Chloroform	0.5673 0.4612	0.5396 0.4636	0.4969 0.4415	0.4737	0.4568	Ave		0.4876				9.1		15.0			
Tetrahydrofuran	+++++ 0.0246	+++++ 0.0252	0.0223 0.0252	0.0247	0.0229	Ave		0.0241				5.1		15.0			
1,1,1-Trichloroethane	0.4722 0.4536	0.4767 0.4633	0.4484 0.4504	0.4493	0.4492	Ave		0.4579				2.5		15.0			
Cyclohexane	0.4407 0.3855	0.4230 0.3878	0.4023 0.3811	0.3942	0.3894	Ave		0.4005				5.2		15.0			
Carbon tetrachloride	0.4017 0.4063	0.4004 0.4196	0.3804 0.4118	0.3836	0.3936	Ave		0.3997				3.4		15.0			
1,1-Dichloropropene	0.3391 0.3296	0.3494 0.3364	0.3234 0.3300	0.3381	0.3288	Ave		0.3344				2.4		15.0			
Isobutanol	0.0061 0.0065	0.0075 0.0067	0.0053 0.0068	0.0057	0.0064	Ave		0.0064				11.0		15.0			
Benzene	1.0912 0.9936	1.0802 1.0031	1.0263 0.9355	1.0202	0.9995	Ave		1.0187				4.9		15.0			
t-Amyl alcohol	0.0053 0.0055	0.0055 0.0057	0.0050 0.0058	0.0049	0.0052	Ave		0.0054				6.1		15.0			
1,2-Dichloroethane	0.3315 0.2870	0.3059 0.2879	0.2973 0.2767	0.2910	0.2856	Ave		0.2954				5.7		15.0			
Tert-amyl methyl ether	0.5035 0.5072	0.5116 0.5216	0.4617 0.4994	0.5007	0.5088	Ave		0.5018				3.5		15.0			
Heptane	0.3023 0.2649	0.2832 0.2660	0.2712 0.2646	0.2597	0.2672	Ave		0.2724				5.1		15.0			
n-Butanol	+++++ 0.0017	+++++ 0.0017	0.0020 0.0019	0.0015	0.0016	Ave		0.0017				11.0		15.0			
Trichloroethene	0.3239 0.3113	0.3330 0.3172	0.3038 0.3128	0.3095	0.3062	Ave		0.3147				3.1		15.0			
Ethyl acrylate	+++++ 0.1270	+++++ 0.1326	0.0824 0.1334	0.0920	0.1125	Lin1	-0.168	0.1325							0.9980		0.9900
Methylcyclohexane	0.4780 0.4518	0.4838 0.4589	0.4534 0.4515	0.4463	0.4470	Ave		0.4588				3.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloropropane	0.2447 0.2255	0.2219 0.2301	0.2184 0.2254	0.2172	0.2249	Ave		0.2260				3.8		15.0			
Dibromomethane	0.1250 0.1182	0.1221 0.1213	0.1213 0.1165	0.1187	0.1177	Ave		0.1201				2.3		15.0			
Methyl methacrylate	0.0950 0.1047	0.0918 0.1059	0.0948 0.1005	0.1008	0.1016	Ave		0.0994				5.1		15.0			
1,4-Dioxane	+++++ 0.0006	+++++ 0.0006	0.0005 0.0007	0.0006	0.0005	Ave		0.0006				13.0		15.0			
Bromodichloromethane	0.3243 0.3372	0.3275 0.3503	0.3133 0.3456	0.3212	0.3283	Ave		0.3310				3.8		15.0			
2-Nitropropane	+++++ 0.0265	0.0403 0.0300	0.0278 0.0312	0.0229	0.0240	Lin1	-0.007	0.0298							0.9930		0.9900
2-Chloroethyl vinyl ether	0.1067 0.1107	0.1063 0.1095	0.1030 0.1061	0.1019	0.1122	Ave		0.1070				3.3		15.0			
cis-1,3-Dichloropropene	0.4128 0.4696	0.4330 0.4671	0.4446 0.4511	0.4465	0.4607	Ave		0.4482				4.2		15.0			
4-Methyl-2-pentanone (MIBK)	0.0477 0.0503	0.0452 0.0492	0.0477 0.0467	0.0494	0.0514	Ave		0.0485				4.1		15.0			
Toluene	1.7030 1.5037	1.7485 1.4439	1.5819 1.3268	1.5546	1.5561	Ave		1.5523				8.7		15.0			
trans-1,3-Dichloropropene	0.3127 0.3624	0.3229 0.3614	0.3293 0.3520	0.3384	0.3505	Ave		0.3412				5.4		15.0			
Ethyl methacrylate	0.2697 0.2433	0.3271 0.2412	0.2241 0.2265	0.2345	0.2463	Ave		0.2516				13.0		15.0			
1,1,2-Trichloroethane	0.2607 0.2210	0.2370 0.2165	0.2173 0.2038	0.2260	0.2271	Ave		0.2262				7.5		15.0			
Tetrachloroethene	0.3979 0.4356	0.4747 0.4347	0.4499 0.4161	0.4387	0.4387	Ave		0.4358				5.2		15.0			
1,3-Dichloropropane	0.3406 0.3525	0.3434 0.3484	0.3659 0.3351	0.3489	0.3571	Ave		0.3490				2.8		15.0			
2-Hexanone	0.0308 0.0431	0.0417 0.0418	0.0380 0.0405	0.0408	0.0445	Ave		0.0401				11.0		15.0			
Chlorodibromomethane	0.1635 0.2116	0.1619 0.2228	0.1685 0.2262	0.1875	0.1958	Lin2	-0.028	0.2050							0.9910		0.9900
n-Butyl acetate	0.1329 0.1015	0.1014 0.1051	0.0827 0.1004	0.1030	0.1036	Ave		0.1038				13.0		15.0			
1,2-Dibromoethane (EDB)	0.1968 0.2084	0.1958 0.2103	0.1916 0.2078	0.2024	0.2072	Ave		0.2025				3.5		15.0			
1-Chlorohexane	0.4307 0.3653	0.3812 0.3832	0.3698 0.3801	0.3571	0.3524	Ave		0.3775				6.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Chlorobenzene	0.9364 0.9932	1.0410 0.9903	0.9957 0.9473	0.9819	0.9798	Ave		0.9832			0.3000	3.2		15.0			
1,1,1,2-Tetrachloroethane	0.3102 0.3546	0.3103 0.3581	0.2950 0.3586	0.3295	0.3352	Ave		0.3315				7.4		15.0			
Ethylbenzene	1.6798 1.6649	1.6436 1.6461	1.5985 1.5309	1.6486	1.6593	Ave		1.6340				2.9		15.0			
m,p-Xylene	1.2988 1.3466	1.3946 1.3052	1.2953 1.2422	1.3241	1.3328	Ave		1.3175				3.4		15.0			
o-Xylene	1.2575 1.3436	1.3303 1.3406	1.2625 1.2557	1.3080	1.3389	Ave		1.3046				3.0		15.0			
Styrene	0.8675 1.1194	0.9497 1.1156	0.9970 1.0470	1.0626	1.1003	Ave		1.0324				8.6		15.0			
Bromoform	0.1128 0.1571	0.1159 +++++	0.1129 +++++	0.1267	0.1380	Ave		0.1272			0.1000	14.0		15.0			
Isopropylbenzene	1.6423 1.7753	1.7678 1.7467	1.6991 1.6167	1.7235	1.7556	Ave		1.7159				3.4		15.0			
Cyclohexanone	+++++ 0.0021	+++++ 0.0022	0.0036 0.0024	0.0022	0.0021	Lin2	0.0290	0.0021							0.9900		0.9900
Bromobenzene	0.7493 0.8904	1.0643 0.9087	1.0030 0.8962	0.8898	0.8867	Ave		0.9110				10.0		15.0			
1,1,2,2-Tetrachloroethane	0.3400 0.3605	0.3548 0.3666	0.3603 0.3496	0.3621	0.3625	Ave		0.3571			0.3000	2.4		15.0			
1,2,3-Trichloropropane	0.1313 0.1250	0.1322 0.1283	0.1153 0.1211	0.1225	0.1267	Ave		0.1253				4.5		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.0905	+++++ 0.0964	0.0466 0.0950	0.1072	0.0856	Lin1	-0.076	0.0955							0.9980		0.9900
N-Propylbenzene	3.1202 3.3238	3.3423 3.2961	3.2030 3.0325	3.3567	3.3658	Ave		3.2550				3.8		15.0			
2-Chlorotoluene	1.8395 1.9876	2.3217 1.9835	2.1544 1.8782	2.0581	2.0151	Ave		2.0298				7.6		15.0			
1,3,5-Trimethylbenzene	2.5315 2.5118	2.5138 2.5311	2.3820 2.3338	2.4987	2.5202	Ave		2.4779				3.1		15.0			
4-Chlorotoluene	2.3462 2.3548	2.1488 2.3628	2.1865 2.1906	2.4022	2.3863	Ave		2.2973				4.5		15.0			
tert-Butylbenzene	2.2931 2.2195	2.2852 2.2188	2.1024 2.1278	2.1877	2.2153	Ave		2.2062				3.0		15.0			
1,2,4-Trimethylbenzene	2.5508 2.5615	2.4975 2.5679	2.3972 2.3930	2.5520	2.5600	Ave		2.5100				3.0		15.0			
sec-Butylbenzene	3.1247 3.0946	3.1598 3.1047	3.0090 2.8916	3.0591	3.1046	Ave		3.0685				2.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,3-Dichlorobenzene	1.3335 1.3988	1.3420 1.4328	1.2894 1.3849	1.3456	1.3688	Ave		1.3620				3.2		15.0			
p-Isopropyltoluene	2.6811 2.7834	2.7416 2.8092	2.6298 2.6011	2.7482	2.7875	Ave		2.7227				2.8		15.0			
1,4-Dichlorobenzene	1.4946 1.4344	1.4685 1.4587	1.4048 1.4009	1.4517	1.4365	Ave		1.4438				2.2		15.0			
1,2,3-Trimethylbenzene	2.3365 2.4547	2.4706 2.4658	2.3545 2.2996	2.4463	2.4530	Ave		2.4101				2.8		15.0			
Benzyl chloride	0.1026 0.4133	0.2459 0.4333	0.2540 0.4281	0.3257	0.3712	Lin1	-0.224	0.4248							0.9980		0.9900
1,2-Dichlorobenzene	1.1971 1.2171	1.1652 1.2497	1.1523 1.1833	1.2281	1.2308	Ave		1.2029				2.8		15.0			
n-Butylbenzene	2.0058 2.1847	1.8707 2.2216	1.9158 2.0875	2.0855	2.1505	Ave		2.0653				6.1		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0692	0.0478 0.0744	0.0506 0.0747	0.0615	0.0653	Lin2	-0.025	0.0695							0.9940		0.9900
1,3,5-Trichlorobenzene	0.6794 0.8520	0.7388 0.8806	0.7401 0.8900	0.7960	0.8262	Ave		0.8004				9.4		15.0			
1,2,4-Trichlorobenzene	0.4639 0.6440	0.5261 0.6389	0.5487 0.6536	0.5837	0.6200	Ave		0.5849				12.0		15.0			
Hexachlorobutadiene	0.2654 0.3263	0.3030 0.3403	0.3093 0.3567	0.2957	0.3112	Ave		0.3135				9.0		15.0			
Naphthalene	0.8133 0.9970	0.8246 1.0204	0.8649 1.0099	0.8772	0.9671	Ave		0.9218				9.3		15.0			
1,2,3-Trichlorobenzene	0.3561 0.4739	0.4226 0.4849	0.4369 0.4934	0.4284	0.4534	Ave		0.4437				9.9		15.0			
Dibromofluoromethane (Surr)	0.2491 0.2502	0.2506 0.2478	0.2498 0.2462	0.2485	0.2457	Ave		0.2485				0.7		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2325 0.2276	0.2330 0.2222	0.2338 0.2230	0.2414	0.2283	Ave		0.2302				2.7		15.0			
Toluene-d8 (Surr)	1.2978 1.2578	1.3408 1.2289	1.3293 1.1948	1.2975	1.2898	Ave		1.2796				3.9		15.0			
4-Bromofluorobenzene (Surr)	0.8168 0.7899	0.8315 0.7901	0.8018 0.7882	0.8142	0.7925	Ave		0.8031				2.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-233414/2	031315-02.D
Level 2	STD001 490-233414/3	031315-03.D
Level 3	STD002 490-233414/4	031315-04.D
Level 4	STD010 490-233414/5	031315-05.D
Level 5	STD020 490-233414/6	031315-06.D
Level 6	ICIS 490-233414/7	031315-07.D
Level 7	STD100 490-233414/8	031315-08.D
Level 8	STD200 490-233414/9	031315-09.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	2336 217650	4757 444641	8959 882104	43054	87595	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chloromethane	FB	Ave	1682 161586	3469 329939	6732 680591	32283	65073	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Vinyl chloride	FB	Ave	2117 196931	4173 405027	7431 821146	39104	78779	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Butadiene	FB	Ave	1880 170766	3503 350514	6755 720888	33346	66123	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Bromomethane	FB	Ave	1530 144277	3000 305154	5800 620647	27391	55268	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chloroethane	FB	Ave	1272 132211	2804 266957	5364 531464	25753	52291	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Dichlorofluoromethane	FB	Ave	4142 360542	7871 735190	14638 1454339	72591	141598	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Trichlorofluoromethane	FB	Ave	3912 383087	7512 778195	14480 1553946	73108	149489	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethanol	FB	Lin1	221 11160	324 22743	451 50691	1978	4771	25.0 2500	50.0 5000	100 10000	500	1000
Diethyl ether	FB	Ave	1020 104877	2017 213404	3791 424118	19608	41235	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Acrolein	FB	Lin1	+++++ 14798	628 29859	937 58530	2554	5284	+++++ 125	2.50 250	5.00 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	2168 211144	4314 432381	7927 889783	40094	83863	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1-Dichloroethene	FB	Ave	1858 185476	3972 386374	7284 776577	35994	74292	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Acetone	FB	Ave	324 29427	713 56658	1091 113934	5868	10665	2.50 250	5.00 500	10.0 1000	50.0	100
Iodomethane	FB	Lin1	1458 286722	3214 625869	7054 1216028	44943	101386	0.500 50.0	1.00 100	2.00 200	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Isopropyl alcohol	FB	Lin1	520 28753	880 59169	1461 123414	4437	11149	5.00 500	10.0 1000	20.0 2000	100	200
Carbon disulfide	FB	Ave	4981 488520	9725 832887	18040 1514433	93227	190950	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Acetonitrile	FB	Ave	3383 312201	6483 644008	12622 1265883	61650	122827	5.00 500	10.0 1000	20.0 2000	100	200
3-Chloro-1-propene	FB	Ave	1331 121016	2515 +++++	4871 +++++	24038	48010	0.500 50.0	1.00 +++++	2.00 +++++	10.0	20.0
Methyl acetate	FB	Ave	3216 390362	7367 796326	14292 1542386	74130	153317	2.50 250	5.00 500	10.0 1000	50.0	100
Methylene Chloride	FB	Lin2	3041 193233	5069 392045	8766 774519	38778	76472	0.500 50.0	1.00 100	2.00 200	10.0	20.0
tert-Butyl alcohol (TBA)	FB	Ave	456 57029	1075 116292	1739 241015	9792	21693	5.00 500	10.0 1000	20.0 2000	100	200
Acrylonitrile	FB	Ave	2794 282919	5174 576137	10355 1135662	52049	108445	5.00 500	10.0 1000	20.0 2000	100	200
Methyl tert-butyl ether	FB	Ave	3865 397898	7277 815357	14564 1593988	73742	154098	0.500 50.0	1.00 100	2.00 200	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	2583 253655	5076 509270	9914 1019459	49361	99697	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Hexane	FB	Ave	2625 244507	5018 493155	9707 982012	45925	96446	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1-Dichloroethane	FB	Ave	3622 332144	6712 678364	13115 1344002	65653	130498	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Vinyl acetate	FB	Ave	2966 305110	5842 619626	11435 1198609	58949	118998	1.00 100	2.00 200	4.00 400	20.0	40.0
Diisopropyl ether	FB	Ave	4666 484919	9186 986338	18395 1933509	92301	190163	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chloroprene	FB	Ave	2731 294198	5537 601035	10796 1184774	57436	117455	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethyl tert-butyl ether	FB	Ave	4235 465464	8689 949789	16997 1850894	87447	181740	0.500 50.0	1.00 100	2.00 200	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	3347 293926	5915 599564	12502 1201771	59226	118300	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	3452 328019	6465 670849	12325 1336528	62860	127685	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Butanone (MEK)	FB	Ave	449 48280	1000 101091	1791 201348	9143	20088	2.50 250	5.00 500	10.0 1000	50.0	100
Ethyl acetate	FB	Ave	+++++ 111389	+++++ 222497	4814 412753	21123	41535	+++++ 100	+++++ 200	4.00 400	20.0	40.0
Propionitrile	FB	Ave	932 96334	2019 200692	3818 409109	17569	39343	5.00 500	10.0 1000	20.0 2000	100	200

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Methacrylonitrile	FB	Ave	4682 488058	9159 988338	18782 1926960	97905	192273	5.00 500	10.0 1000	20.0 2000	100	200
Bromochloromethane	FB	Ave	1325 133042	2755 266999	5146 499414	25665	52881	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chloroform	FB	Ave	4410 376799	8459 762151	15661 1474803	74812	148105	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Tetrahydrofuran	FB	Ave	+++++ 40237	+++++ 82742	1405 168114	7790	14838	+++++ 100	+++++ 200	4.00 400	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	3671 370640	7473 761560	14131 1504596	70950	145630	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Cyclohexane	FB	Ave	3426 314967	6631 637399	12679 1273026	62247	126236	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Carbon tetrachloride	FB	Ave	3123 331918	6276 689812	11989 1375487	60586	127622	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1-Dichloropropene	FB	Ave	2636 269296	5478 553058	10191 1102371	53395	106602	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Isobutanol	FB	Ave	476 52748	1177 109965	1682 227267	9001	20672	5.00 500	10.0 1000	20.0 2000	100	200
Benzene	FB	Ave	8483 811783	16933 1648980	32344 3124956	161120	324048	0.500 50.0	1.00 100	2.00 200	10.0	20.0
t-Amyl alcohol	FB	Ave	411 44989	867 94047	1581 193350	7719	16718	5.00 500	10.0 1000	20.0 2000	100	200
1,2-Dichloroethane	FB	Ave	2577 234498	4795 473336	9369 924373	45957	92613	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Tert-amyl methyl ether	FB	Ave	3914 414425	8020 857445	14552 1668375	79076	164960	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Heptane	FB	Ave	2350 216454	4440 437181	8546 883760	41008	86646	0.500 50.0	1.00 100	2.00 200	10.0	20.0
n-Butanol	FB	Ave	+++++ 34737	+++++ 71332	1607 156110	5928	12973	+++++ 1250	+++++ 2500	50.0 5000	250	500
Trichloroethene	FB	Ave	2518 254313	5220 521430	9575 1044813	48880	99292	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethyl acrylate	FB	Lin1	+++++ 103764	+++++ 217962	2598 445561	14535	36463	+++++ 50.0	+++++ 100	2.00 200	10.0	20.0
Methylcyclohexane	FB	Ave	3716 369114	7584 754379	14289 1508112	70486	144928	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2-Dichloropropane	FB	Ave	1902 184231	3479 378218	6883 753017	34294	72923	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Dibromomethane	FB	Ave	972 96567	1914 199407	3824 389287	18747	38170	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Methyl methacrylate	FB	Ave	1477 171101	2878 348212	5973 671145	31832	65908	1.00 100	2.00 200	4.00 400	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	FB	Ave	+++++ 9186	+++++ 19931	292 44418	1971	3398	+++++ 1000	+++++ 2000	40.0 4000	200	400
Bromodichloromethane	FB	Ave	2521 275536	5134 575804	9873 1154594	50730	106440	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Nitropropane	FB	Lin1	+++++ 43335	1262 98794	1751 208338	7241	15558	+++++ 100	2.00 200	4.00 400	20.0	40.0
2-Chloroethyl vinyl ether	CBZ	Ave	638 69374	1245 143000	2427 285477	12261	27119	0.500 50.0	1.00 100	2.00 200	10.0	20.0
cis-1,3-Dichloropropene	CBZ	Ave	2467 294371	5069 610296	10476 1213691	53720	111380	0.500 50.0	1.00 100	2.00 200	10.0	20.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	1426 157642	2648 321584	5623 628223	29735	62088	2.50 250	5.00 500	10.0 1000	50.0	100
Toluene	CBZ	Ave	10179 942573	20471 1886416	37275 3569510	187062	376218	0.500 50.0	1.00 100	2.00 200	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	1869 227158	3780 472199	7759 947103	40718	84741	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethyl methacrylate	CBZ	Ave	1612 152494	3830 315071	5281 609362	28214	59546	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	1558 138564	2775 282895	5121 548374	27191	54916	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Tetrachloroethene	CBZ	Ave	2378 273088	5558 567915	10602 1119580	52783	106072	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	2036 220987	4021 455168	8622 901436	41980	86349	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Hexanone	CBZ	Ave	919 135176	2439 272961	4481 544344	24522	53744	2.50 250	5.00 500	10.0 1000	50.0	100
Chlorodibromomethane	CBZ	Lin2	977 132630	1895 291107	3971 608493	22560	47347	0.500 50.0	1.00 100	2.00 200	10.0	20.0
n-Butyl acetate	FB	Ave	1033 82957	1589 172734	2607 335285	16267	33594	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2-Dibromoethane (EDB)	CBZ	Ave	1176 130627	2292 274714	4514 559052	24353	50089	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1-Chlorohexane	FB	Ave	3348 298490	5976 629905	11653 1269779	56396	114256	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Chlorobenzene	CBZ	Ave	5597 622600	12188 1293839	23462 2548620	118143	236887	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	1854 222262	3633 467882	6952 964820	39652	81053	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Ethylbenzene	CBZ	Ave	10040 1043654	19243 2150508	37666 4118659	198370	401179	0.500 50.0	1.00 100	2.00 200	10.0	20.0
m,p-Xylene	CBZ	Ave	7763 844133	16328 1705187	30522 3341869	159327	322239	0.500 50.0	1.00 100	2.00 200	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
o-Xylene	CBZ	Ave	7516 842211	15575 1751471	29749 3378238	157391	323716	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Styrene	CBZ	Ave	5185 701693	11119 1457441	23494 2816759	127853	266023	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Bromoform	CBZ	Ave	674 98495	1357 +++++	2660 +++++	15249	33363	0.500 50.0	1.00 +++++	2.00 +++++	10.0	20.0
Isopropylbenzene	CBZ	Ave	9816 1112864	20698 2282034	40038 4349600	207383	424457	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Cyclohexanone	FB	Lin2	+++++ 16960	+++++ 35600	1133 81666	3446	6707	+++++ 500	+++++ 1000	20.0 2000	100	200
Bromobenzene	DCB	Ave	2329 326650	6765 681896	13008 1386651	60147	124081	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	1057 132243	2255 275129	4673 540855	24480	50729	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	408 45855	840 96273	1496 187391	8278	17736	0.500 50.0	1.00 100	2.00 200	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Lin1	+++++ 33211	+++++ 72323	605 146925	7247	11972	+++++ 50.0	+++++ 100	2.00 200	10.0	20.0
N-Propylbenzene	DCB	Ave	9699 1219426	21244 2473471	41541 4691907	226903	471002	0.500 50.0	1.00 100	2.00 200	10.0	20.0
2-Chlorotoluene	DCB	Ave	5718 729216	14757 1488487	27942 2905942	139118	281990	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	7869 921509	15978 1899439	30894 3610855	168902	352680	0.500 50.0	1.00 100	2.00 200	10.0	20.0
4-Chlorotoluene	DCB	Ave	7293 863936	13658 1773144	28358 3389265	162378	333934	0.500 50.0	1.00 100	2.00 200	10.0	20.0
tert-Butylbenzene	DCB	Ave	7128 814291	14525 1665059	27267 3292185	147884	310012	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	7929 939753	15874 1926998	31091 3702454	172508	358245	0.500 50.0	1.00 100	2.00 200	10.0	20.0
sec-Butylbenzene	DCB	Ave	9713 1135350	20084 2329819	39025 4473875	206786	434459	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	4145 513186	8530 1075213	16723 2142736	90961	191549	0.500 50.0	1.00 100	2.00 200	10.0	20.0
p-Isopropyltoluene	DCB	Ave	8334 1021157	17426 2108133	34107 4024426	185770	390078	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	4646 526257	9334 1094632	18220 2167516	98127	201024	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,3-Trimethylbenzene	DCB	Ave	7263 900570	15703 1850414	30537 3557965	165359	343275	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Benzyl chloride	CBZ	Lin1	613 259068	2879 566139	5985 1151750	39187	89739	0.500 50.0	1.00 100	2.00 200	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 233414

SDG No.:

Instrument ID: HP32 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/13/2015 11:26 Calibration End Date: 03/13/2015 14:31 Calibration ID: 38060

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2-Dichlorobenzene	DCB	Ave	3721 446511	7406 937799	14945 1830800	83016	172233	0.500 50.0	1.00 100	2.00 200	10.0	20.0
n-Butylbenzene	DCB	Ave	6235 801529	11890 1667140	24847 3229732	140976	300945	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Lin2	+++++ 25389	304 55813	656 115606	4156	9137	+++++ 50.0	1.00 100	2.00 200	10.0	20.0
1,3,5-Trichlorobenzene	DCB	Ave	2112 312587	4696 660854	9599 1376992	53810	115620	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	1442 236258	3344 479477	7117 1011235	39457	86765	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Hexachlorobutadiene	DCB	Ave	825 119697	1926 255393	4011 551899	19990	43547	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Naphthalene	DCB	Ave	2528 365761	5241 765727	11218 1562504	59295	135338	0.500 50.0	1.00 100	2.00 200	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	1107 173875	2686 363864	5666 763347	28956	63450	0.500 50.0	1.00 100	2.00 200	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	96822 102225	98208 101841	98390 102794	98118	99577	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	90360 92961	91297 91312	92088 93106	95301	92511	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBZ	Ave	387852 394236	392444 401374	391539 401809	390318	389794	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	DCB	Ave	126949 144906	132128 148227	129995 152438	137599	138627	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: ICV 490-233414/12 Calibration Date: 03/13/2015 15:50

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 031315-12.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2790	0.2746		49.2	50.0	-1.6	30.0
Chloromethane	Ave	0.2073	0.2071	0.1000	50.0	50.0	-0.1	30.0
Vinyl chloride	Ave	0.2498	0.2388		47.8	50.0	-4.4	30.0
Butadiene	Ave	0.2166	0.2073		47.9	50.0	-4.3	30.0
Bromomethane	Ave	0.1830	0.1795		49.0	50.0	-1.9	30.0
Chloroethane	Ave	0.1650	0.1577		47.8	50.0	-4.5	30.0
Dichlorofluoromethane	Ave	0.4650	0.4380		47.1	50.0	-5.8	30.0
Trichlorofluoromethane	Ave	0.4717	0.4558		48.3	50.0	-3.4	30.0
Ethanol	Lin1		0.0003		2934	2500	17.4	30.0
Diethyl ether	Ave	0.1271	0.1260		49.6	50.0	-0.9	30.0
Acrolein	Lin1		0.0062		109	125	-13.1	30.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2632	0.2515		47.8	50.0	-4.5	30.0
1,1-Dichloroethene	Ave	0.2344	0.2213		47.2	50.0	-5.6	30.0
Acetone	Ave	0.0074	0.0056		189	250	-24.4	30.0
Iodomethane	Lin1		0.3697		51.2	50.0	2.5	30.0
Isopropyl alcohol	Lin1		0.0038		524	500	4.8	30.0
Carbon disulfide	Ave	0.5713	0.5700		49.9	50.0	-0.2	30.0
Acetonitrile	Ave	0.0396	0.0361		455	500	-8.9	30.0
3-Chloro-1-propene	Ave	0.1558	0.1402		45.0	50.0	-10.0	30.0
Methyl acetate	Ave	0.0926	0.0824		222	250	-11.1	30.0
Methylene Chloride	Lin2		0.2361		49.7	50.0	-0.6	30.0
tert-Butyl alcohol (TBA)	Ave	0.0066	0.0069		524	500	4.9	30.0
Acrylonitrile	Ave	0.0340	0.0331		487	500	-2.6	30.0
Methyl tert-butyl ether	Ave	0.4782	0.4649		48.6	50.0	-2.8	30.0
trans-1,2-Dichloroethene	Ave	0.3145	0.3163		50.3	50.0	0.6	30.0
Hexane	Ave	0.3059	0.2935		48.0	50.0	-4.1	30.0
1,1-Dichloroethane	Ave	0.4187	0.4172	0.1000	49.8	50.0	-0.4	30.0
Vinyl acetate	Ave	0.1854	0.2566		138	100	38.4*	30.0
Diisopropyl ether	Ave	0.5891	0.5932		50.3	50.0	0.7	30.0
Chloroprene	Ave	0.3567	0.3774		52.9	50.0	5.8	30.0
Ethyl tert-butyl ether	Ave	0.5568	0.5491		49.3	50.0	-1.4	30.0
2,2-Dichloropropane	Ave	0.4061	0.4065		50.0	50.0	0.0	30.0
cis-1,2-Dichloroethene	Ave	0.3786	0.3745		49.5	50.0	-1.1	30.0
2-Butanone (MEK)	Ave	0.0120	0.0109		227	250	-9.1	30.0
Ethyl acetate	Ave	0.0675	0.0779		116	100	15.5	30.0
Propionitrile	Ave	0.0121	0.0115		477	500	-4.7	30.0
Methacrylonitrile	Ave	0.0596	0.0567		476	500	-4.9	30.0
Bromochloromethane	Ave	0.1637	0.1629		49.7	50.0	-0.5	30.0
Chloroform	Ave	0.4876	0.4712		48.3	50.0	-3.4	30.0
Tetrahydrofuran	Ave	0.0241	0.0239		99.0	100	-1.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: ICV 490-233414/12 Calibration Date: 03/13/2015 15:50

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 031315-12.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.4579	0.4591		50.1	50.0	0.3	30.0
Cyclohexane	Ave	0.4005	0.3798		47.4	50.0	-5.2	30.0
1,1-Dichloropropene	Ave	0.3344	0.3604		53.9	50.0	7.8	30.0
Carbon tetrachloride	Ave	0.3997	0.4165		52.1	50.0	4.2	30.0
Isobutanol	Ave	0.0064	0.0065		513	500	2.6	30.0
Benzene	Ave	1.019	1.011		49.6	50.0	-0.7	30.0
t-Amyl alcohol	Ave	0.0054	0.0054		507	500	1.5	30.0
1,2-Dichloroethane	Ave	0.2954	0.2849		48.2	50.0	-3.5	30.0
Tert-amyl methyl ether	Ave	0.5018	0.4926		49.1	50.0	-1.8	30.0
Heptane	Ave	0.2724	0.2591		47.6	50.0	-4.9	30.0
n-Butanol	Ave	0.0017	0.0018		1282	1250	2.6	30.0
Trichloroethene	Ave	0.3147	0.3204		50.9	50.0	1.8	30.0
Ethyl acrylate	Lin1		0.1218		47.2	50.0	-5.5	
Methylcyclohexane	Ave	0.4588	0.4504		49.1	50.0	-1.8	30.0
1,2-Dichloropropane	Ave	0.2260	0.2256		49.9	50.0	-0.2	30.0
Methyl methacrylate	Ave	0.0994	0.0986		99.2	100	-0.8	30.0
Dibromomethane	Ave	0.1201	0.1172		48.8	50.0	-2.4	30.0
1,4-Dioxane	Ave	0.0006	0.0007		1227	1000	22.7	30.0
Bromodichloromethane	Ave	0.3310	0.3345		50.5	50.0	1.1	30.0
2-Nitropropane	Lin1		0.0261		88.0	100	-12.0	30.0
2-Chloroethyl vinyl ether	Ave	0.1070	0.1077		50.3	50.0	0.6	30.0
cis-1,3-Dichloropropene	Ave	0.4482	0.4697		52.4	50.0	4.8	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0485	0.0419		216	250	-13.4	30.0
Toluene	Ave	1.552	1.507		48.6	50.0	-2.9	30.0
trans-1,3-Dichloropropene	Ave	0.3412	0.3809		55.8	50.0	11.6	30.0
Ethyl methacrylate	Ave	0.2516	0.2356		46.8	50.0	-6.4	30.0
1,1,2-Trichloroethane	Ave	0.2262	0.2104		46.5	50.0	-7.0	30.0
Tetrachloroethene	Ave	0.4358	0.4328		49.7	50.0	-0.7	30.0
1,3-Dichloropropane	Ave	0.3490	0.3359		48.1	50.0	-3.7	30.0
2-Hexanone	Ave	0.0401	0.0356		222	250	-11.4	30.0
Chlorodibromomethane	Lin2		0.2073		50.7	50.0	1.4	30.0
n-Butyl acetate	Ave	0.1038	0.1082		52.1	50.0	4.2	30.0
1,2-Dibromoethane (EDB)	Ave	0.2025	0.2018		49.8	50.0	-0.4	30.0
1-Chlorohexane	Ave	0.3775	0.3782		50.1	50.0	0.2	30.0
Chlorobenzene	Ave	0.9832	0.9834	0.3000	50.0	50.0	0.0	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3315	0.3519		53.1	50.0	6.2	30.0
Ethylbenzene	Ave	1.634	1.654		50.6	50.0	1.3	30.0
m,p-Xylene	Ave	1.317	1.330		50.5	50.0	0.9	30.0
o-Xylene	Ave	1.305	1.336		51.2	50.0	2.4	30.0
Styrene	Ave	1.032	1.084		52.5	50.0	5.0	30.0
Bromoform	Ave	0.1272	0.1498	0.1000	58.9	50.0	17.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: ICV 490-233414/12 Calibration Date: 03/13/2015 15:50

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 031315-12.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	1.716	1.764		51.4	50.0	2.8	30.0
Cyclohexanone	Lin2		0.0022		518	500	3.7	30.0
Bromobenzene	Ave	0.9110	0.8984		49.3	50.0	-1.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3571	0.3510	0.3000	49.2	50.0	-1.7	30.0
1,2,3-Trichloropropane	Ave	0.1253	0.1219		48.6	50.0	-2.7	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.0899		47.9	50.0	-4.3	30.0
N-Propylbenzene	Ave	3.255	3.363		51.7	50.0	3.3	30.0
2-Chlorotoluene	Ave	2.030	2.018		49.7	50.0	-0.6	30.0
1,3,5-Trimethylbenzene	Ave	2.478	2.549		51.4	50.0	2.9	30.0
4-Chlorotoluene	Ave	2.297	2.378		51.8	50.0	3.5	30.0
tert-Butylbenzene	Ave	2.206	2.237		50.7	50.0	1.4	30.0
1,2,4-Trimethylbenzene	Ave	2.510	2.536		50.5	50.0	1.1	30.0
sec-Butylbenzene	Ave	3.069	3.166		51.6	50.0	3.2	30.0
1,3-Dichlorobenzene	Ave	1.362	1.389		51.0	50.0	2.0	30.0
p-Isopropyltoluene	Ave	2.723	2.776		51.0	50.0	1.9	30.0
1,4-Dichlorobenzene	Ave	1.444	1.443		50.0	50.0	-0.0	30.0
1,2,3-Trimethylbenzene	Ave	2.410	2.426		50.3	50.0	0.7	30.0
Benzyl chloride	Lin1		0.4058		48.3	50.0	-3.4	30.0
1,2-Dichlorobenzene	Ave	1.203	1.219		50.7	50.0	1.3	30.0
n-Butylbenzene	Ave	2.065	2.177		52.7	50.0	5.4	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0678		49.2	50.0	-1.7	30.0
1,3,5-Trichlorobenzene	Ave	0.8004	0.8447		52.8	50.0	5.5	30.0
1,2,4-Trichlorobenzene	Ave	0.5849	0.6179		52.8	50.0	5.7	30.0
Hexachlorobutadiene	Ave	0.3135	0.3348		53.4	50.0	6.8	30.0
Naphthalene	Ave	0.9218	0.9291		50.4	50.0	0.8	30.0
1,2,3-Trichlorobenzene	Ave	0.4437	0.4398		49.6	50.0	-0.9	30.0
Dibromofluoromethane (Surr)	Ave	0.2485	0.2476		24.9	25.0	-0.4	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2302	0.2255		24.5	25.0	-2.0	30.0
Toluene-d8 (Surr)	Ave	1.280	1.269		24.8	25.0	-0.8	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8031	0.8032		25.0	25.0	0.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCVIS 490-244179/3 Calibration Date: 04/27/2015 22:23

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 042715-18.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2790	0.2855		51.2	50.0	2.3	20.0
Chloromethane	Ave	0.2073	0.2211	0.1000	53.3	50.0	6.6	20.0
Vinyl chloride	Ave	0.2498	0.2659		53.2	50.0	6.4	20.0
Butadiene	Ave	0.2166	0.2366		54.6	50.0	9.2	20.0
Bromomethane	Ave	0.1830	0.1767		48.3	50.0	-3.4	20.0
Chloroethane	Ave	0.1650	0.1769		53.6	50.0	7.2	20.0
Dichlorofluoromethane	Ave	0.4650	0.4486		48.2	50.0	-3.5	20.0
Trichlorofluoromethane	Ave	0.4717	0.4644		49.2	50.0	-1.5	20.0
Ethanol	Lin1		0.0004		2770	2000	38.5	40.0
Diethyl ether	Ave	0.1271	0.1354		53.3	50.0	6.6	20.0
Acrolein	Lin1		0.0099		175	125	40.2*	40.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2632	0.2491		47.3	50.0	-5.4	20.0
1,1-Dichloroethene	Ave	0.2344	0.2326		49.6	50.0	-0.7	20.0
Acetone	Ave	0.0074	0.0075		254	250	1.7	20.0
Iodomethane	Lin1		0.2819		39.2	50.0	-21.6*	20.0
Isopropyl alcohol	Lin1		0.0038		530	500	5.9	20.0
Carbon disulfide	Ave	0.5713	0.6314		55.3	50.0	10.5	20.0
3-Chloro-1-propene	Ave	0.1558	0.1432		46.0	50.0	-8.0	20.0
Acetonitrile	Ave	0.0396	0.0399		503	500	0.6	20.0
Methyl acetate	Ave	0.0926	0.0744		201	250	-19.7	20.0
Methylene Chloride	Lin2		0.2403		50.6	50.0	1.2	20.0
tert-Butyl alcohol (TBA)	Ave	0.0066	0.0068		521	500	4.3	40.0
Acrylonitrile	Ave	0.0340	0.0372		548	500	9.6	20.0
Methyl tert-butyl ether	Ave	0.4782	0.4634		48.5	50.0	-3.1	20.0
trans-1,2-Dichloroethene	Ave	0.3145	0.3118		49.6	50.0	-0.9	20.0
Hexane	Ave	0.3059	0.3012		49.2	50.0	-1.6	20.0
1,1-Dichloroethane	Ave	0.4187	0.4220	0.1000	50.4	50.0	0.8	20.0
Vinyl acetate	Ave	0.1854	0.3617		195	100	95.1*	40.0
Diisopropyl ether	Ave	0.5891	0.6291		53.4	50.0	6.8	20.0
Chloroprene	Ave	0.3567	0.3775		52.9	50.0	5.8	20.0
Ethyl tert-butyl ether	Ave	0.5568	0.5597		50.3	50.0	0.5	20.0
2,2-Dichloropropane	Ave	0.4061	0.3683		45.3	50.0	-9.3	20.0
cis-1,2-Dichloroethene	Ave	0.3786	0.3715		49.1	50.0	-1.9	20.0
2-Butanone (MEK)	Ave	0.0120	0.0125		260	250	4.1	20.0
Ethyl acetate	Ave	0.0675	0.1073		159	100	59.0*	20.0
Propionitrile	Ave	0.0121	0.0135		560	500	12.0	20.0
Methacrylonitrile	Ave	0.0596	0.0642		538	500	7.6	20.0
Bromochloromethane	Ave	0.1637	0.1622		49.5	50.0	-0.9	20.0
Tetrahydrofuran	Ave	0.0241	0.0268		111	100	11.2	20.0
Chloroform	Ave	0.4876	0.4680		48.0	50.0	-4.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCVIS 490-244179/3 Calibration Date: 04/27/2015 22:23

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 042715-18.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.4579	0.4255		46.5	50.0	-7.1	20.0
Cyclohexane	Ave	0.4005	0.3971		49.6	50.0	-0.9	20.0
1,1-Dichloropropene	Ave	0.3344	0.3586		53.6	50.0	7.3	20.0
Carbon tetrachloride	Ave	0.3997	0.3752		46.9	50.0	-6.1	20.0
Isobutanol	Ave	0.0064	0.0029		576	1250	-53.9*	20.0
Benzene	Ave	1.019	1.034		50.7	50.0	1.5	20.0
1,2-Dichloroethane	Ave	0.2954	0.2839		48.1	50.0	-3.9	20.0
t-Amyl alcohol	Ave	0.0054	0.0057		527	500	5.5	40.0
Tert-amyl methyl ether	Ave	0.5018	0.4929		49.1	50.0	-1.8	20.0
Heptane	Ave	0.2724	0.2690		49.4	50.0	-1.2	20.0
n-Butanol	Ave	0.0017	0.0020		1447	1250	15.8	20.0
Trichloroethene	Ave	0.3147	0.3224		51.2	50.0	2.4	20.0
Ethyl acrylate	Lin1		0.1274		49.3	50.0	-1.4	20.0
Methylcyclohexane	Ave	0.4588	0.4568		49.8	50.0	-0.4	20.0
1,2-Dichloropropane	Ave	0.2260	0.2331		51.6	50.0	3.1	20.0
Methyl methacrylate	Ave	0.0994	0.1024		103	100	3.0	20.0
Dibromomethane	Ave	0.1201	0.1185		49.3	50.0	-1.3	20.0
1,4-Dioxane	Ave	0.0006	0.0008		1421	1000	42.1*	20.0
Bromodichloromethane	Ave	0.3310	0.3256		49.2	50.0	-1.6	20.0
2-Nitropropane	Lin1		0.0246		82.8	100	-17.2	20.0
2-Chloroethyl vinyl ether	Ave	0.1070	0.1125		52.6	50.0	5.1	20.0
cis-1,3-Dichloropropene	Ave	0.4482	0.4924		54.9	50.0	9.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0485	0.0536		276	250	10.6	20.0
Toluene	Ave	1.552	1.561		50.3	50.0	0.6	20.0
trans-1,3-Dichloropropene	Ave	0.3412	0.3778		55.4	50.0	10.7	20.0
Ethyl methacrylate	Ave	0.2516	0.2532		50.3	50.0	0.6	20.0
1,1,2-Trichloroethane	Ave	0.2262	0.2242		49.6	50.0	-0.9	20.0
Tetrachloroethene	Ave	0.4358	0.4519		51.9	50.0	3.7	20.0
1,3-Dichloropropane	Ave	0.3490	0.3727		53.4	50.0	6.8	20.0
2-Hexanone	Ave	0.0401	0.0440		274	250	9.6	20.0
Chlorodibromomethane	Lin2		0.2077		50.8	50.0	1.6	20.0
n-Butyl acetate	Ave	0.1038	0.1324		63.8	50.0	27.6*	20.0
1,2-Dibromoethane (EDB)	Ave	0.2025	0.2125		52.5	50.0	4.9	20.0
1-Chlorohexane	Ave	0.3775	0.3766		49.9	50.0	-0.2	20.0
Chlorobenzene	Ave	0.9832	1.045	0.3000	53.2	50.0	6.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3315	0.3511		53.0	50.0	5.9	20.0
Ethylbenzene	Ave	1.634	1.741		53.3	50.0	6.6	20.0
m,p-Xylene	Ave	1.317	1.398		53.1	50.0	6.1	20.0
o-Xylene	Ave	1.305	1.431		54.9	50.0	9.7	20.0
Styrene	Ave	1.032	1.146		55.5	50.0	11.0	20.0
Bromoform	Ave	0.1272	0.1397	0.1000	54.9	50.0	9.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCVIS 490-244179/3 Calibration Date: 04/27/2015 22:23

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 042715-18.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	1.716	1.822		53.1	50.0	6.2	20.0
Cyclohexanone	Lin2		0.0031		738	500	47.5*	20.0
Bromobenzene	Ave	0.9110	0.9267		50.9	50.0	1.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.3571	0.3618	0.3000	50.7	50.0	1.3	20.0
1,2,3-Trichloropropane	Ave	0.1253	0.1190		47.5	50.0	-5.0	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.0831		44.3	50.0	-11.4	20.0
N-Propylbenzene	Ave	3.255	3.507		53.9	50.0	7.7	20.0
2-Chlorotoluene	Ave	2.030	2.100		51.7	50.0	3.5	20.0
1,3,5-Trimethylbenzene	Ave	2.478	2.670		53.9	50.0	7.8	20.0
4-Chlorotoluene	Ave	2.297	2.473		53.8	50.0	7.7	20.0
tert-Butylbenzene	Ave	2.206	2.315		52.5	50.0	4.9	20.0
1,2,4-Trimethylbenzene	Ave	2.510	2.724		54.3	50.0	8.5	20.0
sec-Butylbenzene	Ave	3.069	3.328		54.2	50.0	8.5	20.0
1,3-Dichlorobenzene	Ave	1.362	1.465		53.8	50.0	7.6	20.0
p-Isopropyltoluene	Ave	2.723	2.991		54.9	50.0	9.8	20.0
1,4-Dichlorobenzene	Ave	1.444	1.497		51.8	50.0	3.7	20.0
1,2,3-Trimethylbenzene	Ave	2.410	2.653		55.0	50.0	10.1	20.0
Benzyl chloride	Lin1		0.3359		40.1	50.0	-19.9	20.0
1,2-Dichlorobenzene	Ave	1.203	1.288		53.6	50.0	7.1	20.0
n-Butylbenzene	Ave	2.065	2.415		58.5	50.0	17.0	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0668		48.4	50.0	-3.1	20.0
1,3,5-Trichlorobenzene	Ave	0.8004	1.011		63.2	50.0	26.3*	20.0
1,2,4-Trichlorobenzene	Ave	0.5849	0.7205		61.6	50.0	23.2*	20.0
Hexachlorobutadiene	Ave	0.3135	0.3789		60.4	50.0	20.9*	20.0
Naphthalene	Ave	0.9218	0.9944		53.9	50.0	7.9	20.0
1,2,3-Trichlorobenzene	Ave	0.4437	0.5231		59.0	50.0	17.9	20.0
Dibromofluoromethane (Surr)	Ave	0.2485	0.2454		24.7	25.0	-1.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2302	0.2248		24.4	25.0	-2.3	30.0
Toluene-d8 (Surr)	Ave	1.280	1.284		25.1	25.0	0.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8031	0.7835		24.4	25.0	-2.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCVIS 490-244280/2 Calibration Date: 04/28/2015 10:53

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 042815-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2790	0.2775		49.7	50.0	-0.5	20.0
Chloromethane	Ave	0.2073	0.2218	0.1000	53.5	50.0	7.0	20.0
Vinyl chloride	Ave	0.2498	0.2612		52.3	50.0	4.6	20.0
Butadiene	Ave	0.2166	0.2281		52.7	50.0	5.3	20.0
Bromomethane	Ave	0.1830	0.1793		49.0	50.0	-2.0	20.0
Chloroethane	Ave	0.1650	0.1739		52.7	50.0	5.3	20.0
Dichlorofluoromethane	Ave	0.4650	0.4425		47.6	50.0	-4.8	20.0
Trichlorofluoromethane	Ave	0.4717	0.4572		48.5	50.0	-3.1	20.0
Ethanol	Lin1		0.0004		2410	2000	20.5	40.0
Diethyl ether	Ave	0.1271	0.1329		52.3	50.0	4.6	20.0
Acrolein	Lin1		0.0108		190	125	52.1*	40.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2632	0.2456		46.6	50.0	-6.7	20.0
1,1-Dichloroethene	Ave	0.2344	0.2265		48.3	50.0	-3.4	20.0
Acetone	Ave	0.0074	0.0070		236	250	-5.6	20.0
Iodomethane	Lin1		0.2911		40.4	50.0	-19.1	20.0
Isopropyl alcohol	Lin1		0.0040		547	500	9.3	20.0
Carbon disulfide	Ave	0.5713	0.6198		54.2	50.0	8.5	20.0
3-Chloro-1-propene	Ave	0.1558	0.1386		44.5	50.0	-11.0	20.0
Acetonitrile	Ave	0.0396	0.0391		493	500	-1.3	20.0
Methyl acetate	Ave	0.0926	0.0731		198	250	-21.0*	20.0
Methylene Chloride	Lin2		0.2361		49.7	50.0	-0.6	20.0
tert-Butyl alcohol (TBA)	Ave	0.0066	0.0072		546	500	9.1	40.0
Acrylonitrile	Ave	0.0340	0.0363		534	500	6.7	20.0
Methyl tert-butyl ether	Ave	0.4782	0.4564		47.7	50.0	-4.6	20.0
trans-1,2-Dichloroethene	Ave	0.3145	0.3063		48.7	50.0	-2.6	20.0
Hexane	Ave	0.3059	0.2890		47.2	50.0	-5.5	20.0
1,1-Dichloroethane	Ave	0.4187	0.4141	0.1000	49.5	50.0	-1.1	20.0
Vinyl acetate	Ave	0.1854	0.3891		210	100	109.9*	40.0
Diisopropyl ether	Ave	0.5891	0.6150		52.2	50.0	4.4	20.0
Chloroprene	Ave	0.3567	0.3606		50.6	50.0	1.1	20.0
Ethyl tert-butyl ether	Ave	0.5568	0.5516		49.5	50.0	-0.9	20.0
2,2-Dichloropropane	Ave	0.4061	0.3876		47.7	50.0	-4.6	20.0
cis-1,2-Dichloroethene	Ave	0.3786	0.3606		47.6	50.0	-4.7	20.0
2-Butanone (MEK)	Ave	0.0120	0.0121		253	250	1.1	20.0
Ethyl acetate	Ave	0.0675	0.1025		152	100	51.9*	20.0
Propionitrile	Ave	0.0121	0.0134		556	500	11.2	20.0
Methacrylonitrile	Ave	0.0596	0.0623		523	500	4.5	20.0
Bromochloromethane	Ave	0.1637	0.1643		50.2	50.0	0.4	20.0
Chloroform	Ave	0.4876	0.4587		47.0	50.0	-5.9	20.0
Tetrahydrofuran	Ave	0.0241	0.0268		111	100	11.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCVIS 490-244280/2 Calibration Date: 04/28/2015 10:53

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 042815-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.4579	0.4226		46.1	50.0	-7.7	20.0
Cyclohexane	Ave	0.4005	0.3871		48.3	50.0	-3.3	20.0
1,1-Dichloropropene	Ave	0.3344	0.3469		51.9	50.0	3.7	20.0
Carbon tetrachloride	Ave	0.3997	0.3813		47.7	50.0	-4.6	20.0
Isobutanol	Ave	0.0064	0.0030		580	1250	-53.6*	20.0
Benzene	Ave	1.019	1.015		49.8	50.0	-0.4	20.0
t-Amyl alcohol	Ave	0.0054	0.0057		536	500	7.1	40.0
1,2-Dichloroethane	Ave	0.2954	0.2743		46.4	50.0	-7.1	20.0
Tert-amyl methyl ether	Ave	0.5018	0.4859		48.4	50.0	-3.2	20.0
Heptane	Ave	0.2724	0.2549		46.8	50.0	-6.4	20.0
n-Butanol	Ave	0.0017	0.0021		1472	1250	17.7	20.0
Trichloroethene	Ave	0.3147	0.3142		49.9	50.0	-0.2	20.0
Ethyl acrylate	Lin1		0.1291		50.0	50.0	-0.0	20.0
Methylcyclohexane	Ave	0.4588	0.4472		48.7	50.0	-2.5	20.0
1,2-Dichloropropane	Ave	0.2260	0.2250		49.8	50.0	-0.4	20.0
Methyl methacrylate	Ave	0.0994	0.1003		101	100	0.9	20.0
Dibromomethane	Ave	0.1201	0.1175		48.9	50.0	-2.2	20.0
1,4-Dioxane	Ave	0.0006	0.0009		1617	1000	61.7*	20.0
Bromodichloromethane	Ave	0.3310	0.3209		48.5	50.0	-3.1	20.0
2-Nitropropane	Lin1		0.0249		83.8	100	-16.3	20.0
2-Chloroethyl vinyl ether	Ave	0.1070	0.1092		51.0	50.0	2.0	20.0
cis-1,3-Dichloropropene	Ave	0.4482	0.4682		52.2	50.0	4.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0485	0.0509		262	250	4.9	20.0
Toluene	Ave	1.552	1.515		48.8	50.0	-2.4	20.0
trans-1,3-Dichloropropene	Ave	0.3412	0.3627		53.1	50.0	6.3	20.0
Ethyl methacrylate	Ave	0.2516	0.2441		48.5	50.0	-3.0	20.0
1,1,2-Trichloroethane	Ave	0.2262	0.2141		47.3	50.0	-5.3	20.0
Tetrachloroethene	Ave	0.4358	0.4344		49.8	50.0	-0.3	20.0
1,3-Dichloropropane	Ave	0.3490	0.3551		50.9	50.0	1.7	20.0
2-Hexanone	Ave	0.0401	0.0424		264	250	5.6	20.0
Chlorodibromomethane	Lin2		0.2034		49.7	50.0	-0.5	20.0
n-Butyl acetate	Ave	0.1038	0.1363		65.6	50.0	31.2*	20.0
1,2-Dibromoethane (EDB)	Ave	0.2025	0.2049		50.6	50.0	1.2	20.0
1-Chlorohexane	Ave	0.3775	0.3653		48.4	50.0	-3.2	20.0
Chlorobenzene	Ave	0.9832	0.9936	0.3000	50.5	50.0	1.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3315	0.3426		51.7	50.0	3.3	20.0
Ethylbenzene	Ave	1.634	1.646		50.4	50.0	0.8	20.0
m,p-Xylene	Ave	1.317	1.315		49.9	50.0	-0.2	20.0
o-Xylene	Ave	1.305	1.359		52.1	50.0	4.1	20.0
Styrene	Ave	1.032	1.087		52.6	50.0	5.3	20.0
Bromoform	Ave	0.1272	0.1372	0.1000	53.9	50.0	7.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCVIS 490-244280/2 Calibration Date: 04/28/2015 10:53

Instrument ID: HP32 Calib Start Date: 03/13/2015 11:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/13/2015 14:31

Lab File ID: 042815-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	1.716	1.724		50.2	50.0	0.5	20.0
Cyclohexanone	Lin2		0.0027		625	500	25.1*	20.0
Bromobenzene	Ave	0.9110	0.8820		48.4	50.0	-3.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.3571	0.3508	0.3000	49.1	50.0	-1.8	20.0
1,2,3-Trichloropropane	Ave	0.1253	0.1181		47.1	50.0	-5.8	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.0801		42.7	50.0	-14.6	20.0
N-Propylbenzene	Ave	3.255	3.337		51.3	50.0	2.5	20.0
2-Chlorotoluene	Ave	2.030	1.977		48.7	50.0	-2.6	20.0
1,3,5-Trimethylbenzene	Ave	2.478	2.565		51.8	50.0	3.5	20.0
4-Chlorotoluene	Ave	2.297	2.351		51.2	50.0	2.3	20.0
tert-Butylbenzene	Ave	2.206	2.199		49.8	50.0	-0.3	20.0
1,2,4-Trimethylbenzene	Ave	2.510	2.591		51.6	50.0	3.2	20.0
sec-Butylbenzene	Ave	3.069	3.185		51.9	50.0	3.8	20.0
1,3-Dichlorobenzene	Ave	1.362	1.396		51.2	50.0	2.5	20.0
p-Isopropyltoluene	Ave	2.723	2.872		52.8	50.0	5.5	20.0
1,4-Dichlorobenzene	Ave	1.444	1.427		49.4	50.0	-1.1	20.0
1,2,3-Trimethylbenzene	Ave	2.410	2.515		52.2	50.0	4.3	20.0
Benzyl chloride	Lin1		0.3533		42.1	50.0	-15.8	20.0
1,2-Dichlorobenzene	Ave	1.203	1.251		52.0	50.0	4.0	20.0
n-Butylbenzene	Ave	2.065	2.272		55.0	50.0	10.0	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0657		47.6	50.0	-4.7	20.0
1,3,5-Trichlorobenzene	Ave	0.8004	0.9617		60.1	50.0	20.2*	20.0
1,2,4-Trichlorobenzene	Ave	0.5849	0.7007		59.9	50.0	19.8	20.0
Hexachlorobutadiene	Ave	0.3135	0.3722		59.4	50.0	18.7	20.0
Naphthalene	Ave	0.9218	0.9860		53.5	50.0	7.0	20.0
1,2,3-Trichlorobenzene	Ave	0.4437	0.5015		56.5	50.0	13.0	20.0
Dibromofluoromethane (Surr)	Ave	0.2485	0.2509		25.2	25.0	1.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2302	0.2213		24.0	25.0	-3.9	30.0
Toluene-d8 (Surr)	Ave	1.280	1.262		24.7	25.0	-1.4	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8031	0.7693		24.0	25.0	-4.2	30.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-244179/8

Matrix: Water | Lab File ID: 042715-23.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 00:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244179 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-244280/7

Matrix: Water | Lab File ID: 042815-07.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 13:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-244179/4

Matrix: Water | Lab File ID: 042715-19.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/27/2015 22:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244179 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	48.26		1.00	0.210
75-35-4	1,1-Dichloroethene	49.59		1.00	0.250
127-18-4	Tetrachloroethene	50.54		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	50.07		1.00	0.230
79-01-6	Trichloroethene	50.29		1.00	0.200
75-01-4	Vinyl chloride	53.36		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-244280/3

Matrix: Water | Lab File ID: 042815-03.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 11:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	48.04		1.00	0.210
75-35-4	1,1-Dichloroethene	49.00		1.00	0.250
127-18-4	Tetrachloroethene	51.33		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	49.06		1.00	0.230
79-01-6	Trichloroethene	50.11		1.00	0.200
75-01-4	Vinyl chloride	52.09		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 490-244179/5

Matrix: Water | Lab File ID: 042715-20.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/27/2015 23:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244179 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	47.59		1.00	0.210
75-35-4	1,1-Dichloroethene	49.35		1.00	0.250
127-18-4	Tetrachloroethene	50.65		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	49.29		1.00	0.230
79-01-6	Trichloroethene	50.00		1.00	0.200
75-01-4	Vinyl chloride	53.01		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 490-244280/4

Matrix: Water | Lab File ID: 042815-04.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 11:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	46.72		1.00	0.210
75-35-4	1,1-Dichloroethene	47.63		1.00	0.250
127-18-4	Tetrachloroethene	50.19		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	47.32		1.00	0.230
79-01-6	Trichloroethene	48.24		1.00	0.200
75-01-4	Vinyl chloride	50.22		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: SGMW-8-GW-HS-042215 MS | Lab Sample ID: 490-77157-1 MS

Matrix: Water | Lab File ID: 042715-41.D

Analysis Method: 8260B | Date Collected: 04/22/2015 13:05

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 09:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244179 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	50.81		1.00	0.210
75-35-4	1,1-Dichloroethene	54.31		1.00	0.250
127-18-4	Tetrachloroethene	59.84		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	53.44		1.00	0.230
79-01-6	Trichloroethene	54.87		1.00	0.200
75-01-4	Vinyl chloride	58.00		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: SGMW-8-GW-HS-042215 MSD | Lab Sample ID: 490-77157-1 MSD

Matrix: Water | Lab File ID: 042715-42.D

Analysis Method: 8260B | Date Collected: 04/22/2015 13:05

Sample wt/vol: 10(mL) | Date Analyzed: 04/28/2015 09:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 244179 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	50.60		1.00	0.210
75-35-4	1,1-Dichloroethene	55.17		1.00	0.250
127-18-4	Tetrachloroethene	59.17		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	52.63		1.00	0.230
79-01-6	Trichloroethene	55.55		1.00	0.200
75-01-4	Vinyl chloride	58.58		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP32 Start Date: 03/13/2015 10:59

Analysis Batch Number: 233414 End Date: 03/13/2015 15:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-233414/1		03/13/2015 10:59	1	031315-01.D	DB-624 0.18(mm)
STD0005 490-233414/2 IC		03/13/2015 11:26	1	031315-02.D	DB-624 0.18(mm)
STD001 490-233414/3 IC		03/13/2015 11:52	1	031315-03.D	DB-624 0.18(mm)
STD002 490-233414/4 IC		03/13/2015 12:19	1	031315-04.D	DB-624 0.18(mm)
STD010 490-233414/5 IC		03/13/2015 12:45	1	031315-05.D	DB-624 0.18(mm)
STD020 490-233414/6 IC		03/13/2015 13:12	1	031315-06.D	DB-624 0.18(mm)
ICIS 490-233414/7		03/13/2015 13:38	1	031315-07.D	DB-624 0.18(mm)
STD100 490-233414/8 IC		03/13/2015 14:05	1	031315-08.D	DB-624 0.18(mm)
STD200 490-233414/9 IC		03/13/2015 14:31	1	031315-09.D	DB-624 0.18(mm)
ICV 490-233414/12		03/13/2015 15:50	1	031315-12.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP32 Start Date: 04/27/2015 21:57

Analysis Batch Number: 244179 End Date: 04/28/2015 09:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-244179/2		04/27/2015 21:57	1	042715-17.D	DB-624 0.18(mm)
CCVIS 490-244179/3		04/27/2015 22:23	1	042715-18.D	DB-624 0.18(mm)
LCS 490-244179/4		04/27/2015 22:49	1	042715-19.D	DB-624 0.18(mm)
LCSD 490-244179/5		04/27/2015 23:16	1	042715-20.D	DB-624 0.18(mm)
MB 490-244179/8		04/28/2015 00:35	1	042715-23.D	DB-624 0.18(mm)
ZZZZZ		04/28/2015 01:02	1		DB-624 0.18(mm)
490-77157-13	TB-04-042315	04/28/2015 01:28	1	042715-25.D	DB-624 0.18(mm)
490-77157-12	EB-042315	04/28/2015 01:54	1	042715-26.D	DB-624 0.18(mm)
ZZZZZ		04/28/2015 02:20	500		DB-624 0.18(mm)
ZZZZZ		04/28/2015 02:47	1		DB-624 0.18(mm)
490-77157-1	SGMW-8-GW-HS-042215	04/28/2015 03:13	1	042715-29.D	DB-624 0.18(mm)
490-77157-2	SPMW-12-GW-HS-042215	04/28/2015 03:40	1	042715-30.D	DB-624 0.18(mm)
ZZZZZ		04/28/2015 04:06	1		DB-624 0.18(mm)
ZZZZZ		04/28/2015 04:32	1		DB-624 0.18(mm)
ZZZZZ		04/28/2015 04:59	1		DB-624 0.18(mm)
490-77157-6	SWMW-7A-GW-042315	04/28/2015 05:25	1	042715-34.D	DB-624 0.18(mm)
ZZZZZ		04/28/2015 05:51	1		DB-624 0.18(mm)
490-77157-8	SPRW-401-GW-042315	04/28/2015 06:18	1	042715-36.D	DB-624 0.18(mm)
ZZZZZ		04/28/2015 06:44	1		DB-624 0.18(mm)
490-77157-9	SDMW-3-GW-042315	04/28/2015 07:10	1	042715-38.D	DB-624 0.18(mm)
ZZZZZ		04/28/2015 07:37	1		DB-624 0.18(mm)
490-77157-1 MS	SGMW-8-GW-HS-042215 MS	04/28/2015 09:30	1	042715-41.D	DB-624 0.18(mm)
490-77157-1 MSD	SGMW-8-GW-HS-042215 MSD	04/28/2015 09:57	1	042715-42.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP32 Start Date: 04/28/2015 10:26

Analysis Batch Number: 244280 End Date: 04/28/2015 21:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-244280/1		04/28/2015 10:26	1	042815-01.D	DB-624 0.18(mm)
CCVIS 490-244280/2		04/28/2015 10:53	1	042815-02.D	DB-624 0.18(mm)
LCS 490-244280/3		04/28/2015 11:19	1	042815-03.D	DB-624 0.18(mm)
LCSD 490-244280/4		04/28/2015 11:45	1	042815-04.D	DB-624 0.18(mm)
MB 490-244280/7		04/28/2015 13:04	1	042815-07.D	DB-624 0.18(mm)
ZZZZZ		04/28/2015 13:30	1		DB-624 0.18(mm)
ZZZZZ		04/28/2015 13:57	1		DB-624 0.18(mm)
ZZZZZ		04/28/2015 14:24	1		DB-624 0.18(mm)
ZZZZZ		04/28/2015 14:50	1		DB-624 0.18(mm)
ZZZZZ		04/28/2015 15:17	1		DB-624 0.18(mm)
ZZZZZ		04/28/2015 15:43	1		DB-624 0.18(mm)
ZZZZZ		04/28/2015 16:09	1		DB-624 0.18(mm)
ZZZZZ		04/28/2015 16:36	1		DB-624 0.18(mm)
490-77157-3	MW-7-GW-HS-042215	04/28/2015 17:28	1	042815-17.D	DB-624 0.18(mm)
490-77157-4	MW-6-GW-HS-042215	04/28/2015 17:54	1	042815-18.D	DB-624 0.18(mm)
490-77157-5	SWMW-7-GW-042315	04/28/2015 18:21	1	042815-19.D	DB-624 0.18(mm)
490-77157-7	SWMW-8-GW-042315	04/28/2015 18:47	1	042815-20.D	DB-624 0.18(mm)
490-77157-10	SPMW-21-042315	04/28/2015 19:13	1	042815-21.D	DB-624 0.18(mm)
490-77157-11	SPMW-24-042315	04/28/2015 19:40	1	042815-22.D	DB-624 0.18(mm)
490-77157-6 DL	SWMW-7A-GW-042315 DL	04/28/2015 20:06	5	042815-23.D	DB-624 0.18(mm)
490-77157-9 DL	SDMW-3-GW-042315 DL	04/28/2015 20:32	5	042815-24.D	DB-624 0.18(mm)
490-77157-2 DL	SPMW-12-GW-HS-042215 DL	04/28/2015 20:59	20	042815-25.D	DB-624 0.18(mm)
ZZZZZ		04/28/2015 21:25	1		DB-624 0.18(mm)
ZZZZZ		04/28/2015 21:52	1		DB-624 0.18(mm)

Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Matrix: Water Level: Low

GC Column (2): RTX-50 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	TCX2 #	DCB2 #
SPMW-12-GW-HS-042215	490-77157-2	84	71
SWMW-7-GW-042315	490-77157-5	88	73
SWMW-7A-GW-042315	490-77157-6	97	98
SWMW-8-GW-042315	490-77157-7	81	81
SPRW-401-GW-042315	490-77157-8	81	98
SDMW-3-GW-042315	490-77157-9	89	75
EB-042315	490-77157-12	87	79
	MB 490-243673/1-A	91	100
	LCS 490-243673/2-A	84	93

	QC LIMITS
TCX = Tetrachloro-m-xylene	10-150
DCB = DCB Decachlorobiphenyl (Surr)	10-150

Column to be used to flag recovery values

FORM II 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 042715hp37.028dat.d

Lab ID: LCS 490-243673/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	5.00	4.273	85	23-139	
PCB-1260	5.00	4.205	84	36-144	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: MB 490-243673/1-A

Matrix: Water Date Extracted: 04/24/2015 12:57

Lab File ID:(1) 042715hp37.027dat.d Lab File ID:(2) 042715hp37.027dat.d

Date Analyzed:(1) 04/27/2015 17:19 Date Analyzed:(2) 04/27/2015 17:19

Instrument ID:(1) HP37 Instrument ID:(2) HP37

GC Column:(1) RTX-5 ID: 0.32(mm) GC Column:(2) RTX-50 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 490-243673/2-A	04/27/2015 17:35	04/27/2015 17:35
SPMW-12-GW-HS-042215	490-77157-2	04/27/2015 17:51	04/27/2015 17:51
SWMW-7-GW-042315	490-77157-5	04/27/2015 18:06	04/27/2015 18:06
SWMW-8-GW-042315	490-77157-7	04/27/2015 18:38	04/27/2015 18:38
SDMW-3-GW-042315	490-77157-9	04/27/2015 19:09	04/27/2015 19:09
EB-042315	490-77157-12	04/27/2015 19:25	04/27/2015 19:25
SWMW-7A-GW-042315	490-77157-6	04/28/2015 12:13	04/28/2015 12:13
SPRW-401-GW-042315	490-77157-8	04/28/2015 12:29	04/28/2015 12:29

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Sample No.: ICIS 490-241477/6 Date Analyzed: 04/15/2015 19:02

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): 041515hp37.019dat.d Heated Purge: (Y/N) N

Calibration ID: 39698

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		549055	1.55				
UPPER LIMIT							
LOWER LIMIT							
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-241477/9		548276	1.55				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.1 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Sample No.: ICIS 490-241477/6 Date Analyzed: 04/15/2015 19:02

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm)

Lab File ID (Standard): 041515hp37.019dat.d Heated Purge: (Y/N) N

Calibration ID: 39699

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		3097341	1.51				
UPPER LIMIT							
LOWER LIMIT							
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-241477/9		3170263	1.51				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.1 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Sample No.: CCVIS 490-244045/2 Date Analyzed: 04/27/2015 10:11

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): 042715hp37.002dat.d Heated Purge: (Y/N) N

Calibration ID: 39722

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		533887	1.55				
UPPER LIMIT							
LOWER LIMIT							
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 490-244045/3		559315	1.55				
CCV 490-244045/4		529139	1.55				
CCV 490-244045/5		544229	1.55				
CCV 490-244045/6		545630	1.55				
CCB 490-244045/7		542286	1.55				
MB 490-243673/1-A		483483	1.55				
LCS 490-243673/2-A		497985	1.55				
490-77157-2	SPMW-12-GW-HS-042215	513188	1.56				
490-77157-5	SWMW-7-GW-042315	527942	1.55				
490-77157-7	SWMW-8-GW-042315	507936	1.55				
490-77157-9	SDMW-3-GW-042315	519094	1.55				
490-77157-12	EB-042315	519359	1.55				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.1 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Sample No.: CCVIS 490-244045/2 Date Analyzed: 04/27/2015 10:11

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm)

Lab File ID (Standard): 042715hp37.002dat.d Heated Purge: (Y/N) N

Calibration ID: 39723

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3031742	1.51				
UPPER LIMIT							
LOWER LIMIT							
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 490-244045/3		3127470	1.51				
CCV 490-244045/4		3034432	1.50				
CCV 490-244045/5		3052987	1.51				
CCV 490-244045/6		3062633	1.51				
CCB 490-244045/7		3051279	1.51				
MB 490-243673/1-A		2875046	1.50				
LCS 490-243673/2-A		2881811	1.51				
490-77157-2	SPMW-12-GW-HS-042215	2833970	1.51				
490-77157-5	SWMW-7-GW-042315	2994507	1.51				
490-77157-7	SWMW-8-GW-042315	2816143	1.50				
490-77157-9	SDMW-3-GW-042315	2880385	1.50				
490-77157-12	EB-042315	2959507	1.51				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.1 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Sample No.: CCVIS 490-244295/2 Date Analyzed: 04/28/2015 10:40

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): 042815hp37.002dat.d Heated Purge: (Y/N) N

Calibration ID: 39722

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		538536	1.55				
UPPER LIMIT							
LOWER LIMIT							
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 490-244295/3		562711	1.55				
CCV 490-244295/4		544246	1.55				
CCV 490-244295/5		549908	1.55				
CCV 490-244295/6		564494	1.55				
CCB 490-244295/7		559315	1.55				
490-77157-6	SWMW-7A-GW-042315	509558	1.55				
490-77157-8	SPRW-401-GW-042315	545873	1.55				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.1 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Sample No.: CCVIS 490-244295/2 Date Analyzed: 04/28/2015 10:40

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm)

Lab File ID (Standard): 042815hp37.002dat.d Heated Purge: (Y/N) N

Calibration ID: 39723

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3075676	1.51				
UPPER LIMIT							
LOWER LIMIT							
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 490-244295/3		3134548	1.51				
CCV 490-244295/4		3129476	1.50				
CCV 490-244295/5		3094718	1.51				
CCV 490-244295/6		3090691	1.51				
CCB 490-244295/7		3160161	1.51				
490-77157-6	SWMW-7A-GW-042315	2998833	1.51				
490-77157-8	SPRW-401-GW-042315	3053400	1.51				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.1 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: SWMW-7-GW-042315 Lab Sample ID: 490-77157-5

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/27/2015 18:06 Date Analyzed (2): 04/27/2015 18:06

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	3.57	3.53	3.59	1.88	1.00	12.3
		2	3.66	3.62	3.68	1.68		
		3	4.02	3.99	4.05	0.397		
		4	4.05	4.02	4.08	0.547		
		5	4.27	4.24	4.30	0.521		
	2	1	3.79	3.76	3.82	1.63	0.888	
		2	3.92	3.89	3.95	1.55		
		3	4.21	4.18	4.24	0.369		
		4	4.26	4.23	4.29	0.550		
		5	4.53	4.50	4.56	0.343		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: SWMW-7A-GW-042315 Lab Sample ID: 490-77157-6

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/28/2015 12:13 Date Analyzed (2): 04/28/2015 12:13

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	3.56	3.53	3.59	19.0	10.3	5.2
		2	3.65	3.62	3.68	18.8		
		3	4.02	3.99	4.05	3.68		
		4	4.05	4.02	4.08	5.39		
		5	4.27	4.24	4.30	4.56		
	2	1	3.79	3.76	3.82	17.4	9.77	
		2	3.92	3.89	3.95	17.8		
		3	4.21	4.18	4.24	3.84		
		4	4.26	4.23	4.29	5.55		
		5	4.53	4.50	4.56	4.30		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: SWMW-8-GW-042315 Lab Sample ID: 490-77157-7

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/27/2015 18:38 Date Analyzed (2): 04/27/2015 18:38

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	3.56	3.53	3.59	6.69	5.07	36.0
		2	3.65	3.62	3.68	6.54		
		4	4.05	4.02	4.08	3.92		
		5	4.27	4.24	4.30	3.13		
	2	1	3.79	3.76	3.82	5.96	3.52	
		2	3.92	3.89	3.95	5.93		
		3	4.21	4.18	4.24	0.496		
		4	4.26	4.23	4.29	3.55		
		5	4.53	4.50	4.56	1.68		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: SDMW-3-GW-042315 Lab Sample ID: 490-77157-9

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/27/2015 19:09 Date Analyzed (2): 04/27/2015 19:09

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	3.56	3.53	3.59	1.93	0.819	8.9
		2	3.65	3.62	3.68	1.31		
		3	4.02	3.99	4.05	0.257		
		4	4.05	4.02	4.08	0.165		
		5	4.27	4.24	4.30	0.438		
	2	1	3.79	3.76	3.82	1.75	0.750	
		2	3.92	3.89	3.95	1.21		
		3	4.21	4.18	4.24	0.262		
		4	4.26	4.23	4.29	0.306		
		5	4.53	4.50	4.56	0.218		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 490-243673/2-A

Instrument ID (1): HP37 Instrument ID (2): HP37

Date Analyzed (1): 04/27/2015 17:35 Date Analyzed (2): 04/27/2015 17:35

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): RTX-50 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.31	2.28	2.34	4.44	4.856	12.8
		2	2.60	2.57	2.63	4.90		
		3	2.76	2.73	2.79	5.04		
		4	2.79	2.76	2.82	4.94		
		5	3.03	3.00	3.06	4.96		
	2	1	2.40	2.37	2.43	4.01	4.273	
		2	2.74	2.71	2.77	4.25		
		3	2.93	2.91	2.97	4.38		
		4	2.97	2.94	3.00	4.26		
		5	3.17	3.14	3.20	4.47		
PCB-1260	1	1	4.94	4.92	4.98	5.02	4.940	16.1
		2	5.28	5.26	5.32	5.27		
		3	5.63	5.61	5.67	5.57		
		4	6.09	6.07	6.13	4.38		
		5	6.50	6.47	6.53	4.46		
	2	1	5.53	5.50	5.56	4.38	4.205	
		2	5.99	5.96	6.02	4.94		
		3	6.49	6.47	6.53	3.92		
		4	6.59	6.56	6.62	3.94		
		5	6.83	6.80	6.86	3.84		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: SPMW-12-GW-HS-042215 | Lab Sample ID: 490-77157-2

Matrix: Water | Lab File ID: 042715hp37.029dat.d

Analysis Method: 8082A | Date Collected: 04/22/2015 13:35

Extraction Method: 3510C | Date Extracted: 04/24/2015 12:57

Sample wt/vol: 1055(mL) | Date Analyzed: 04/27/2015 17:51

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 244045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.474	U	0.474	0.0607
12672-29-6	PCB-1248	0.474	U	0.474	0.0654
11097-69-1	PCB-1254	0.474	U	0.474	0.00664

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: SPMW-12-GW-HS-042215 Lab Sample ID: 490-77157-2

Matrix: Water Lab File ID: 042715hp37.029dat.d

Analysis Method: 8082A Date Collected: 04/22/2015 13:35

Extraction Method: 3510C Date Extracted: 04/24/2015 12:57

Sample wt/vol: 1055(mL) Date Analyzed: 04/27/2015 17:51

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-50 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 244045 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	71		10-150
877-09-8	Tetrachloro-m-xylene	84		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: SWMW-7-GW-042315 Lab Sample ID: 490-77157-5

Matrix: Water Lab File ID: 042715hp37.030dat.d

Analysis Method: 8082A Date Collected: 04/23/2015 10:00

Extraction Method: 3510C Date Extracted: 04/24/2015 12:57

Sample wt/vol: 1025(mL) Date Analyzed: 04/27/2015 18:06

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 244045 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.488	U	0.488	0.0624
11097-69-1	PCB-1254	0.488	U	0.488	0.00683

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: SWMW-7-GW-042315 | Lab Sample ID: 490-77157-5

Matrix: Water | Lab File ID: 042715hp37.030dat.d

Analysis Method: 8082A | Date Collected: 04/23/2015 10:00

Extraction Method: 3510C | Date Extracted: 04/24/2015 12:57

Sample wt/vol: 1025(mL) | Date Analyzed: 04/27/2015 18:06

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-50 ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 244045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12672-29-6	PCB-1248	0.888		0.488	0.0673

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	73		10-150
877-09-8	Tetrachloro-m-xylene	88		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: SWMW-7A-GW-042315 Lab Sample ID: 490-77157-6

Matrix: Water Lab File ID: 042815hp37.008dat.d

Analysis Method: 8082A Date Collected: 04/23/2015 11:05

Extraction Method: 3510C Date Extracted: 04/24/2015 12:57

Sample wt/vol: 1020(mL) Date Analyzed: 04/28/2015 12:13

Con. Extract Vol.: 5(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 244295 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	4.90	U	4.90	0.627
11097-69-1	PCB-1254	4.90	U	4.90	0.0686

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: SWMW-7A-GW-042315 | Lab Sample ID: 490-77157-6

Matrix: Water | Lab File ID: 042815hp37.008dat.d

Analysis Method: 8082A | Date Collected: 04/23/2015 11:05

Extraction Method: 3510C | Date Extracted: 04/24/2015 12:57

Sample wt/vol: 1020(mL) | Date Analyzed: 04/28/2015 12:13

Con. Extract Vol.: 5(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RTX-50 ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 244295 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12672-29-6	PCB-1248	9.77		4.90	0.676

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	98		10-150
877-09-8	Tetrachloro-m-xylene	97		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: SWMW-8-GW-042315 Lab Sample ID: 490-77157-7

Matrix: Water Lab File ID: 042715hp37.032dat.d

Analysis Method: 8082A Date Collected: 04/23/2015 13:25

Extraction Method: 3510C Date Extracted: 04/24/2015 12:57

Sample wt/vol: 1040(mL) Date Analyzed: 04/27/2015 18:38

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 244045 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.481	U	0.481	0.0615
11097-69-1	PCB-1254	0.481	U	0.481	0.00673

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: SWMW-8-GW-042315 | Lab Sample ID: 490-77157-7

Matrix: Water | Lab File ID: 042715hp37.032dat.d

Analysis Method: 8082A | Date Collected: 04/23/2015 13:25

Extraction Method: 3510C | Date Extracted: 04/24/2015 12:57

Sample wt/vol: 1040(mL) | Date Analyzed: 04/27/2015 18:38

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-50 ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 244045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12672-29-6	PCB-1248	3.52		0.481	0.0663

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	81		10-150
877-09-8	Tetrachloro-m-xylene	81		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: SPRW-401-GW-042315 Lab Sample ID: 490-77157-8

Matrix: Water Lab File ID: 042815hp37.009dat.d

Analysis Method: 8082A Date Collected: 04/23/2015 13:55

Extraction Method: 3510C Date Extracted: 04/24/2015 12:57

Sample wt/vol: 1045(mL) Date Analyzed: 04/28/2015 12:29

Con. Extract Vol.: 5(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 244295 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	2.39	U	2.39	0.306
12672-29-6	PCB-1248	2.39	U	2.39	0.330
11097-69-1	PCB-1254	2.39	U	2.39	0.0335

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: SPRW-401-GW-042315 Lab Sample ID: 490-77157-8

Matrix: Water Lab File ID: 042815hp37.009dat.d

Analysis Method: 8082A Date Collected: 04/23/2015 13:55

Extraction Method: 3510C Date Extracted: 04/24/2015 12:57

Sample wt/vol: 1045(mL) Date Analyzed: 04/28/2015 12:29

Con. Extract Vol.: 5(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: RTX-50 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 244295 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	98		10-150
877-09-8	Tetrachloro-m-xylene	81		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: SDMW-3-GW-042315 Lab Sample ID: 490-77157-9

Matrix: Water Lab File ID: 042715hp37.034dat.d

Analysis Method: 8082A Date Collected: 04/23/2015 15:55

Extraction Method: 3510C Date Extracted: 04/24/2015 12:57

Sample wt/vol: 1020(mL) Date Analyzed: 04/27/2015 19:09

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 244045 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.490	U	0.490	0.0627
11097-69-1	PCB-1254	0.490	U	0.490	0.00686

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-77157-1

SDG No.:

Client Sample ID: SDMW-3-GW-042315 | Lab Sample ID: 490-77157-9

Matrix: Water | Lab File ID: 042715hp37.034dat.d

Analysis Method: 8082A | Date Collected: 04/23/2015 15:55

Extraction Method: 3510C | Date Extracted: 04/24/2015 12:57

Sample wt/vol: 1020(mL) | Date Analyzed: 04/27/2015 19:09

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-50 ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 244045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12672-29-6	PCB-1248	0.750		0.490	0.0676

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	75		10-150
877-09-8	Tetrachloro-m-xylene	89		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: EB-042315 Lab Sample ID: 490-77157-12

Matrix: Water Lab File ID: 042715hp37.035dat.d

Analysis Method: 8082A Date Collected: 04/23/2015 17:15

Extraction Method: 3510C Date Extracted: 04/24/2015 12:57

Sample wt/vol: 1025(mL) Date Analyzed: 04/27/2015 19:25

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 244045 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.488	U	0.488	0.0624
12672-29-6	PCB-1248	0.488	U	0.488	0.0673
11097-69-1	PCB-1254	0.488	U	0.488	0.00683

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: EB-042315 Lab Sample ID: 490-77157-12

Matrix: Water Lab File ID: 042715hp37.035dat.d

Analysis Method: 8082A Date Collected: 04/23/2015 17:15

Extraction Method: 3510C Date Extracted: 04/24/2015 12:57

Sample wt/vol: 1025(mL) Date Analyzed: 04/27/2015 19:25

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-50 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 244045 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	79		10-150
877-09-8	Tetrachloro-m-xylene	87		10-150

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2015 17:59 Calibration End Date: 04/15/2015 19:33 Calibration ID: 39698

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/2	041515hp37.015dat.d
Level 2	IC 490-241477/3	041515hp37.016dat.d
Level 3	IC 490-241477/4	041515hp37.017dat.d
Level 4	IC 490-241477/5	041515hp37.018dat.d
Level 5	ICIS 490-241477/6	041515hp37.019dat.d
Level 6	IC 490-241477/7	041515hp37.020dat.d
Level 7	IC 490-241477/8	041515hp37.021dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0225 0.0174	0.0210 0.0185	0.0204	0.0219	0.0207	Ave		0.0203				8.9		20.0			0.9900
PCB-1016 Peak 2	0.0422 0.0367	0.0429 0.0378	0.0418	0.0417	0.0397	Ave		0.0404				5.9		20.0			0.9900
PCB-1016 Peak 3	0.0110 0.0100	0.0115 0.0103	0.0113	0.0111	0.0105	Ave		0.0108				5.1		20.0			0.9900
PCB-1016 Peak 4	0.0166 0.0150	0.0169 0.0158	0.0165	0.0170	0.0161	Ave		0.0163				4.4		20.0			0.9900
PCB-1016 Peak 5	0.0591 0.0484	0.0580 0.0487	0.0542	0.0569	0.0524	Ave		0.0540				8.0		20.0			0.9900
PCB-1260 Peak 1	0.0566 0.0458	0.0563 0.0479	0.0538	0.0548	0.0498	Lin2	0.0002	0.0500							0.9950		0.9900
PCB-1260 Peak 2	0.0935 0.0711	0.0861 0.0746	0.0828	0.0856	0.0772	Lin2	0.0005	0.0771							0.9960		0.9900
PCB-1260 Peak 3	0.0768 0.0615	0.0718 0.0637	0.0699	0.0734	0.0665	Lin2	0.0003	0.0662							0.9960		0.9900
PCB-1260 Peak 4	0.0440 0.0448	0.0543 0.0468	0.0522	0.0537	0.0486	Lin2	0	0.0496							0.9910		0.9900
PCB-1260 Peak 5	0.1372 0.1030	0.1284 0.1078	0.1204	0.1231	0.1114	Lin2	0.0008	0.1115							0.9960		0.9900
1260 Res 1	+++++ +++++	+++++ +++++	+++++	+++++		None											
1260 Res 2	+++++ +++++	+++++ +++++	+++++	+++++		None											
1260 Res 3	+++++ +++++	+++++ +++++	+++++	+++++		None											
Tetrachloro-m-xylene	1.1118 1.0303	1.1592 1.0809	1.1399	1.1772	1.1076	Lin2	0.0001	1.1068							0.9970		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2015 17:59 Calibration End Date: 04/15/2015 19:33 Calibration ID: 39698

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
DCB Decachlorobiphenyl (Surr)	1.0676 0.7709	0.8692 0.8165	0.8259	0.8856	0.8225	Lin2	0.0007	0.8067							0.9960		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2015 17:59 Calibration End Date: 04/15/2015 19:33 Calibration ID: 39698

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/2	041515hp37.015dat.d
Level 2	IC 490-241477/3	041515hp37.016dat.d
Level 3	IC 490-241477/4	041515hp37.017dat.d
Level 4	IC 490-241477/5	041515hp37.018dat.d
Level 5	ICIS 490-241477/6	041515hp37.019dat.d
Level 6	IC 490-241477/7	041515hp37.020dat.d
Level 7	IC 490-241477/8	041515hp37.021dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	882 48474	1455 74182	5565	14571	28481	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 2	BNB	Ave	1654 102100	2968 151752	11417	27786	54561	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 3	BNB	Ave	430 27862	794 41113	3084	7430	14455	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 4	BNB	Ave	650 41759	1167 63237	4509	11361	22095	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 5	BNB	Ave	2314 134650	4011 195463	14810	37959	71971	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 1	BNB	Lin2	2215 127516	3892 191997	14689	36562	68405	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 2	BNB	Lin2	3663 197855	5953 299050	22635	57064	106024	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 3	BNB	Lin2	3008 171305	4967 255455	19098	48940	91241	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 4	BNB	Lin2	1723 124581	3755 187699	14253	35828	66734	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 5	BNB	Lin2	5373 286699	8876 432392	32890	82101	152946	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
1260 Res 1		None	+++++ +++++	+++++ +++++	+++++	+++++	77028	+++++ +++++	+++++ +++++	+++++	+++++	1.00
1260 Res 2		None	+++++ +++++	+++++ +++++	+++++	+++++	36961	+++++ +++++	+++++ +++++	+++++	+++++	1.00
1260 Res 3		None	+++++ +++++	+++++ +++++	+++++	+++++	45419	+++++ +++++	+++++ +++++	+++++	+++++	1.00
Tetrachloro-m-xylene	BNB	Lin2	4354 286796	8014 433540	31151	78503	152037	0.00300 0.200	0.00500 0.300	0.0200	0.0500	0.100
DCB Decachlorobiphenyl (Surr)	BNB	Lin2	4181 214583	6009 327495	22570	59060	112896	0.00300 0.200	0.00500 0.300	0.0200	0.0500	0.100

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2015 17:59 Calibration End Date: 04/15/2015 19:33 Calibration ID: 39698

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
None = No Calib Curve

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2015 17:59 Calibration End Date: 04/15/2015 19:33 Calibration ID: 39699

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/2	041515hp37.015dat.d
Level 2	IC 490-241477/3	041515hp37.016dat.d
Level 3	IC 490-241477/4	041515hp37.017dat.d
Level 4	IC 490-241477/5	041515hp37.018dat.d
Level 5	ICIS 490-241477/6	041515hp37.019dat.d
Level 6	IC 490-241477/7	041515hp37.020dat.d
Level 7	IC 490-241477/8	041515hp37.021dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0313 0.0292	0.0366 0.0307	0.0375	0.0343	0.0323	Ave		0.0331				9.4		20.0			0.9900
PCB-1016 Peak 2	0.0527 0.0448	0.0520 0.0446	0.0546	0.0518	0.0484	Ave		0.0499				7.9		20.0			0.9900
PCB-1016 Peak 3	0.0202 0.0188	0.0219 0.0201	0.0251	0.0215	0.0204	Ave		0.0212				9.6		20.0			0.9900
PCB-1016 Peak 4	0.0295 0.0243	0.0286 0.0254	0.0319	0.0285	0.0269	Ave		0.0279				9.3		20.0			0.9900
PCB-1016 Peak 5	0.0966 0.0809	0.0923 0.0809	0.0949	0.0915	0.0883	Ave		0.0894				7.1		20.0			0.9900
PCB-1260 Peak 1	0.1102 0.1050	0.1273 +++++	0.1209	0.1220	0.1189	Lin2	0	0.1176							0.9930		0.9900
PCB-1260 Peak 2	0.1113 0.1047	0.1177 0.0903	0.1147	0.1101	0.1101	Lin2	0.0003	0.1056							0.9920		0.9900
PCB-1260 Peak 3	0.1033 0.0901	0.1066 0.0799	0.0973	0.0969	0.0941	Lin2	0.0005	0.0911							0.9940		0.9900
PCB-1260 Peak 4	0.0545 0.0426	0.0553 0.0444	0.0478	0.0470	0.0448	Lin2	0.0004	0.0450							0.9970		0.9900
PCB-1260 Peak 5	0.2283 +++++	0.2262 +++++	0.2195	0.2304	0.2170	Lin2	0.0002	0.2219							0.9990		0.9900
1260 Res 1	+++++ +++++	+++++ +++++	+++++	+++++		None											
1260 Res 2	+++++ +++++	+++++ +++++	+++++	+++++		None											
1260 Res 3	+++++ +++++	+++++ +++++	+++++	+++++		None											
Tetrachloro-m-xylene	1.5908 +++++	1.8596 +++++	1.8822	1.8205	1.8426	Lin2	-0.001	1.8805							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2015 17:59 Calibration End Date: 04/15/2015 19:33 Calibration ID: 39699

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
DCB Decachlorobiphenyl (Surr)	2.1061 +++++	1.7450 +++++	1.7111	1.7773	1.6735	Lin2	0.0011	1.6731							0.9950		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2015 17:59 Calibration End Date: 04/15/2015 19:33 Calibration ID: 39699

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/2	041515hp37.015dat.d
Level 2	IC 490-241477/3	041515hp37.016dat.d
Level 3	IC 490-241477/4	041515hp37.017dat.d
Level 4	IC 490-241477/5	041515hp37.018dat.d
Level 5	ICIS 490-241477/6	041515hp37.019dat.d
Level 6	IC 490-241477/7	041515hp37.020dat.d
Level 7	IC 490-241477/8	041515hp37.021dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	7289 459610	14507 714216	58306	132236	250055	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 2	BNB	Ave	12277 704947	20640 1038901	84832	199586	375085	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 3	BNB	Ave	4710 295132	8678 468669	39077	82781	158333	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 4	BNB	Ave	6865 382387	11330 590302	49629	109770	208034	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1016 Peak 5	BNB	Ave	22526 1272406	36620 1883782	147536	352737	683901	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 1	BNB	Lin2	25679 1652182	50500 +++++	187871	470229	920592	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1260 Peak 2	BNB	Lin2	25935 1647138	46679 2102556	178191	424282	852565	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 3	BNB	Lin2	24069 1416779	42261 1860542	151200	373284	728587	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 4	BNB	Lin2	12698 670855	21943 1034622	74308	180991	347246	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1260 Peak 5	BNB	Lin2	53218 +++++	89695 +++++	341099	887947	1680105	0.0300 +++++	0.0500 +++++	0.200	0.500	1.00
1260 Res 1		None	+++++ +++++	+++++ +++++	+++++	+++++	1196664	+++++ +++++	+++++ +++++	+++++	+++++	1.00
1260 Res 2		None	+++++ +++++	+++++ +++++	+++++	+++++	262297	+++++ +++++	+++++ +++++	+++++	+++++	1.00
1260 Res 3		None	+++++ +++++	+++++ +++++	+++++	+++++	204209	+++++ +++++	+++++ +++++	+++++	+++++	1.00
Tetrachloro-m-xylene	BNB	Lin2	37078 +++++	73744 +++++	292522	701591	1426793	0.00300 +++++	0.00500 +++++	0.0200	0.0500	0.100
DCB Decachlorobiphenyl (Surr)	BNB	Lin2	49088 +++++	69198 +++++	265937	684960	1295843	0.00300 +++++	0.00500 +++++	0.0200	0.0500	0.100

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2015 17:59 Calibration End Date: 04/15/2015 19:33 Calibration ID: 39699

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
None = No Calib Curve

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2015 20:05 Calibration End Date: 04/15/2015 21:38 Calibration ID: 39704

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/10	041515hp37.023dat.d
Level 2	IC 490-241477/11	041515hp37.024dat.d
Level 3	IC 490-241477/12	041515hp37.025dat.d
Level 4	IC 490-241477/13	041515hp37.026dat.d
Level 5	ICIS 490-241477/14	041515hp37.027dat.d
Level 6	IC 490-241477/15	041515hp37.028dat.d
Level 7	IC 490-241477/16	041515hp37.029dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1221 Peak 1	0.0135 0.0098	0.0115 0.0107	0.0110	0.0107	0.0108	Lin2	0.0001	0.0104							0.9980		0.9900
PCB-1221 Peak 2	0.0306 0.0232	0.0282 0.0250	0.0272	0.0257	0.0262	Lin2	0.0002	0.0251							0.9980		0.9900
PCB-1221 Peak 3	0.0044 0.0034	0.0041 0.0038	0.0037	0.0037	0.0038	Lin2	0	0.0036							0.9990		0.9900
PCB-1254 Peak 1	0.0433 0.0338	0.0412 0.0365	0.0404	0.0371	0.0381	Lin2	0.0002	0.0367							0.9970		0.9900
PCB-1254 Peak 2	0.0762 0.0574	0.0717 0.0619	0.0699	0.0647	0.0653	Lin2	0.0004	0.0630							0.9960		0.9900
PCB-1254 Peak 3	0.0590 0.0452	0.0564 0.0487	0.0551	0.0505	0.0514	Lin2	0.0003	0.0495							0.9960		0.9900
PCB-1254 Peak 4	0.0550 0.0410	0.0521 0.0442	0.0508	0.0460	0.0465	Lin2	0.0003	0.0451							0.9960		0.9900
PCB-1254 Peak 5	0.0782 0.0597	0.0729 0.0642	0.0717	0.0666	0.0674	Lin2	0.0004	0.0650							0.9970		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2015 20:05 Calibration End Date: 04/15/2015 21:38 Calibration ID: 39704

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/10	041515hp37.023dat.d
Level 2	IC 490-241477/11	041515hp37.024dat.d
Level 3	IC 490-241477/12	041515hp37.025dat.d
Level 4	IC 490-241477/13	041515hp37.026dat.d
Level 5	ICIS 490-241477/14	041515hp37.027dat.d
Level 6	IC 490-241477/15	041515hp37.028dat.d
Level 7	IC 490-241477/16	041515hp37.029dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	BNB	Lin2	544 28777	812 43844	3051	7946	15300	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1221 Peak 2	BNB	Lin2	1231 68252	1992 102323	7562	19007	37048	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1221 Peak 3	BNB	Lin2	177 10098	287 15405	1028	2767	5325	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 1	BNB	Lin2	1741 99269	2910 149382	11230	27441	53806	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 2	BNB	Lin2	3065 168761	5062 253548	19437	47837	92334	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 3	BNB	Lin2	2372 132860	3983 199578	15303	37305	72624	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 4	BNB	Lin2	2213 120672	3678 180979	14109	34044	65771	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 5	BNB	Lin2	3144 175444	5148 263132	19921	49216	95283	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2015 20:05 Calibration End Date: 04/15/2015 21:38 Calibration ID: 39705

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/10	041515hp37.023dat.d
Level 2	IC 490-241477/11	041515hp37.024dat.d
Level 3	IC 490-241477/12	041515hp37.025dat.d
Level 4	IC 490-241477/13	041515hp37.026dat.d
Level 5	ICIS 490-241477/14	041515hp37.027dat.d
Level 6	IC 490-241477/15	041515hp37.028dat.d
Level 7	IC 490-241477/16	041515hp37.029dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1221 Peak 1	0.0277 0.0172	0.0237 0.0178	0.0211	0.0190	0.0190	Lin2	0.0003	0.0183							0.9970		0.9900
PCB-1221 Peak 2	0.0550 0.0394	0.0515 0.0406	0.0470	0.0446	0.0436	Lin2	0.0004	0.0423							0.9970		0.9900
PCB-1221 Peak 3	0.0072 0.0061	0.0076 0.0064	0.0067	0.0064	0.0065	Lin2	0	0.0064							0.9970		0.9900
PCB-1254 Peak 1	0.1012 0.0825	0.0964 0.0725	0.0915	0.0908	0.0883	Lin2	0.0006	0.0840							0.9930		0.9900
PCB-1254 Peak 2	0.1334 0.1001	0.1274 +++++	0.1260	0.1252	0.1227	Lin2	0.0005	0.1171							0.9910		0.9900
PCB-1254 Peak 3	0.1047 0.0880	0.0996 0.0764	0.0967	0.0965	0.0942	Lin2	0.0005	0.0893							0.9930		0.9900
PCB-1254 Peak 4	0.0652 0.0528	0.0620 0.0547	0.0586	0.0590	0.0562	Lin2	0.0003	0.0557							0.9990		0.9900
PCB-1254 Peak 5	0.1211 0.1020	0.1141 0.0884	0.1119	0.1116	0.1080	Lin2	0.0006	0.1031							0.9930		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2015 20:05 Calibration End Date: 04/15/2015 21:38 Calibration ID: 39705

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/10	041515hp37.023dat.d
Level 2	IC 490-241477/11	041515hp37.024dat.d
Level 3	IC 490-241477/12	041515hp37.025dat.d
Level 4	IC 490-241477/13	041515hp37.026dat.d
Level 5	ICIS 490-241477/14	041515hp37.027dat.d
Level 6	IC 490-241477/15	041515hp37.028dat.d
Level 7	IC 490-241477/16	041515hp37.029dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	BNB	Lin2	6361 275616	9320 420382	32876	74953	150472	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1221 Peak 2	BNB	Lin2	12649 631164	20213 956630	73220	175669	345120	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1221 Peak 3	BNB	Lin2	1659 98491	2982 150282	10489	25161	51598	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 1	BNB	Lin2	23265 1321886	37859 1709974	142523	357386	699277	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 2	BNB	Lin2	30676 1604553	49993 +++++	196254	492766	971816	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00
PCB-1254 Peak 3	BNB	Lin2	24088 1410216	39100 1802144	150638	379692	746518	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 4	BNB	Lin2	15003 847082	24341 1289086	91294	232268	445508	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1254 Peak 5	BNB	Lin2	27849 1634672	44790 2084059	174249	439184	855309	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2015 22:10 Calibration End Date: 04/15/2015 23:43 Calibration ID: 39710

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/18	041515hp37.031dat.d
Level 2	IC 490-241477/19	041515hp37.032dat.d
Level 3	IC 490-241477/20	041515hp37.033dat.d
Level 4	IC 490-241477/21	041515hp37.034dat.d
Level 5	ICIS 490-241477/22	041515hp37.035dat.d
Level 6	IC 490-241477/23	041515hp37.036dat.d
Level 7	IC 490-241477/24	041515hp37.037dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1232 Peak 1	0.0270 0.0202	0.0246 0.0207	0.0234	0.0233	0.0210	Lin2	0.0002	0.0214							0.9970		0.9900
PCB-1232 Peak 2	0.0186 0.0161	0.0192 0.0168	0.0182	0.0182	0.0165	Lin2	0.0001	0.0171							0.9970		0.9900
PCB-1232 Peak 3	0.0169 0.0143	0.0166 0.0143	0.0162	0.0152	0.0144	Lin2	0.0001	0.0147							0.9980		0.9900
PCB-1232 Peak 4	0.0252 0.0206	0.0238 0.0220	0.0228	0.0238	0.0212	Lin2	0.0001	0.0219							0.9970		0.9900
PCB-1232 Peak 5	0.0171 0.0140	0.0163 0.0146	0.0156	0.0155	0.0142	Lin2	0.0001	0.0146							0.9980		0.9900
PCB-1262 Peak 1	0.0771 0.0613	0.0723 0.0643	0.0702	0.0692	0.0627	Lin2	0.0004	0.0647							0.9980		0.9900
PCB-1262 Peak 2	0.0696 0.0551	0.0658 0.0578	0.0630	0.0623	0.0563	Lin2	0.0004	0.0582							0.9980		0.9900
PCB-1262 Peak 3	0.1508 0.1150	0.1404 0.1205	0.1318	0.1301	0.1175	Lin2	0.0009	0.1212							0.9980		0.9900
PCB-1262 Peak 4	0.0612 0.0514	0.0577 0.0543	0.0566	0.0564	0.0520	Lin2	0.0002	0.0536							0.9990		0.9900
PCB-1262 Peak 5	0.0499 0.0416	0.0477 0.0443	0.0465	0.0465	0.0426	Lin2	0.0002	0.0439							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2015 22:10 Calibration End Date: 04/15/2015 23:43 Calibration ID: 39710

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/18	041515hp37.031dat.d
Level 2	IC 490-241477/19	041515hp37.032dat.d
Level 3	IC 490-241477/20	041515hp37.033dat.d
Level 4	IC 490-241477/21	041515hp37.034dat.d
Level 5	ICIS 490-241477/22	041515hp37.035dat.d
Level 6	IC 490-241477/23	041515hp37.036dat.d
Level 7	IC 490-241477/24	041515hp37.037dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	BNB	Lin2	1132 58885	1777 87033	6661	16217	31411	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 2	BNB	Lin2	781 47008	1384 70336	5178	12617	24637	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 3	BNB	Lin2	707 41718	1197 59851	4607	10598	21508	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 4	BNB	Lin2	1058 60016	1718 92416	6479	16561	31775	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 5	BNB	Lin2	715 40914	1176 61293	4432	10767	21280	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 1	BNB	Lin2	3232 178836	5214 269806	19954	48121	93942	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 2	BNB	Lin2	2919 160670	4746 242735	17888	43272	84311	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 3	BNB	Lin2	6324 335141	10126 506050	37431	90402	175985	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 4	BNB	Lin2	2567 149867	4164 227950	16081	39198	77922	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 5	BNB	Lin2	2094 121158	3437 185915	13220	32310	63743	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2015 22:10 Calibration End Date: 04/15/2015 23:43 Calibration ID: 39711

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/18	041515hp37.031dat.d
Level 2	IC 490-241477/19	041515hp37.032dat.d
Level 3	IC 490-241477/20	041515hp37.033dat.d
Level 4	IC 490-241477/21	041515hp37.034dat.d
Level 5	ICIS 490-241477/22	041515hp37.035dat.d
Level 6	IC 490-241477/23	041515hp37.036dat.d
Level 7	IC 490-241477/24	041515hp37.037dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1232 Peak 1	0.0514 0.0347	0.0449 0.0351	0.0400	0.0384	0.0362	Lin2	0.0005	0.0360							0.9990		0.9900
PCB-1232 Peak 2	0.0459 0.0318	0.0402 0.0325	0.0360	0.0345	0.0329	Lin2	0.0004	0.0328							0.9990		0.9900
PCB-1232 Peak 3	0.0350 0.0281	0.0324 0.0297	0.0299	0.0280	0.0280	Lin2	0.0002	0.0284							0.9990		0.9900
PCB-1232 Peak 4	0.0439 0.0377	0.0435 0.0386	0.0400	0.0409	0.0390	Lin2	0.0002	0.0390							0.9990		0.9900
PCB-1232 Peak 5	0.0192 0.0157	0.0186 0.0163	0.0169	0.0164	0.0160	Lin2	0.0001	0.0161							0.9990		0.9900
PCB-1262 Peak 1	0.0693 0.0513	0.0586 0.0539	0.0539	0.0520	0.0509	Lin2	0.0005	0.0513							0.9990		0.9900
PCB-1262 Peak 2	0.1390 0.1089	0.1282 0.0898	0.1195	0.1183	0.1162	Lin2	0.0010	0.1086							0.9900		0.9900
PCB-1262 Peak 3	0.2672 +++++	0.2568 +++++	0.2465	0.2467	0.2274	Lin2	0.0009	0.2376							0.9990		0.9900
PCB-1262 Peak 4	0.2031 0.1625	0.1893 0.1332	0.1766	0.1757	0.1733	Lin2	0.0013	0.1616							0.9900		0.9900
PCB-1262 Peak 5	0.1046 0.0862	0.0966 0.0812	0.0887	0.0884	0.0862	Lin2	0.0006	0.0850							0.9990		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2015 22:10 Calibration End Date: 04/15/2015 23:43 Calibration ID: 39711

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/18	041515hp37.031dat.d
Level 2	IC 490-241477/19	041515hp37.032dat.d
Level 3	IC 490-241477/20	041515hp37.033dat.d
Level 4	IC 490-241477/21	041515hp37.034dat.d
Level 5	ICIS 490-241477/22	041515hp37.035dat.d
Level 6	IC 490-241477/23	041515hp37.036dat.d
Level 7	IC 490-241477/24	041515hp37.037dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	BNB	Lin2	12008 551775	17643 816630	63481	151763	292317	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 2	BNB	Lin2	10730 504408	15819 756839	57031	136482	266328	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 3	BNB	Lin2	8182 446147	12741 690975	47373	110748	226061	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 4	BNB	Lin2	10259 598512	17092 897883	63436	161566	314920	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1232 Peak 5	BNB	Lin2	4475 248897	7308 378546	26812	64712	129078	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 1	BNB	Lin2	16197 814910	23051 1255181	85438	205530	411076	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 2	BNB	Lin2	32472 1728499	50421 2090220	189484	467657	939114	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 3	BNB	Lin2	62428 +++++	100989 +++++	390973	974949	1838662	0.0300 +++++	0.0500 +++++	0.200	0.500	1.00
PCB-1262 Peak 4	BNB	Lin2	47441 2580126	74436 3102522	280071	694577	1400781	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1262 Peak 5	BNB	Lin2	24437 1368096	37994 1891770	140619	349232	697119	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2015 00:15 Calibration End Date: 04/16/2015 01:48 Calibration ID: 39716

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/26	041515hp37.039dat.d
Level 2	IC 490-241477/27	041515hp37.040dat.d
Level 3	IC 490-241477/28	041515hp37.041dat.d
Level 4	IC 490-241477/29	041515hp37.042dat.d
Level 5	ICIS 490-241477/30	041515hp37.043dat.d
Level 6	IC 490-241477/31	041515hp37.044dat.d
Level 7	IC 490-241477/32	041515hp37.045dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1242 Peak 1	0.0239 0.0227	0.0263 0.0226	0.0247	0.0243	0.0233	Lin2	0	0.0236							0.9970		0.9900
PCB-1242 Peak 2	0.0168 0.0163	0.0184 0.0165	0.0177	0.0177	0.0166	Lin2	0	0.0170							0.9970		0.9900
PCB-1242 Peak 3	0.0137 0.0130	0.0149 0.0130	0.0145	0.0140	0.0136	Lin2	0	0.0136							0.9970		0.9900
PCB-1242 Peak 4	0.0154 0.0141	0.0168 0.0142	0.0158	0.0156	0.0145	Lin2	0	0.0148							0.9960		0.9900
PCB-1242 Peak 5	0.0217 0.0200	0.0235 0.0199	0.0221	0.0221	0.0209	Lin2	0.0001	0.0210							0.9960		0.9900
PCB-1268 Peak 1	0.1544 0.1363	0.1719 0.1377	0.1542	0.1532	0.1449	Lin2	0.0006	0.1452							0.9940		0.9900
PCB-1268 Peak 2	0.1380 0.1278	0.1529 0.1303	0.1378	0.1391	0.1341	Lin2	0.0003	0.1341							0.9970		0.9900
PCB-1268 Peak 3	0.1175 0.1078	0.1297 0.1094	0.1171	0.1187	0.1133	Lin2	0.0003	0.1134							0.9960		0.9900
PCB-1268 Peak 4	0.0521 0.0484	0.0569 0.0487	0.0520	0.0531	0.0507	Lin2	0.0001	0.0507							0.9970		0.9900
PCB-1268 Peak 5	0.3574 0.3273	0.3891 0.3315	0.3572	0.3617	0.3435	Lin2	0.0009	0.3444							0.9970		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2015 00:15 Calibration End Date: 04/16/2015 01:48 Calibration ID: 39716

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/26	041515hp37.039dat.d
Level 2	IC 490-241477/27	041515hp37.040dat.d
Level 3	IC 490-241477/28	041515hp37.041dat.d
Level 4	IC 490-241477/29	041515hp37.042dat.d
Level 5	ICIS 490-241477/30	041515hp37.043dat.d
Level 6	IC 490-241477/31	041515hp37.044dat.d
Level 7	IC 490-241477/32	041515hp37.045dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	BNB	Lin2	1036 63506	1852 96091	6900	16960	33068	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 2	BNB	Lin2	728 45547	1297 69981	4948	12340	23643	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 3	BNB	Lin2	594 36428	1054 55204	4055	9773	19326	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 4	BNB	Lin2	668 39505	1185 60304	4394	10905	20650	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 5	BNB	Lin2	941 55804	1660 84682	6163	15434	29625	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 1	BNB	Lin2	6688 380901	12127 585632	42998	106870	205842	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 2	BNB	Lin2	5978 356955	10784 554003	38438	97018	190538	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 3	BNB	Lin2	5091 301167	9153 465358	32647	82832	160870	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 4	BNB	Lin2	2255 135248	4011 207273	14507	37051	72009	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 5	BNB	Lin2	15485 914558	27451 1409951	99619	252363	487864	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2015 00:15 Calibration End Date: 04/16/2015 01:48 Calibration ID: 39717

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/26	041515hp37.039dat.d
Level 2	IC 490-241477/27	041515hp37.040dat.d
Level 3	IC 490-241477/28	041515hp37.041dat.d
Level 4	IC 490-241477/29	041515hp37.042dat.d
Level 5	ICIS 490-241477/30	041515hp37.043dat.d
Level 6	IC 490-241477/31	041515hp37.044dat.d
Level 7	IC 490-241477/32	041515hp37.045dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1242 Peak 1	0.0520 0.0451	0.0556 0.0452	0.0473	0.0487	0.0471	Ave		0.0487				7.9		20.0			0.9900
PCB-1242 Peak 2	0.0322 0.0284	0.0321 0.0287	0.0288	0.0302	0.0294	Lin2	0.0001	0.0290							0.9990		0.9900
PCB-1242 Peak 3	0.0302 0.0249	0.0314 0.0258	0.0273	0.0276	0.0268	Lin2	0.0002	0.0263							0.9970		0.9900
PCB-1242 Peak 4	0.0319 0.0260	0.0320 0.0269	0.0277	0.0291	0.0283	Lin2	0.0002	0.0274							0.9980		0.9900
PCB-1242 Peak 5	0.0434 0.0367	0.0448 0.0378	0.0396	0.0401	0.0395	Lin2	0.0002	0.0386							0.9980		0.9900
PCB-1268 Peak 1	0.0698 0.0597	0.0804 0.0615	0.0625	0.0638	0.0625	Lin2	0.0004	0.0621							0.9920		0.9900
PCB-1268 Peak 2	0.2674 +++++	0.2999 +++++	0.2542	0.2663	0.2530	Lin2	0.0007	0.2601							0.9940		0.9900
PCB-1268 Peak 3	0.2254 +++++	0.2473 +++++	0.2136	0.2209	0.2173	Lin2	0.0005	0.2188							0.9960		0.9900
PCB-1268 Peak 4	0.1081 0.0965	0.1194 0.0833	0.0984	0.1013	0.1001	Lin2	0.0006	0.0958							0.9910		0.9900
PCB-1268 Peak 5	0.1519 0.1283	0.1668 +++++	0.1409	0.1464	0.1458	Lin2	0.0006	0.1406							0.9930		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2015 00:15 Calibration End Date: 04/16/2015 01:48 Calibration ID: 39717

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/26	041515hp37.039dat.d
Level 2	IC 490-241477/27	041515hp37.040dat.d
Level 3	IC 490-241477/28	041515hp37.041dat.d
Level 4	IC 490-241477/29	041515hp37.042dat.d
Level 5	ICIS 490-241477/30	041515hp37.043dat.d
Level 6	IC 490-241477/31	041515hp37.044dat.d
Level 7	IC 490-241477/32	041515hp37.045dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	BNB	Ave	12382 710950	21416 1081872	74810	192309	371912	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 2	BNB	Lin2	7654 448103	12352 687560	45629	119241	232605	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 3	BNB	Lin2	7190 392110	12079 615972	43139	109037	211746	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 4	BNB	Lin2	7587 409347	12326 643830	43756	114955	223632	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1242 Peak 5	BNB	Lin2	10313 578559	17253 903647	62600	158606	312367	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 1	BNB	Lin2	16602 940621	30961 1471768	98853	252161	493624	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 2	BNB	Lin2	63617 +++++	115499 +++++	402309	1052313	1998772	0.0300 +++++	0.0500 +++++	0.200	0.500	1.00
PCB-1268 Peak 3	BNB	Lin2	53617 +++++	95235 +++++	338048	872735	1716879	0.0300 +++++	0.0500 +++++	0.200	0.500	1.00
PCB-1268 Peak 4	BNB	Lin2	25719 1519758	45987 1992526	155647	400120	791132	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1268 Peak 5	BNB	Lin2	36132 2022173	64221 +++++	222905	578358	1151855	0.0300 2.00	0.0500 +++++	0.200	0.500	1.00

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2015 02:20 Calibration End Date: 04/16/2015 03:53 Calibration ID: 39722

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/34	041515hp37.047dat.d
Level 2	IC 490-241477/35	041515hp37.048dat.d
Level 3	IC 490-241477/36	041515hp37.049dat.d
Level 4	IC 490-241477/37	041515hp37.050dat.d
Level 5	ICIS 490-241477/38	041515hp37.051dat.d
Level 6	IC 490-241477/39	041515hp37.052dat.d
Level 7	IC 490-241477/40	041515hp37.053dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1248 Peak 1	0.0354 0.0326	0.0383 0.0318	0.0358	0.0331	0.0350	Lin2	0.0001	0.0336							0.9960		0.9900
PCB-1248 Peak 2	0.0216 0.0209	0.0237 0.0205	0.0222	0.0210	0.0222	Lin2	0	0.0214							0.9970		0.9900
PCB-1248 Peak 3	0.0419 0.0377	0.0456 0.0368	0.0420	0.0387	0.0405	Lin2	0.0002	0.0391							0.9950		0.9900
PCB-1248 Peak 4	0.0367 0.0345	0.0396 0.0337	0.0369	0.0354	0.0371	Lin2	0.0001	0.0356							0.9970		0.9900
PCB-1248 Peak 5	0.0342 0.0309	0.0353 0.0302	0.0334	0.0315	0.0330	Lin2	0.0001	0.0317							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2015 02:20 Calibration End Date: 04/16/2015 03:53 Calibration ID: 39722

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/34	041515hp37.047dat.d
Level 2	IC 490-241477/35	041515hp37.048dat.d
Level 3	IC 490-241477/36	041515hp37.049dat.d
Level 4	IC 490-241477/37	041515hp37.050dat.d
Level 5	ICIS 490-241477/38	041515hp37.051dat.d
Level 6	IC 490-241477/39	041515hp37.052dat.d
Level 7	IC 490-241477/40	041515hp37.053dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	BNB	Lin2	1534 91848	2682 136784	10177	24683	48996	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 2	BNB	Lin2	937 58935	1660 88258	6296	15657	31129	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 3	BNB	Lin2	1818 106365	3194 158049	11919	28840	56748	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 4	BNB	Lin2	1592 97435	2774 144881	10468	26406	52019	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 5	BNB	Lin2	1481 87137	2475 129719	9488	23535	46207	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Lin2 = Linear 1/conc^2 ISTD

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2015 02:20 Calibration End Date: 04/16/2015 03:53 Calibration ID: 39723

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/34	041515hp37.047dat.d
Level 2	IC 490-241477/35	041515hp37.048dat.d
Level 3	IC 490-241477/36	041515hp37.049dat.d
Level 4	IC 490-241477/37	041515hp37.050dat.d
Level 5	ICIS 490-241477/38	041515hp37.051dat.d
Level 6	IC 490-241477/39	041515hp37.052dat.d
Level 7	IC 490-241477/40	041515hp37.053dat.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1248 Peak 1	0.0671 0.0619	0.0711 0.0588	0.0674	0.0644	0.0662	Lin2	0.0002	0.0636							0.9970		0.9900
PCB-1248 Peak 2	0.0604 0.0561	0.0636 0.0563	0.0607	0.0577	0.0599	Lin2	0.0001	0.0581							0.9980		0.9900
PCB-1248 Peak 3	0.0788 0.0733	0.0830 0.0656	0.0792	0.0756	0.0782	Lin2	0.0002	0.0742							0.9950		0.9900
PCB-1248 Peak 4	0.0872 0.0806	0.0914 0.0713	0.0875	0.0832	0.0865	Lin2	0.0003	0.0815							0.9940		0.9900
PCB-1248 Peak 5	0.0815 0.0778	0.0872 0.0778	0.0830	0.0796	0.0833	Lin2	0.0001	0.0804							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-77157-1 Analy Batch No.: 241477

SDG No.:

Instrument ID: HP37 GC Column: RTX-50 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2015 02:20 Calibration End Date: 04/16/2015 03:53 Calibration ID: 39723

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 490-241477/34	041515hp37.047dat.d
Level 2	IC 490-241477/35	041515hp37.048dat.d
Level 3	IC 490-241477/36	041515hp37.049dat.d
Level 4	IC 490-241477/37	041515hp37.050dat.d
Level 5	ICIS 490-241477/38	041515hp37.051dat.d
Level 6	IC 490-241477/39	041515hp37.052dat.d
Level 7	IC 490-241477/40	041515hp37.053dat.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	BNB	Lin2	16050 993236	28115 1418750	106277	259852	517504	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 2	BNB	Lin2	14451 900441	25145 1358704	95683	232740	468103	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 3	BNB	Lin2	18851 1176469	32798 1583301	124890	304971	610873	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 4	BNB	Lin2	20853 1292585	36151 1720351	137975	335769	675522	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00
PCB-1248 Peak 5	BNB	Lin2	19496 1247677	34487 1877841	130887	321320	651052	0.0300 2.00	0.0500 3.00	0.200	0.500	1.00

Curve Type Legend:
Lin2 = Linear 1/conc^2 ISTD

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID (1): ICV 490-241477/9 Instrument ID (1): HP37

GC Column (1): RTX-5 ID: 0.32(mm) Date Analyzed (1): 04/15/2015 19:49

ANALYTE	RT	RESOLUTION (%)
PCB-1016		100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID (2): ICV 490-241477/9 Instrument ID (2): HP37

GC Column (2): RTX-50 ID: 0.32(mm) Date Analyzed (2): 04/15/2015 19:49

ANALYTE	RT	RESOLUTION (%)
PCB-1016		100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID (1): CCVIS 490-244045/2 Instrument ID (1): HP37

GC Column (1): RTX-5 ID: 0.32(mm) Date Analyzed (1): 04/27/2015 10:11

ANALYTE	RT	RESOLUTION (%)
PCB-1016		100.0
PCB-1260		100.0
Tetrachloro-m-xylene	2.04	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID (2): CCVIS 490-244045/2 Instrument ID (2): HP37

GC Column (2): RTX-50 ID: 0.32(mm) Date Analyzed (2): 04/27/2015 10:11

ANALYTE	RT	RESOLUTION (%)
PCB-1016		100.0
PCB-1260		100.0
Tetrachloro-m-xylene	2.04	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID (1): CCVIS 490-244295/2 Instrument ID (1): HP37

GC Column (1): RTX-5 ID: 0.32(mm) Date Analyzed (1): 04/28/2015 10:40

ANALYTE	RT	RESOLUTION (%)
PCB-1016		100.0
PCB-1260		100.0
Tetrachloro-m-xylene	2.04	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID (2): CCVIS 490-244295/2 Instrument ID (2): HP37

GC Column (2): RTX-50 ID: 0.32(mm) Date Analyzed (2): 04/28/2015 10:40

ANALYTE	RT	RESOLUTION (%)
PCB-1016		100.0
PCB-1260		100.0
Tetrachloro-m-xylene	2.04	100.0

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: ICV 490-241477/9 Calibration Date: 04/15/2015 19:49

Instrument ID: HP37 Calib Start Date: 04/15/2015 17:59

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/15/2015 19:33

Lab File ID: 041515hp37.022dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0203	0.0183		0.898	1.00	-10.2	20.0
PCB-1016 Peak 2	Ave	0.0404	0.0387		0.957	1.00	-4.3	20.0
PCB-1016 Peak 3	Ave	0.0108	0.0105		0.968	1.00	-3.2	20.0
PCB-1016 Peak 4	Ave	0.0163	0.0156		0.956	1.00	-4.4	20.0
PCB-1016 Peak 5	Ave	0.0540	0.0509		0.944	1.00	-5.6	20.0
PCB-1260 Peak 1	Lin2		0.0478		0.951	1.00	-4.9	20.0
PCB-1260 Peak 2	Lin2		0.0769		0.991	1.00	-0.9	20.0
PCB-1260 Peak 3	Lin2		0.0702		1.05	1.00	5.4	20.0
PCB-1260 Peak 4	Lin2		0.0417		0.841	1.00	-15.9	20.0
PCB-1260 Peak 5	Lin2		0.0962		0.855	1.00	-14.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: ICV 490-241477/9 Calibration Date: 04/15/2015 19:49

Instrument ID: HP37 Calib Start Date: 04/15/2015 17:59

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/15/2015 19:33

Lab File ID: 041515hp37.022dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.31	2.28	2.34
PCB-1016 Peak 2	2.60	2.57	2.63
PCB-1016 Peak 3	2.76	2.73	2.79
PCB-1016 Peak 4	2.79	2.76	2.82
PCB-1016 Peak 5	3.02	3.00	3.06
PCB-1260 Peak 1	4.94	4.91	4.97
PCB-1260 Peak 2	5.28	5.25	5.31
PCB-1260 Peak 3	5.63	5.60	5.66
PCB-1260 Peak 4	6.09	6.07	6.13
PCB-1260 Peak 5	6.50	6.47	6.53

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: ICV 490-241477/9 Calibration Date: 04/15/2015 19:49

Instrument ID: HP37 Calib Start Date: 04/15/2015 17:59

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/15/2015 19:33

Lab File ID: 041515hp37.022dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0331	0.0293		0.886	1.00	-11.4	20.0
PCB-1016 Peak 2	Ave	0.0499	0.0481		0.964	1.00	-3.6	20.0
PCB-1016 Peak 3	Ave	0.0212	0.0198		0.937	1.00	-6.3	20.0
PCB-1016 Peak 4	Ave	0.0279	0.0257		0.924	1.00	-7.6	20.0
PCB-1016 Peak 5	Ave	0.0894	0.0868		0.971	1.00	-2.9	20.0
PCB-1260 Peak 1	Lin2	0.1174	0.1105		0.940	1.00	-6.0	20.0
PCB-1260 Peak 2	Lin2		0.1129		1.07	1.00	6.6	20.0
PCB-1260 Peak 3	Lin2		0.0790		0.862	1.00	-13.8	20.0
PCB-1260 Peak 4	Lin2		0.0390		0.860	1.00	-14.0	20.0
PCB-1260 Peak 5	Lin2	0.2243	0.1873		0.843	1.00	-15.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: ICV 490-241477/9 Calibration Date: 04/15/2015 19:49

Instrument ID: HP37 Calib Start Date: 04/15/2015 17:59

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/15/2015 19:33

Lab File ID: 041515hp37.022dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.40	2.37	2.43
PCB-1016 Peak 2	2.74	2.71	2.77
PCB-1016 Peak 3	2.93	2.91	2.97
PCB-1016 Peak 4	2.97	2.94	3.00
PCB-1016 Peak 5	3.17	3.14	3.20
PCB-1260 Peak 1	5.53	5.50	5.56
PCB-1260 Peak 2	5.99	5.96	6.02
PCB-1260 Peak 3	6.50	6.47	6.53
PCB-1260 Peak 4	6.59	6.56	6.62
PCB-1260 Peak 5	6.83	6.80	6.86

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCVIS 490-244045/2 Calibration Date: 04/27/2015 10:11

Instrument ID: HP37 Calib Start Date: 04/15/2015 17:59

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/15/2015 19:33

Lab File ID: 042715hp37.002dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0203	0.0202		0.991	1.00	-0.9	20.0
PCB-1016 Peak 2	Ave	0.0404	0.0416		1.03	1.00	2.9	20.0
PCB-1016 Peak 3	Ave	0.0108	0.0110		1.02	1.00	1.5	20.0
PCB-1016 Peak 4	Ave	0.0163	0.0171		1.05	1.00	5.0	20.0
PCB-1016 Peak 5	Ave	0.0540	0.0536		0.994	1.00	-0.6	20.0
PCB-1260 Peak 1	Lin2		0.0550		1.10	1.00	9.5	20.0
PCB-1260 Peak 2	Lin2		0.0867		1.12	1.00	11.8	20.0
PCB-1260 Peak 3	Lin2		0.0734		1.10	1.00	10.3	20.0
PCB-1260 Peak 4	Lin2		0.0556		1.12	1.00	12.0	20.0
PCB-1260 Peak 5	Lin2		0.1288		1.15	1.00	14.8	20.0
Tetrachloro-m-xylene	Lin2		1.168		0.105	0.100	5.4	20.0
DCB Decachlorobiphenyl (Surr)	Lin2		0.9170		0.113	0.100	12.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCVIS 490-244045/2 Calibration Date: 04/27/2015 10:11

Instrument ID: HP37 Calib Start Date: 04/15/2015 17:59

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/15/2015 19:33

Lab File ID: 042715hp37.002dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.31	2.28	2.34
PCB-1016 Peak 2	2.60	2.57	2.63
PCB-1016 Peak 3	2.76	2.73	2.79
PCB-1016 Peak 4	2.79	2.76	2.82
PCB-1016 Peak 5	3.03	3.00	3.06
PCB-1260 Peak 1	4.95	4.92	4.98
PCB-1260 Peak 2	5.29	5.26	5.32
PCB-1260 Peak 3	5.64	5.61	5.67
PCB-1260 Peak 4	6.10	6.07	6.13
PCB-1260 Peak 5	6.50	6.47	6.53
Tetrachloro-m-xylene	2.04	2.01	2.07
DCB Decachlorobiphenyl (Surr)	8.36	8.33	8.39

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCVIS 490-244045/2 Calibration Date: 04/27/2015 10:11

Instrument ID: HP37 Calib Start Date: 04/15/2015 17:59

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/15/2015 19:33

Lab File ID: 042715hp37.002dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0331	0.0333		1.01	1.00	0.6	20.0
PCB-1016 Peak 2	Ave	0.0499	0.0472		0.946	1.00	-5.4	20.0
PCB-1016 Peak 3	Ave	0.0212	0.0212		1.00	1.00	0.1	20.0
PCB-1016 Peak 4	Ave	0.0279	0.0277		0.993	1.00	-0.7	20.0
PCB-1016 Peak 5	Ave	0.0894	0.0903		1.01	1.00	1.0	20.0
PCB-1260 Peak 1	Lin2	0.1174	0.1261		1.07	1.00	7.2	20.0
PCB-1260 Peak 2	Lin2		0.1168		1.10	1.00	10.3	20.0
PCB-1260 Peak 3	Lin2		0.1021		1.12	1.00	11.6	20.0
PCB-1260 Peak 4	Lin2		0.0484		1.07	1.00	6.8	20.0
PCB-1260 Peak 5	Lin2	0.2243	0.2317		1.04	1.00	4.4	20.0
Tetrachloro-m-xylene	Lin2	1.799	1.882		0.100	0.100	0.4	20.0
DCB Decachlorobiphenyl (Surr)	Lin2	1.803	1.825		0.109	0.100	8.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCVIS 490-244045/2 Calibration Date: 04/27/2015 10:11

Instrument ID: HP37 Calib Start Date: 04/15/2015 17:59

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/15/2015 19:33

Lab File ID: 042715hp37.002dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.40	2.37	2.43
PCB-1016 Peak 2	2.74	2.71	2.77
PCB-1016 Peak 3	2.94	2.91	2.97
PCB-1016 Peak 4	2.97	2.94	3.00
PCB-1016 Peak 5	3.17	3.14	3.20
PCB-1260 Peak 1	5.53	5.50	5.56
PCB-1260 Peak 2	5.99	5.96	6.02
PCB-1260 Peak 3	6.50	6.47	6.53
PCB-1260 Peak 4	6.59	6.56	6.62
PCB-1260 Peak 5	6.83	6.80	6.86
Tetrachloro-m-xylene	2.04	2.01	2.07
DCB Decachlorobiphenyl (Surr)	8.91	8.88	8.94

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/3 Calibration Date: 04/27/2015 10:27

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 042715hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 4	Ave	0.4816	0.0000			1.00	-100.0*	20.0
PCB-1221 Peak 5	Ave	0.0089	0.0000			1.00	-100.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/3 Calibration Date: 04/27/2015 10:27

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 042715hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 4	0.00	0.00	0.03
PCB-1221 Peak 5	0.00	0.00	0.03

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/3 Calibration Date: 04/27/2015 10:27

Instrument ID: HP37 Calib Start Date: 04/15/2015 20:05

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/15/2015 21:38

Lab File ID: 042715hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin2		0.0111		1.06	1.00	6.3	20.0
PCB-1221 Peak 2	Lin2		0.0270		1.07	1.00	6.8	20.0
PCB-1221 Peak 3	Lin2		0.0040		1.09	1.00	8.5	20.0
PCB-1254 Peak 1	Lin2		0.0401		1.08	1.00	8.4	20.0
PCB-1254 Peak 2	Lin2		0.0687		1.08	1.00	8.4	20.0
PCB-1254 Peak 3	Lin2		0.0547		1.10	1.00	9.8	20.0
PCB-1254 Peak 4	Lin2		0.0500		1.10	1.00	10.2	20.0
PCB-1254 Peak 5	Lin2		0.0728		1.11	1.00	11.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/3 Calibration Date: 04/27/2015 10:27

Instrument ID: HP37 Calib Start Date: 04/15/2015 20:05

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/15/2015 21:38

Lab File ID: 042715hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	2.16	2.13	2.19
PCB-1221 Peak 2	2.30	2.27	2.33
PCB-1221 Peak 3	3.03	3.00	3.06
PCB-1254 Peak 1	4.58	4.55	4.61
PCB-1254 Peak 2	4.73	4.70	4.76
PCB-1254 Peak 3	5.06	5.03	5.09
PCB-1254 Peak 4	5.28	5.25	5.31
PCB-1254 Peak 5	5.63	5.60	5.66

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/3 Calibration Date: 04/27/2015 10:27

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 042715hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 4	Ave	0.0355	0.0000			1.00	-100.0*	20.0
PCB-1221 Peak 5	Ave	0.0372	0.0000			1.00	-100.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/3 Calibration Date: 04/27/2015 10:27

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 042715hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 4	0.00	0.00	0.03
PCB-1221 Peak 5	0.00	0.00	0.03

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/3 Calibration Date: 04/27/2015 10:27

Instrument ID: HP37 Calib Start Date: 04/15/2015 20:05

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/15/2015 21:38

Lab File ID: 042715hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin2		0.0195		1.05	1.00	5.0	20.0
PCB-1221 Peak 2	Lin2		0.0445		1.04	1.00	4.3	20.0
PCB-1221 Peak 3	Lin2		0.0066		1.02	1.00	2.0	20.0
PCB-1254 Peak 1	Lin2		0.0901		1.07	1.00	6.6	20.0
PCB-1254 Peak 2	Lin2	0.1225	0.1318		1.12	1.00	12.1	20.0
PCB-1254 Peak 3	Lin2		0.0961		1.07	1.00	7.0	20.0
PCB-1254 Peak 4	Lin2		0.0572		1.02	1.00	2.1	20.0
PCB-1254 Peak 5	Lin2		0.0941		0.908	1.00	-9.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/3 Calibration Date: 04/27/2015 10:27

Instrument ID: HP37 Calib Start Date: 04/15/2015 20:05

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/15/2015 21:38

Lab File ID: 042715hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	2.24	2.21	2.27
PCB-1221 Peak 2	2.40	2.37	2.43
PCB-1221 Peak 3	3.17	3.14	3.20
PCB-1254 Peak 1	4.47	4.44	4.50
PCB-1254 Peak 2	5.03	5.00	5.06
PCB-1254 Peak 3	5.31	5.28	5.34
PCB-1254 Peak 4	5.53	5.50	5.56
PCB-1254 Peak 5	5.99	5.96	6.02

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/4 Calibration Date: 04/27/2015 10:42

Instrument ID: HP37 Calib Start Date: 04/15/2015 22:10

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/15/2015 23:43

Lab File ID: 042715hp37.004dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin2		0.0240		1.11	1.00	11.4	20.0
PCB-1232 Peak 2	Lin2		0.0190		1.11	1.00	11.0	20.0
PCB-1232 Peak 3	Lin2		0.0166		1.12	1.00	12.2	20.0
PCB-1232 Peak 4	Lin2		0.0248		1.13	1.00	12.7	20.0
PCB-1232 Peak 5	Lin2		0.0165		1.12	1.00	11.9	20.0
PCB-1262 Peak 1	Lin2		0.0780		1.20	1.00	19.8	20.0
PCB-1262 Peak 2	Lin2		0.0699		1.20	1.00	19.5	20.0
PCB-1262 Peak 3	Lin2		0.1476		1.21	1.00	21.0*	20.0
PCB-1262 Peak 4	Lin2		0.0650		1.21	1.00	20.7*	20.0
PCB-1262 Peak 5	Lin2		0.0534		1.21	1.00	21.2*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/4 Calibration Date: 04/27/2015 10:42

Instrument ID: HP37 Calib Start Date: 04/15/2015 22:10

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/15/2015 23:43

Lab File ID: 042715hp37.004dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.31	2.28	2.34
PCB-1232 Peak 2	2.60	2.57	2.63
PCB-1232 Peak 3	3.00	2.97	3.03
PCB-1232 Peak 4	3.03	3.00	3.06
PCB-1232 Peak 5	3.15	3.12	3.18
PCB-1262 Peak 1	5.78	5.75	5.81
PCB-1262 Peak 2	6.09	6.06	6.12
PCB-1262 Peak 3	6.50	6.47	6.53
PCB-1262 Peak 4	6.97	6.94	7.00
PCB-1262 Peak 5	7.71	7.68	7.74

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/4 Calibration Date: 04/27/2015 10:42

Instrument ID: HP37 Calib Start Date: 04/15/2015 22:10

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/15/2015 23:43

Lab File ID: 042715hp37.004dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin2		0.0396		1.09	1.00	8.9	20.0
PCB-1232 Peak 2	Lin2		0.0356		1.07	1.00	7.3	20.0
PCB-1232 Peak 3	Lin2		0.0314		1.10	1.00	9.9	20.0
PCB-1232 Peak 4	Lin2		0.0402		1.03	1.00	2.6	20.0
PCB-1232 Peak 5	Lin2		0.0170		1.05	1.00	5.1	20.0
PCB-1262 Peak 1	Lin2		0.0562		1.09	1.00	8.5	20.0
PCB-1262 Peak 2	Lin2		0.1289		1.18	1.00	17.8	20.0
PCB-1262 Peak 3	Lin2	0.2489	0.2479		1.04	1.00	3.9	20.0
PCB-1262 Peak 4	Lin2		0.1917		1.18	1.00	17.8	20.0
PCB-1262 Peak 5	Lin2		0.0951		1.11	1.00	11.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/4 Calibration Date: 04/27/2015 10:42

Instrument ID: HP37 Calib Start Date: 04/15/2015 22:10

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/15/2015 23:43

Lab File ID: 042715hp37.004dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.40	2.37	2.43
PCB-1232 Peak 2	2.74	2.71	2.77
PCB-1232 Peak 3	3.15	3.12	3.18
PCB-1232 Peak 4	3.17	3.14	3.20
PCB-1232 Peak 5	3.41	3.38	3.44
PCB-1262 Peak 1	6.18	6.15	6.21
PCB-1262 Peak 2	6.49	6.46	6.52
PCB-1262 Peak 3	6.83	6.80	6.86
PCB-1262 Peak 4	7.31	7.28	7.34
PCB-1262 Peak 5	8.11	8.08	8.14

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/5 Calibration Date: 04/27/2015 10:58

Instrument ID: HP37 Calib Start Date: 04/16/2015 00:15

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/16/2015 01:48

Lab File ID: 042715hp37.005dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin2		0.0248		1.05	1.00	5.2	20.0
PCB-1242 Peak 2	Lin2		0.0179		1.05	1.00	5.4	20.0
PCB-1242 Peak 3	Lin2		0.0144		1.05	1.00	5.3	20.0
PCB-1242 Peak 4	Lin2		0.0158		1.06	1.00	6.2	20.0
PCB-1242 Peak 5	Lin2		0.0224		1.06	1.00	6.3	20.0
PCB-1268 Peak 1	Lin2		0.1672		1.15	1.00	14.7	20.0
PCB-1268 Peak 2	Lin2		0.1524		1.13	1.00	13.4	20.0
PCB-1268 Peak 3	Lin2		0.1293		1.14	1.00	13.8	20.0
PCB-1268 Peak 4	Lin2		0.0578		1.14	1.00	13.8	20.0
PCB-1268 Peak 5	Lin2		0.3884		1.13	1.00	12.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/5 Calibration Date: 04/27/2015 10:58

Instrument ID: HP37 Calib Start Date: 04/16/2015 00:15

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/16/2015 01:48

Lab File ID: 042715hp37.005dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.15	3.12	3.18
PCB-1242 Peak 2	3.22	3.19	3.25
PCB-1242 Peak 3	3.33	3.30	3.36
PCB-1242 Peak 4	3.36	3.33	3.39
PCB-1242 Peak 5	3.56	3.53	3.59
PCB-1268 Peak 1	6.92	6.89	6.95
PCB-1268 Peak 2	6.97	6.94	7.00
PCB-1268 Peak 3	7.23	7.20	7.26
PCB-1268 Peak 4	7.71	7.68	7.74
PCB-1268 Peak 5	8.10	8.07	8.13

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/5 Calibration Date: 04/27/2015 10:58

Instrument ID: HP37 Calib Start Date: 04/16/2015 00:15

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/16/2015 01:48

Lab File ID: 042715hp37.005dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.0487	0.0488		1.00	1.00	0.2	20.0
PCB-1242 Peak 2	Lin2		0.0307		1.05	1.00	5.3	20.0
PCB-1242 Peak 3	Lin2		0.0282		1.06	1.00	6.4	20.0
PCB-1242 Peak 4	Lin2		0.0300		1.09	1.00	8.6	20.0
PCB-1242 Peak 5	Lin2		0.0415		1.07	1.00	7.0	20.0
PCB-1268 Peak 1	Lin2		0.0669		1.07	1.00	7.0	20.0
PCB-1268 Peak 2	Lin2	0.2682	0.2695		1.03	1.00	3.4	20.0
PCB-1268 Peak 3	Lin2	0.2249	0.2314		1.06	1.00	5.5	20.0
PCB-1268 Peak 4	Lin2		0.1052		1.09	1.00	9.2	20.0
PCB-1268 Peak 5	Lin2	0.1467	0.1267		0.897	1.00	-10.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/5 Calibration Date: 04/27/2015 10:58

Instrument ID: HP37 Calib Start Date: 04/16/2015 00:15

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/16/2015 01:48

Lab File ID: 042715hp37.005dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.30	3.27	3.33
PCB-1242 Peak 2	3.41	3.38	3.44
PCB-1242 Peak 3	3.50	3.47	3.53
PCB-1242 Peak 4	3.55	3.52	3.58
PCB-1242 Peak 5	3.79	3.76	3.82
PCB-1268 Peak 1	6.50	6.47	6.53
PCB-1268 Peak 2	7.37	7.34	7.40
PCB-1268 Peak 3	7.71	7.68	7.74
PCB-1268 Peak 4	8.10	8.07	8.13
PCB-1268 Peak 5	8.91	8.88	8.94

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/6 Calibration Date: 04/27/2015 11:14

Instrument ID: HP37 Calib Start Date: 04/16/2015 02:20

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/16/2015 03:53

Lab File ID: 042715hp37.006dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin2		0.0367		1.09	1.00	8.8	20.0
PCB-1248 Peak 2	Lin2		0.0239		1.11	1.00	11.2	20.0
PCB-1248 Peak 3	Lin2		0.0439		1.12	1.00	11.9	20.0
PCB-1248 Peak 4	Lin2		0.0392		1.10	1.00	10.1	20.0
PCB-1248 Peak 5	Lin2		0.0354		1.11	1.00	11.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/6 Calibration Date: 04/27/2015 11:14

Instrument ID: HP37 Calib Start Date: 04/16/2015 02:20

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/16/2015 03:53

Lab File ID: 042715hp37.006dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.56	3.53	3.59
PCB-1248 Peak 2	3.65	3.62	3.68
PCB-1248 Peak 3	4.02	3.99	4.05
PCB-1248 Peak 4	4.05	4.02	4.08
PCB-1248 Peak 5	4.27	4.24	4.30

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/6 Calibration Date: 04/27/2015 11:14

Instrument ID: HP37 Calib Start Date: 04/16/2015 02:20

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/16/2015 03:53

Lab File ID: 042715hp37.006dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin2		0.0683		1.07	1.00	7.1	20.0
PCB-1248 Peak 2	Lin2		0.0613		1.05	1.00	5.2	20.0
PCB-1248 Peak 3	Lin2		0.0802		1.08	1.00	7.8	20.0
PCB-1248 Peak 4	Lin2		0.0882		1.08	1.00	7.9	20.0
PCB-1248 Peak 5	Lin2		0.0851		1.06	1.00	5.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244045/6 Calibration Date: 04/27/2015 11:14

Instrument ID: HP37 Calib Start Date: 04/16/2015 02:20

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/16/2015 03:53

Lab File ID: 042715hp37.006dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.79	3.76	3.82
PCB-1248 Peak 2	3.92	3.89	3.95
PCB-1248 Peak 3	4.21	4.18	4.24
PCB-1248 Peak 4	4.26	4.23	4.29
PCB-1248 Peak 5	4.53	4.50	4.56

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCVIS 490-244295/2 Calibration Date: 04/28/2015 10:40

Instrument ID: HP37 Calib Start Date: 04/15/2015 17:59

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/15/2015 19:33

Lab File ID: 042815hp37.002dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0203	0.0201		0.988	1.00	-1.2	20.0
PCB-1016 Peak 2	Ave	0.0404	0.0415		1.03	1.00	2.6	20.0
PCB-1016 Peak 3	Ave	0.0108	0.0110		1.02	1.00	2.0	20.0
PCB-1016 Peak 4	Ave	0.0163	0.0172		1.06	1.00	5.9	20.0
PCB-1016 Peak 5	Ave	0.0540	0.0541		1.00	1.00	0.2	20.0
PCB-1260 Peak 1	Lin2		0.0558		1.11	1.00	11.2	20.0
PCB-1260 Peak 2	Lin2		0.0883		1.14	1.00	13.8	20.0
PCB-1260 Peak 3	Lin2		0.0747		1.12	1.00	12.2	20.0
PCB-1260 Peak 4	Lin2		0.0548		1.11	1.00	10.5	20.0
PCB-1260 Peak 5	Lin2		0.1361		1.21	1.00	21.3*	20.0
Tetrachloro-m-xylene	Lin2		1.165		0.105	0.100	5.1	20.0
DCB Decachlorobiphenyl (Surr)	Lin2		0.997		0.123	0.100	22.8*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCVIS 490-244295/2 Calibration Date: 04/28/2015 10:40

Instrument ID: HP37 Calib Start Date: 04/15/2015 17:59

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/15/2015 19:33

Lab File ID: 042815hp37.002dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.31	2.28	2.34
PCB-1016 Peak 2	2.60	2.57	2.63
PCB-1016 Peak 3	2.76	2.73	2.79
PCB-1016 Peak 4	2.79	2.76	2.82
PCB-1016 Peak 5	3.03	3.00	3.06
PCB-1260 Peak 1	4.95	4.92	4.98
PCB-1260 Peak 2	5.29	5.26	5.32
PCB-1260 Peak 3	5.64	5.61	5.67
PCB-1260 Peak 4	6.10	6.07	6.13
PCB-1260 Peak 5	6.50	6.47	6.53
Tetrachloro-m-xylene	2.04	2.01	2.07
DCB Decachlorobiphenyl (Surr)	8.36	8.33	8.39

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCVIS 490-244295/2 Calibration Date: 04/28/2015 10:40

Instrument ID: HP37 Calib Start Date: 04/15/2015 17:59

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/15/2015 19:33

Lab File ID: 042815hp37.002dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0331	0.0313		0.945	1.00	-5.5	20.0
PCB-1016 Peak 2	Ave	0.0499	0.0453		0.909	1.00	-9.1	20.0
PCB-1016 Peak 3	Ave	0.0212	0.0202		0.953	1.00	-4.7	20.0
PCB-1016 Peak 4	Ave	0.0279	0.0261		0.938	1.00	-6.2	20.0
PCB-1016 Peak 5	Ave	0.0894	0.0884		0.989	1.00	-1.1	20.0
PCB-1260 Peak 1	Lin2	0.1174	0.1278		1.09	1.00	8.7	20.0
PCB-1260 Peak 2	Lin2		0.1218		1.15	1.00	15.0	20.0
PCB-1260 Peak 3	Lin2		0.1055		1.15	1.00	15.3	20.0
PCB-1260 Peak 4	Lin2		0.0501		1.11	1.00	10.6	20.0
PCB-1260 Peak 5	Lin2	0.2243	0.2361		1.06	1.00	6.3	20.0
Tetrachloro-m-xylene	Lin2	1.799	1.783		0.0952	0.100	-4.8	20.0
DCB Decachlorobiphenyl (Surr)	Lin2	1.803	1.929		0.115	0.100	14.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCVIS 490-244295/2 Calibration Date: 04/28/2015 10:40

Instrument ID: HP37 Calib Start Date: 04/15/2015 17:59

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/15/2015 19:33

Lab File ID: 042815hp37.002dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.40	2.37	2.43
PCB-1016 Peak 2	2.74	2.71	2.77
PCB-1016 Peak 3	2.94	2.91	2.97
PCB-1016 Peak 4	2.97	2.94	3.00
PCB-1016 Peak 5	3.17	3.14	3.20
PCB-1260 Peak 1	5.53	5.50	5.56
PCB-1260 Peak 2	5.99	5.96	6.02
PCB-1260 Peak 3	6.49	6.46	6.52
PCB-1260 Peak 4	6.59	6.56	6.62
PCB-1260 Peak 5	6.83	6.80	6.86
Tetrachloro-m-xylene	2.04	2.01	2.07
DCB Decachlorobiphenyl (Surr)	8.91	8.88	8.94

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/3 Calibration Date: 04/28/2015 10:55

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 042815hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 4	Ave	0.4816	0.0000			1.00	-100.0*	20.0
PCB-1221 Peak 5	Ave	0.0089	0.0000			1.00	-100.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/3 Calibration Date: 04/28/2015 10:55

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 042815hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 4	0.00	0.00	0.03
PCB-1221 Peak 5	0.00	0.00	0.03

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/3 Calibration Date: 04/28/2015 10:55

Instrument ID: HP37 Calib Start Date: 04/15/2015 20:05

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/15/2015 21:38

Lab File ID: 042815hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin2		0.0110		1.05	1.00	5.3	20.0
PCB-1221 Peak 2	Lin2		0.0266		1.05	1.00	5.1	20.0
PCB-1221 Peak 3	Lin2		0.0039		1.07	1.00	6.7	20.0
PCB-1254 Peak 1	Lin2		0.0411		1.11	1.00	11.3	20.0
PCB-1254 Peak 2	Lin2		0.0706		1.12	1.00	11.5	20.0
PCB-1254 Peak 3	Lin2		0.0566		1.14	1.00	13.7	20.0
PCB-1254 Peak 4	Lin2		0.0515		1.14	1.00	13.6	20.0
PCB-1254 Peak 5	Lin2		0.0754		1.15	1.00	15.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/3 Calibration Date: 04/28/2015 10:55

Instrument ID: HP37 Calib Start Date: 04/15/2015 20:05

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/15/2015 21:38

Lab File ID: 042815hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	2.16	2.13	2.19
PCB-1221 Peak 2	2.30	2.27	2.33
PCB-1221 Peak 3	3.02	2.99	3.05
PCB-1254 Peak 1	4.58	4.55	4.61
PCB-1254 Peak 2	4.72	4.69	4.75
PCB-1254 Peak 3	5.06	5.03	5.09
PCB-1254 Peak 4	5.28	5.25	5.31
PCB-1254 Peak 5	5.63	5.60	5.66

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/3 Calibration Date: 04/28/2015 10:55

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 042815hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 4	Ave	0.0355	0.0000			1.00	-100.0*	20.0
PCB-1221 Peak 5	Ave	0.0372	0.0000			1.00	-100.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/3 Calibration Date: 04/28/2015 10:55

Instrument ID: HP37 Calib Start Date: 01/13/2015 12:21

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 01/13/2015 13:48

Lab File ID: 042815hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 4	0.00	0.00	0.03
PCB-1221 Peak 5	0.00	0.00	0.03

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/3 Calibration Date: 04/28/2015 10:55

Instrument ID: HP37 Calib Start Date: 04/15/2015 20:05

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/15/2015 21:38

Lab File ID: 042815hp37.003dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin2		0.0185		0.995	1.00	-0.5	20.0
PCB-1221 Peak 2	Lin2		0.0428		1.00	1.00	0.3	20.0
PCB-1221 Peak 3	Lin2		0.0066		1.03	1.00	3.0	20.0
PCB-1254 Peak 1	Lin2		0.0906		1.07	1.00	7.1	20.0
PCB-1254 Peak 2	Lin2	0.1225	0.1338		1.14	1.00	13.8	20.0
PCB-1254 Peak 3	Lin2		0.0982		1.09	1.00	9.4	20.0
PCB-1254 Peak 4	Lin2		0.0593		1.06	1.00	5.9	20.0
PCB-1254 Peak 5	Lin2		0.1060		1.02	1.00	2.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/3 Calibration Date: 04/28/2015 10:55

Instrument ID: HP37 Calib Start Date: 04/15/2015 20:05

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/15/2015 21:38

Lab File ID: 042815hp37.003dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	2.24	2.21	2.27
PCB-1221 Peak 2	2.40	2.37	2.43
PCB-1221 Peak 3	3.17	3.14	3.20
PCB-1254 Peak 1	4.47	4.44	4.50
PCB-1254 Peak 2	5.03	5.00	5.06
PCB-1254 Peak 3	5.31	5.28	5.34
PCB-1254 Peak 4	5.53	5.50	5.56
PCB-1254 Peak 5	5.99	5.96	6.02

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/4 Calibration Date: 04/28/2015 11:11

Instrument ID: HP37 Calib Start Date: 04/15/2015 22:10

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/15/2015 23:43

Lab File ID: 042815hp37.004dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin2		0.0231		1.07	1.00	7.2	20.0
PCB-1232 Peak 2	Lin2		0.0183		1.07	1.00	6.8	20.0
PCB-1232 Peak 3	Lin2		0.0160		1.08	1.00	8.3	20.0
PCB-1232 Peak 4	Lin2		0.0237		1.08	1.00	7.8	20.0
PCB-1232 Peak 5	Lin2		0.0157		1.07	1.00	7.0	20.0
PCB-1262 Peak 1	Lin2		0.0769		1.18	1.00	18.2	20.0
PCB-1262 Peak 2	Lin2		0.0692		1.18	1.00	18.3	20.0
PCB-1262 Peak 3	Lin2		0.1468		1.20	1.00	20.4*	20.0
PCB-1262 Peak 4	Lin2		0.0654		1.22	1.00	21.5*	20.0
PCB-1262 Peak 5	Lin2		0.0529		1.20	1.00	20.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/4 Calibration Date: 04/28/2015 11:11

Instrument ID: HP37 Calib Start Date: 04/15/2015 22:10

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/15/2015 23:43

Lab File ID: 042815hp37.004dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.30	2.27	2.33
PCB-1232 Peak 2	2.60	2.57	2.63
PCB-1232 Peak 3	3.00	2.97	3.03
PCB-1232 Peak 4	3.02	2.99	3.05
PCB-1232 Peak 5	3.15	3.12	3.18
PCB-1262 Peak 1	5.78	5.75	5.81
PCB-1262 Peak 2	6.09	6.06	6.12
PCB-1262 Peak 3	6.50	6.47	6.53
PCB-1262 Peak 4	6.97	6.94	7.00
PCB-1262 Peak 5	7.71	7.68	7.74

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/4 Calibration Date: 04/28/2015 11:11

Instrument ID: HP37 Calib Start Date: 04/15/2015 22:10

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/15/2015 23:43

Lab File ID: 042815hp37.004dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin2		0.0371		1.02	1.00	1.7	20.0
PCB-1232 Peak 2	Lin2		0.0333		1.00	1.00	0.4	20.0
PCB-1232 Peak 3	Lin2		0.0295		1.03	1.00	3.4	20.0
PCB-1232 Peak 4	Lin2		0.0378		0.966	1.00	-3.4	20.0
PCB-1232 Peak 5	Lin2		0.0161		0.997	1.00	-0.3	20.0
PCB-1262 Peak 1	Lin2		0.0555		1.07	1.00	7.2	20.0
PCB-1262 Peak 2	Lin2		0.1257		1.15	1.00	14.9	20.0
PCB-1262 Peak 3	Lin2	0.2489	0.2397		1.01	1.00	0.5	20.0
PCB-1262 Peak 4	Lin2		0.1881		1.16	1.00	15.5	20.0
PCB-1262 Peak 5	Lin2		0.0926		1.08	1.00	8.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/4 Calibration Date: 04/28/2015 11:11

Instrument ID: HP37 Calib Start Date: 04/15/2015 22:10

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/15/2015 23:43

Lab File ID: 042815hp37.004dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.40	2.37	2.43
PCB-1232 Peak 2	2.74	2.71	2.77
PCB-1232 Peak 3	3.15	3.12	3.18
PCB-1232 Peak 4	3.17	3.14	3.20
PCB-1232 Peak 5	3.41	3.38	3.44
PCB-1262 Peak 1	6.18	6.15	6.21
PCB-1262 Peak 2	6.49	6.46	6.52
PCB-1262 Peak 3	6.83	6.80	6.86
PCB-1262 Peak 4	7.31	7.28	7.34
PCB-1262 Peak 5	8.10	8.07	8.13

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/5 Calibration Date: 04/28/2015 11:26

Instrument ID: HP37 Calib Start Date: 04/16/2015 00:15

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/16/2015 01:48

Lab File ID: 042815hp37.005dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin2		0.0250		1.06	1.00	5.7	20.0
PCB-1242 Peak 2	Lin2		0.0180		1.06	1.00	5.7	20.0
PCB-1242 Peak 3	Lin2		0.0147		1.08	1.00	7.6	20.0
PCB-1242 Peak 4	Lin2		0.0153		1.03	1.00	2.9	20.0
PCB-1242 Peak 5	Lin2		0.0227		1.08	1.00	7.9	20.0
PCB-1268 Peak 1	Lin2		0.1690		1.16	1.00	16.0	20.0
PCB-1268 Peak 2	Lin2		0.1573		1.17	1.00	17.0	20.0
PCB-1268 Peak 3	Lin2		0.1312		1.15	1.00	15.4	20.0
PCB-1268 Peak 4	Lin2		0.0581		1.15	1.00	14.5	20.0
PCB-1268 Peak 5	Lin2		0.3906		1.13	1.00	13.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/5 Calibration Date: 04/28/2015 11:26

Instrument ID: HP37 Calib Start Date: 04/16/2015 00:15

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/16/2015 01:48

Lab File ID: 042815hp37.005dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.15	3.12	3.18
PCB-1242 Peak 2	3.22	3.19	3.25
PCB-1242 Peak 3	3.33	3.30	3.36
PCB-1242 Peak 4	3.36	3.33	3.39
PCB-1242 Peak 5	3.57	3.54	3.60
PCB-1268 Peak 1	6.92	6.89	6.95
PCB-1268 Peak 2	6.97	6.94	7.00
PCB-1268 Peak 3	7.23	7.20	7.26
PCB-1268 Peak 4	7.71	7.68	7.74
PCB-1268 Peak 5	8.10	8.07	8.13

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/5 Calibration Date: 04/28/2015 11:26

Instrument ID: HP37 Calib Start Date: 04/16/2015 00:15

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/16/2015 01:48

Lab File ID: 042815hp37.005dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.0487	0.0480		0.985	1.00	-1.5	20.0
PCB-1242 Peak 2	Lin2		0.0303		1.04	1.00	3.9	20.0
PCB-1242 Peak 3	Lin2		0.0279		1.05	1.00	5.3	20.0
PCB-1242 Peak 4	Lin2		0.0291		1.06	1.00	5.5	20.0
PCB-1242 Peak 5	Lin2		0.0409		1.06	1.00	5.5	20.0
PCB-1268 Peak 1	Lin2		0.0672		1.07	1.00	7.4	20.0
PCB-1268 Peak 2	Lin2	0.2682	0.2685		1.03	1.00	3.0	20.0
PCB-1268 Peak 3	Lin2	0.2249	0.2293		1.05	1.00	4.6	20.0
PCB-1268 Peak 4	Lin2		0.1047		1.09	1.00	8.7	20.0
PCB-1268 Peak 5	Lin2	0.1467	0.1349		0.956	1.00	-4.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/5 Calibration Date: 04/28/2015 11:26

Instrument ID: HP37 Calib Start Date: 04/16/2015 00:15

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/16/2015 01:48

Lab File ID: 042815hp37.005dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.30	3.27	3.33
PCB-1242 Peak 2	3.41	3.38	3.44
PCB-1242 Peak 3	3.50	3.47	3.53
PCB-1242 Peak 4	3.55	3.52	3.58
PCB-1242 Peak 5	3.79	3.76	3.82
PCB-1268 Peak 1	6.50	6.47	6.53
PCB-1268 Peak 2	7.37	7.34	7.40
PCB-1268 Peak 3	7.72	7.69	7.75
PCB-1268 Peak 4	8.11	8.08	8.14
PCB-1268 Peak 5	8.91	8.88	8.94

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/6 Calibration Date: 04/28/2015 11:42

Instrument ID: HP37 Calib Start Date: 04/16/2015 02:20

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/16/2015 03:53

Lab File ID: 042815hp37.006dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin2		0.0361		1.07	1.00	7.0	20.0
PCB-1248 Peak 2	Lin2		0.0232		1.08	1.00	8.3	20.0
PCB-1248 Peak 3	Lin2		0.0436		1.11	1.00	11.1	20.0
PCB-1248 Peak 4	Lin2		0.0393		1.10	1.00	10.4	20.0
PCB-1248 Peak 5	Lin2		0.0354		1.11	1.00	11.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/6 Calibration Date: 04/28/2015 11:42

Instrument ID: HP37 Calib Start Date: 04/16/2015 02:20

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 04/16/2015 03:53

Lab File ID: 042815hp37.006dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.56	3.53	3.59
PCB-1248 Peak 2	3.65	3.62	3.68
PCB-1248 Peak 3	4.02	3.99	4.05
PCB-1248 Peak 4	4.05	4.02	4.08
PCB-1248 Peak 5	4.27	4.24	4.30

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/6 Calibration Date: 04/28/2015 11:42

Instrument ID: HP37 Calib Start Date: 04/16/2015 02:20

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/16/2015 03:53

Lab File ID: 042815hp37.006dat.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin2		0.0672		1.05	1.00	5.4	20.0
PCB-1248 Peak 2	Lin2		0.0606		1.04	1.00	4.2	20.0
PCB-1248 Peak 3	Lin2		0.0795		1.07	1.00	6.8	20.0
PCB-1248 Peak 4	Lin2		0.0879		1.08	1.00	7.5	20.0
PCB-1248 Peak 5	Lin2		0.0849		1.05	1.00	5.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Lab Sample ID: CCV 490-244295/6 Calibration Date: 04/28/2015 11:42

Instrument ID: HP37 Calib Start Date: 04/16/2015 02:20

GC Column: RTX-50 ID: 0.32(mm) Calib End Date: 04/16/2015 03:53

Lab File ID: 042815hp37.006dat.d

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.79	3.76	3.82
PCB-1248 Peak 2	3.92	3.89	3.95
PCB-1248 Peak 3	4.21	4.18	4.24
PCB-1248 Peak 4	4.26	4.23	4.29
PCB-1248 Peak 5	4.53	4.50	4.56

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 490-243673/1-A

Matrix: Water Lab File ID: 042715hp37.027dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 04/24/2015 12:57

Sample wt/vol: 1000(mL) Date Analyzed: 04/27/2015 17:19

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 244045 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.500	U	0.500	0.0640
12672-29-6	PCB-1248	0.500	U	0.500	0.0690
11097-69-1	PCB-1254	0.500	U	0.500	0.00700

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 490-243673/1-A

Matrix: Water Lab File ID: 042715hp37.027dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 04/24/2015 12:57

Sample wt/vol: 1000(mL) Date Analyzed: 04/27/2015 17:19

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-50 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 244045 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	100		10-150
877-09-8	Tetrachloro-m-xylene	91		10-150

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 490-244045/7

Matrix: Water Lab File ID: 042715hp37.007dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/27/2015 11:29

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 244045 Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.0300	U	0.0300	0.00640
12672-29-6	PCB-1248	0.0300	U	0.0300	0.00690
11097-69-1	PCB-1254	0.0300	U	0.0300	0.00700

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)			
877-09-8	Tetrachloro-m-xylene			

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 490-244295/7

Matrix: Water Lab File ID: 042815hp37.007dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/28/2015 11:57

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 244295 Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
53469-21-9	PCB-1242	0.0300	U	0.0300	0.00640
12672-29-6	PCB-1248	0.0300	U	0.0300	0.00690
11097-69-1	PCB-1254	0.0300	U	0.0300	0.00700

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)			
877-09-8	Tetrachloro-m-xylene			

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 490-243673/2-A

Matrix: Water Lab File ID: 042715hp37.028dat.d

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 04/24/2015 12:57

Sample wt/vol: 1000(mL) Date Analyzed: 04/27/2015 17:35

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-50 ID: 0.32(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 244045 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	93		10-150
877-09-8	Tetrachloro-m-xylene	84		10-150

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Start Date: 04/15/2015 17:59

Analysis Batch Number: 241477 End Date: 04/16/2015 04:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 490-241477/2		04/15/2015 17:59	1	041515hp37.015dat.d	RTX-5 0.32(mm)
IC 490-241477/2		04/15/2015 17:59	1	041515hp37.015dat.d	RTX-50 0.32(mm)
IC 490-241477/3		04/15/2015 18:15	1	041515hp37.016dat.d	RTX-5 0.32(mm)
IC 490-241477/3		04/15/2015 18:15	1	041515hp37.016dat.d	RTX-50 0.32(mm)
IC 490-241477/4		04/15/2015 18:31	1	041515hp37.017dat.d	RTX-5 0.32(mm)
IC 490-241477/4		04/15/2015 18:31	1	041515hp37.017dat.d	RTX-50 0.32(mm)
IC 490-241477/5		04/15/2015 18:46	1	041515hp37.018dat.d	RTX-5 0.32(mm)
IC 490-241477/5		04/15/2015 18:46	1	041515hp37.018dat.d	RTX-50 0.32(mm)
ICIS 490-241477/6		04/15/2015 19:02	1	041515hp37.019dat.d	RTX-5 0.32(mm)
ICIS 490-241477/6		04/15/2015 19:02	1	041515hp37.019dat.d	RTX-50 0.32(mm)
IC 490-241477/7		04/15/2015 19:18	1	041515hp37.020dat.d	RTX-5 0.32(mm)
IC 490-241477/7		04/15/2015 19:18	1	041515hp37.020dat.d	RTX-50 0.32(mm)
IC 490-241477/8		04/15/2015 19:33	1	041515hp37.021dat.d	RTX-5 0.32(mm)
IC 490-241477/8		04/15/2015 19:33	1	041515hp37.021dat.d	RTX-50 0.32(mm)
ICV 490-241477/9		04/15/2015 19:49	1	041515hp37.022dat.d	RTX-5 0.32(mm)
ICV 490-241477/9		04/15/2015 19:49	1	041515hp37.022dat.d	RTX-50 0.32(mm)
IC 490-241477/10		04/15/2015 20:05	1	041515hp37.023dat.d	RTX-5 0.32(mm)
IC 490-241477/10		04/15/2015 20:05	1	041515hp37.023dat.d	RTX-50 0.32(mm)
IC 490-241477/11		04/15/2015 20:20	1	041515hp37.024dat.d	RTX-5 0.32(mm)
IC 490-241477/11		04/15/2015 20:20	1	041515hp37.024dat.d	RTX-50 0.32(mm)
IC 490-241477/12		04/15/2015 20:36	1	041515hp37.025dat.d	RTX-5 0.32(mm)
IC 490-241477/12		04/15/2015 20:36	1	041515hp37.025dat.d	RTX-50 0.32(mm)
IC 490-241477/13		04/15/2015 20:52	1	041515hp37.026dat.d	RTX-5 0.32(mm)
IC 490-241477/13		04/15/2015 20:52	1	041515hp37.026dat.d	RTX-50 0.32(mm)
ICIS 490-241477/14		04/15/2015 21:07	1	041515hp37.027dat.d	RTX-5 0.32(mm)
ICIS 490-241477/14		04/15/2015 21:07	1	041515hp37.027dat.d	RTX-50 0.32(mm)
IC 490-241477/15		04/15/2015 21:23	1	041515hp37.028dat.d	RTX-5 0.32(mm)
IC 490-241477/15		04/15/2015 21:23	1	041515hp37.028dat.d	RTX-50 0.32(mm)
IC 490-241477/16		04/15/2015 21:38	1	041515hp37.029dat.d	RTX-5 0.32(mm)
IC 490-241477/16		04/15/2015 21:38	1	041515hp37.029dat.d	RTX-50 0.32(mm)
ICV 490-241477/17		04/15/2015 21:54	1		RTX-5 0.32(mm)
ICV 490-241477/17		04/15/2015 21:54	1		RTX-50 0.32(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Start Date: 04/15/2015 17:59

Analysis Batch Number: 241477 End Date: 04/16/2015 04:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 490-241477/18		04/15/2015 22:10	1	041515hp37.031dat.d	RTX-5 0.32(mm)
IC 490-241477/18		04/15/2015 22:10	1	041515hp37.031dat.d	RTX-50 0.32(mm)
IC 490-241477/19		04/15/2015 22:25	1	041515hp37.032dat.d	RTX-5 0.32(mm)
IC 490-241477/19		04/15/2015 22:25	1	041515hp37.032dat.d	RTX-50 0.32(mm)
IC 490-241477/20		04/15/2015 22:41	1	041515hp37.033dat.d	RTX-5 0.32(mm)
IC 490-241477/20		04/15/2015 22:41	1	041515hp37.033dat.d	RTX-50 0.32(mm)
IC 490-241477/21		04/15/2015 22:56	1	041515hp37.034dat.d	RTX-5 0.32(mm)
IC 490-241477/21		04/15/2015 22:56	1	041515hp37.034dat.d	RTX-50 0.32(mm)
ICIS 490-241477/22		04/15/2015 23:12	1	041515hp37.035dat.d	RTX-5 0.32(mm)
ICIS 490-241477/22		04/15/2015 23:12	1	041515hp37.035dat.d	RTX-50 0.32(mm)
IC 490-241477/23		04/15/2015 23:28	1	041515hp37.036dat.d	RTX-5 0.32(mm)
IC 490-241477/23		04/15/2015 23:28	1	041515hp37.036dat.d	RTX-50 0.32(mm)
IC 490-241477/24		04/15/2015 23:43	1	041515hp37.037dat.d	RTX-5 0.32(mm)
IC 490-241477/24		04/15/2015 23:43	1	041515hp37.037dat.d	RTX-50 0.32(mm)
ICV 490-241477/25		04/15/2015 23:59	1		RTX-5 0.32(mm)
ICV 490-241477/25		04/15/2015 23:59	1		RTX-50 0.32(mm)
IC 490-241477/26		04/16/2015 00:15	1	041515hp37.039dat.d	RTX-5 0.32(mm)
IC 490-241477/26		04/16/2015 00:15	1	041515hp37.039dat.d	RTX-50 0.32(mm)
IC 490-241477/27		04/16/2015 00:30	1	041515hp37.040dat.d	RTX-5 0.32(mm)
IC 490-241477/27		04/16/2015 00:30	1	041515hp37.040dat.d	RTX-50 0.32(mm)
IC 490-241477/28		04/16/2015 00:46	1	041515hp37.041dat.d	RTX-5 0.32(mm)
IC 490-241477/28		04/16/2015 00:46	1	041515hp37.041dat.d	RTX-50 0.32(mm)
IC 490-241477/29		04/16/2015 01:01	1	041515hp37.042dat.d	RTX-5 0.32(mm)
IC 490-241477/29		04/16/2015 01:01	1	041515hp37.042dat.d	RTX-50 0.32(mm)
ICIS 490-241477/30		04/16/2015 01:17	1	041515hp37.043dat.d	RTX-5 0.32(mm)
ICIS 490-241477/30		04/16/2015 01:17	1	041515hp37.043dat.d	RTX-50 0.32(mm)
IC 490-241477/31		04/16/2015 01:33	1	041515hp37.044dat.d	RTX-5 0.32(mm)
IC 490-241477/31		04/16/2015 01:33	1	041515hp37.044dat.d	RTX-50 0.32(mm)
IC 490-241477/32		04/16/2015 01:48	1	041515hp37.045dat.d	RTX-5 0.32(mm)
IC 490-241477/32		04/16/2015 01:48	1	041515hp37.045dat.d	RTX-50 0.32(mm)
ICV 490-241477/33		04/16/2015 02:04	1		RTX-5 0.32(mm)
ICV 490-241477/33		04/16/2015 02:04	1		RTX-50 0.32(mm)
IC 490-241477/34		04/16/2015 02:20	1	041515hp37.047dat.d	RTX-5 0.32(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Start Date: 04/15/2015 17:59

Analysis Batch Number: 241477 End Date: 04/16/2015 04:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 490-241477/34		04/16/2015 02:20	1	041515hp37.047dat.d	RTX-50 0.32(mm)
IC 490-241477/35		04/16/2015 02:35	1	041515hp37.048dat.d	RTX-5 0.32(mm)
IC 490-241477/35		04/16/2015 02:35	1	041515hp37.048dat.d	RTX-50 0.32(mm)
IC 490-241477/36		04/16/2015 02:51	1	041515hp37.049dat.d	RTX-5 0.32(mm)
IC 490-241477/36		04/16/2015 02:51	1	041515hp37.049dat.d	RTX-50 0.32(mm)
IC 490-241477/37		04/16/2015 03:06	1	041515hp37.050dat.d	RTX-5 0.32(mm)
IC 490-241477/37		04/16/2015 03:06	1	041515hp37.050dat.d	RTX-50 0.32(mm)
ICIS 490-241477/38		04/16/2015 03:22	1	041515hp37.051dat.d	RTX-5 0.32(mm)
ICIS 490-241477/38		04/16/2015 03:22	1	041515hp37.051dat.d	RTX-50 0.32(mm)
IC 490-241477/39		04/16/2015 03:38	1	041515hp37.052dat.d	RTX-5 0.32(mm)
IC 490-241477/39		04/16/2015 03:38	1	041515hp37.052dat.d	RTX-50 0.32(mm)
IC 490-241477/40		04/16/2015 03:53	1	041515hp37.053dat.d	RTX-5 0.32(mm)
IC 490-241477/40		04/16/2015 03:53	1	041515hp37.053dat.d	RTX-50 0.32(mm)
ICV 490-241477/41		04/16/2015 04:09	1		RTX-5 0.32(mm)
ICV 490-241477/41		04/16/2015 04:09	1		RTX-50 0.32(mm)
ICB 490-241477/42		04/16/2015 04:24	1		RTX-5 0.32(mm)
ICB 490-241477/42		04/16/2015 04:24	1		RTX-50 0.32(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Start Date: 04/27/2015 10:11

Analysis Batch Number: 244045 End Date: 04/27/2015 19:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 490-244045/2		04/27/2015 10:11	1	042715hp37.002dat.d	RTX-5 0.32(mm)
CCVIS 490-244045/2		04/27/2015 10:11	1	042715hp37.002dat.d	RTX-50 0.32(mm)
CCV 490-244045/3		04/27/2015 10:27	1	042715hp37.003dat.d	RTX-5 0.32(mm)
CCV 490-244045/3		04/27/2015 10:27	1	042715hp37.003dat.d	RTX-50 0.32(mm)
CCV 490-244045/4		04/27/2015 10:42	1	042715hp37.004dat.d	RTX-5 0.32(mm)
CCV 490-244045/4		04/27/2015 10:42	1	042715hp37.004dat.d	RTX-50 0.32(mm)
CCV 490-244045/5		04/27/2015 10:58	1	042715hp37.005dat.d	RTX-5 0.32(mm)
CCV 490-244045/5		04/27/2015 10:58	1	042715hp37.005dat.d	RTX-50 0.32(mm)
CCV 490-244045/6		04/27/2015 11:14	1	042715hp37.006dat.d	RTX-5 0.32(mm)
CCV 490-244045/6		04/27/2015 11:14	1	042715hp37.006dat.d	RTX-50 0.32(mm)
CCB 490-244045/7		04/27/2015 11:29	1	042715hp37.007dat.d	RTX-5 0.32(mm)
CCB 490-244045/7		04/27/2015 11:29	1	042715hp37.007dat.d	RTX-50 0.32(mm)
ZZZZZ		04/27/2015 11:45	1		RTX-5 0.32(mm)
ZZZZZ		04/27/2015 11:45	1		RTX-50 0.32(mm)
ZZZZZ		04/27/2015 12:01	1		RTX-5 0.32(mm)
ZZZZZ		04/27/2015 12:01	1		RTX-50 0.32(mm)
ZZZZZ		04/27/2015 12:16	4		RTX-5 0.32(mm)
ZZZZZ		04/27/2015 12:16	4		RTX-50 0.32(mm)
ZZZZZ		04/27/2015 13:55	1		RTX-5 0.32(mm)
ZZZZZ		04/27/2015 13:55	1		RTX-50 0.32(mm)
ZZZZZ		04/27/2015 14:11	1		RTX-5 0.32(mm)
ZZZZZ		04/27/2015 14:11	1		RTX-50 0.32(mm)
ZZZZZ		04/27/2015 14:27	1		RTX-5 0.32(mm)
ZZZZZ		04/27/2015 14:27	1		RTX-50 0.32(mm)
ZZZZZ		04/27/2015 14:42	1		RTX-5 0.32(mm)
ZZZZZ		04/27/2015 14:42	1		RTX-50 0.32(mm)
ZZZZZ		04/27/2015 14:58	1		RTX-5 0.32(mm)
ZZZZZ		04/27/2015 14:58	1		RTX-50 0.32(mm)
ZZZZZ		04/27/2015 15:14	1		RTX-5 0.32(mm)
ZZZZZ		04/27/2015 15:14	1		RTX-50 0.32(mm)
MB 490-243673/1-A		04/27/2015 17:19	1	042715hp37.027dat.d	RTX-5 0.32(mm)
MB 490-243673/1-A		04/27/2015 17:19	1	042715hp37.027dat.d	RTX-50 0.32(mm)
LCS 490-243673/2-A		04/27/2015 17:35	1	042715hp37.028dat.d	RTX-5 0.32(mm)
LCS 490-243673/2-A		04/27/2015 17:35	1	042715hp37.028dat.d	RTX-50 0.32(mm)
490-77157-2	SPMW-12-GW-HS-042215	04/27/2015 17:51	1	042715hp37.029dat.d	RTX-5 0.32(mm)
490-77157-2	SPMW-12-GW-HS-042215	04/27/2015 17:51	1	042715hp37.029dat.d	RTX-50 0.32(mm)
490-77157-5	SWMW-7-GW-042315	04/27/2015 18:06	1	042715hp37.030dat.d	RTX-5 0.32(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Start Date: 04/27/2015 10:11

Analysis Batch Number: 244045 End Date: 04/27/2015 19:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
490-77157-5	SWMW-7-GW-042315	04/27/2015 18:06	1	042715hp37.030d at.d	RTX-50 0.32(mm)
ZZZZZ		04/27/2015 18:22	1		RTX-5 0.32(mm)
ZZZZZ		04/27/2015 18:22	1		RTX-50 0.32(mm)
490-77157-7	SWMW-8-GW-042315	04/27/2015 18:38	1	042715hp37.032d at.d	RTX-5 0.32(mm)
490-77157-7	SWMW-8-GW-042315	04/27/2015 18:38	1	042715hp37.032d at.d	RTX-50 0.32(mm)
ZZZZZ		04/27/2015 18:53	1		RTX-5 0.32(mm)
ZZZZZ		04/27/2015 18:53	1		RTX-50 0.32(mm)
490-77157-9	SDMW-3-GW-042315	04/27/2015 19:09	1	042715hp37.034d at.d	RTX-5 0.32(mm)
490-77157-9	SDMW-3-GW-042315	04/27/2015 19:09	1	042715hp37.034d at.d	RTX-50 0.32(mm)
490-77157-12	EB-042315	04/27/2015 19:25	1	042715hp37.035d at.d	RTX-5 0.32(mm)
490-77157-12	EB-042315	04/27/2015 19:25	1	042715hp37.035d at.d	RTX-50 0.32(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Instrument ID: HP37 Start Date: 04/28/2015 10:40

Analysis Batch Number: 244295 End Date: 04/28/2015 20:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 490-244295/2		04/28/2015 10:40	1	042815hp37.002dat.d	RTX-5 0.32(mm)
CCVIS 490-244295/2		04/28/2015 10:40	1	042815hp37.002dat.d	RTX-50 0.32(mm)
CCV 490-244295/3		04/28/2015 10:55	1	042815hp37.003dat.d	RTX-5 0.32(mm)
CCV 490-244295/3		04/28/2015 10:55	1	042815hp37.003dat.d	RTX-50 0.32(mm)
CCV 490-244295/4		04/28/2015 11:11	1	042815hp37.004dat.d	RTX-5 0.32(mm)
CCV 490-244295/4		04/28/2015 11:11	1	042815hp37.004dat.d	RTX-50 0.32(mm)
CCV 490-244295/5		04/28/2015 11:26	1	042815hp37.005dat.d	RTX-5 0.32(mm)
CCV 490-244295/5		04/28/2015 11:26	1	042815hp37.005dat.d	RTX-50 0.32(mm)
CCV 490-244295/6		04/28/2015 11:42	1	042815hp37.006dat.d	RTX-5 0.32(mm)
CCV 490-244295/6		04/28/2015 11:42	1	042815hp37.006dat.d	RTX-50 0.32(mm)
CCB 490-244295/7		04/28/2015 11:57	1	042815hp37.007dat.d	RTX-5 0.32(mm)
CCB 490-244295/7		04/28/2015 11:57	1	042815hp37.007dat.d	RTX-50 0.32(mm)
490-77157-6	SWMW-7A-GW-042315	04/28/2015 12:13	10	042815hp37.008dat.d	RTX-5 0.32(mm)
490-77157-6	SWMW-7A-GW-042315	04/28/2015 12:13	10	042815hp37.008dat.d	RTX-50 0.32(mm)
490-77157-8	SPRW-401-GW-042315	04/28/2015 12:29	5	042815hp37.009dat.d	RTX-5 0.32(mm)
490-77157-8	SPRW-401-GW-042315	04/28/2015 12:29	5	042815hp37.009dat.d	RTX-50 0.32(mm)
ZZZZZ		04/28/2015 13:54	1		RTX-5 0.32(mm)
ZZZZZ		04/28/2015 13:54	1		RTX-50 0.32(mm)
ZZZZZ		04/28/2015 14:09	1		RTX-5 0.32(mm)
ZZZZZ		04/28/2015 14:09	1		RTX-50 0.32(mm)
ZZZZZ		04/28/2015 14:25	1		RTX-5 0.32(mm)
ZZZZZ		04/28/2015 14:25	1		RTX-50 0.32(mm)
ZZZZZ		04/28/2015 14:40	1		RTX-5 0.32(mm)
ZZZZZ		04/28/2015 14:40	1		RTX-50 0.32(mm)
ZZZZZ		04/28/2015 14:56	1		RTX-5 0.32(mm)
ZZZZZ		04/28/2015 14:56	1		RTX-50 0.32(mm)
ZZZZZ		04/28/2015 19:22	10		RTX-5 0.32(mm)
ZZZZZ		04/28/2015 19:22	10		RTX-50 0.32(mm)
ZZZZZ		04/28/2015 19:37	10		RTX-5 0.32(mm)
ZZZZZ		04/28/2015 19:37	10		RTX-50 0.32(mm)
ZZZZZ		04/28/2015 20:24	10		RTX-5 0.32(mm)
ZZZZZ		04/28/2015 20:24	10		RTX-50 0.32(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Batch Number: 243673 Batch Start Date: 04/24/15 12:57 Batch Analyst: Trussell, Eric

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	OP_H2SO4 00013	OP_Hexane 00057	OP_MeCl2 00044
MB 490-243673/1		3510C, 8082A		7	1000 mL	5 mL	4 mL	4 mL	180 mL
LCS 490-243673/2		3510C, 8082A		7	1000 mL	5 mL	4 mL	4 mL	180 mL
490-77157-E-2	SPMW-12-GW-HS-042215	3510C, 8082A	T	7	1055 mL	5 mL	4 mL	4 mL	180 mL
490-77157-D-5	SWMW-7-GW-042315	3510C, 8082A	T	7	1025 mL	5 mL	4 mL	4 mL	180 mL
490-77157-D-6	SWMW-7A-GW-042315	3510C, 8082A	T	7	1020 mL	5 mL	4 mL	4 mL	180 mL
490-77157-E-7	SWMW-8-GW-042315	3510C, 8082A	T	7	1040 mL	5 mL	4 mL	4 mL	180 mL
490-77157-E-8	SPRW-401-GW-042315	3510C, 8082A	T	7	1045 mL	5 mL	4 mL	4 mL	180 mL
490-77157-E-9	SDMW-3-GW-042315	3510C, 8082A	T	7	1020 mL	5 mL	4 mL	4 mL	180 mL
490-77157-E-12	EB-042315	3510C, 8082A	T	7	1025 mL	5 mL	4 mL	4 mL	180 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_NaSO4 00035	OP_PCB_SPK 00028	OP_PPCB_SUR 00032	PCB_Cu_GRAN 00004		
MB 490-243673/1		3510C, 8082A		25 g		1 mL	0.2 g		
LCS 490-243673/2		3510C, 8082A		25 g	1 mL	1 mL	0.2 g		
490-77157-E-2	SPMW-12-GW-HS-042215	3510C, 8082A	T	25 g		1 mL	0.2 g		
490-77157-D-5	SWMW-7-GW-042315	3510C, 8082A	T	25 g		1 mL	0.2 g		
490-77157-D-6	SWMW-7A-GW-042315	3510C, 8082A	T	25 g		1 mL	0.2 g		
490-77157-E-7	SWMW-8-GW-042315	3510C, 8082A	T	25 g		1 mL	0.2 g		
490-77157-E-8	SPRW-401-GW-042315	3510C, 8082A	T	25 g		1 mL	0.2 g		
490-77157-E-9	SDMW-3-GW-042315	3510C, 8082A	T	25 g		1 mL	0.2 g		
490-77157-E-12	EB-042315	3510C, 8082A	T	25 g		1 mL	0.2 g		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Nashville Job No.: 490-77157-1

SDG No.:

Batch Number: 243673 Batch Start Date: 04/24/15 12:57 Batch Analyst: Trussell, Eric

Batch Method: 3510C Batch End Date:

Batch Notes	
Person's name who did the concentration	mah, bgd
Na2SO4 Lot Number	1984701
Oven, Bath or Block Temperature 1	75.1, 75.0, 75.4
Person's name who did the prep	et
Person's name who witnessed reagent drop	bkp

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Brown, Shali

From: Shannon.Olson@CH2M.com
Sent: Friday, April 24, 2015 1:23 PM
To: Brown, Shali
Cc: Monica.Schneider@ch2m.com; Angela.Barch@ch2m.com
Subject: RE: TestAmerica Sample Login Confirmation files from 490-77157 Schlumberger Sangamo OU-1 GW 2015

Shali,
I noticed a typo. Sample SGMW-12-GW-HS-042215 should be named SPMW-12-GW-HS-042215. Can you please make this correction?

Thanks!

Shannon Olson
Environmental Chemist
2020 SW 4th Avenue
Portland, OR 97201
Tel (503) 736-4111
Mobile (262) 388-3899
Fax (503) 736-2063
www.ch2mhill.com

Part-Time Hours:
Monday, Tuesday, Thursday, Friday – 8:30 to 1:30 Central Time
Wednesday – OFF

From: Brown, Shali [mailto:shali.brown@testamericainc.com]
Sent: Friday, April 24, 2015 12:41 PM
To: Furlow, Lillian/ATL; Olson, Shannon/PDX
Subject: TestAmerica Sample Login Confirmation files from 490-77157 Schlumberger Sangamo OU-1 GW 2015

Hello,

Attached please find the Sample Confirmation files for job 490-77157; Schlumberger Sangamo OU-1 GW 2015

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

SHALI BROWN
Project Manager II

TestAmerica Nashville
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 615.301.5031

Reference: [215930]
Attachments: 4

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-77157 Chain of Custody

Cooler Received/Opened On 4/24/2015 @ 0830

1. Tracking # 3035 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID 17960357

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 / 1 Back

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) _____

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 # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) ELA

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) ELA

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) ELA

I certify that I attached a label with the unique LIMS number to each container (intial) ELA

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO)...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LE-1
End of Form

Revised 11/28/12
04/30/2015

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Loc: 490
77157
#1
A

Cooler Received/Opened On: 4/24/2015 @0830

1. Tracking # 9774 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 14740456

2. Temperature of rep. sample or temp blank when opened: 0.5 *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: 2 Front/Back

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) H

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 # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) ELA

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) ELA

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) ELA

I certify that I attached a label with the unique LIMS number to each container (intial) ELA

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO)..#_____

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

04/30/2015

Client Information	Sampler: M. Davenport	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 490-37948-12552.3
Client Contact: Lillian Furlow	Phone: 404-432-3138	E-Mail: shali.brown@testamericainc.com		Page: 1 of 2
Company: CH2M Hill, Inc.				Job #:
Address: Embassy Row 6600 Peachtree Dunwoody Road Building 400 - St	Due Date Requested:			
City: Atlanta	TAT Requested (days): ~~Level III - Standard TAT~~ 5Day TAT			
State, Zip: GA, 30328				
Phone:	PO #: (contract 472789-10001)			
Email: lillian.furlow@ch2m.com	WO #: 653749.15.OU.MN			
Project Name: Sangamo Weston Annual 2015	Project #: 49005908			
Site: Plant 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 - Na2S2SO3
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) Custom List - 6 compounds	8082A - Standard PCBs (1016-1260)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N		
SGMW-8-GW-HS-042215	4/22/15	1305	G	W			X			
SPMW-12-GW-HS-042215	4/22/15	1335					X	X		
MW-7-GW-HS-042215	4/22/15	1435					X			
MW-6-GW-HS-042215	4/22/15	1500					X			
SWMW-7-GW-042315	4/23/15	1000					X	X		
SWMW-7A-GW-042315	4/23/15	1105					X	X		
SWMW-8-GW-042315	4/23/15	1326					X	X		
SPRW-401-GW-042315	4/23/15	1356					X	X		
SDMW-3-GW-042315	4/23/15	1555					X	X		
SPMW-21-042315	4/23/15	1635					X			
SPMW-24-042315	4/23/15	1700					X			

Loc: 490
77157

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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: 1,1-DCE; cis and trans 1,2-DCE; TCE; PCE; Vinyl chloride

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/23/15 - 1835			4-24-15 830	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, 0.5

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

04/30/2015

Client Information	Sampler: M. Davenport	Lab PM: Brown, Shali	Carrier Tracking No(s).	COC No: 490-37948-12552.3
Client Contact: Lillian Furlow	Phone: 404-432-3138	E-Mail: shali.brown@testamericainc.com		Page: 2 of 2
Company: CH2M Hill, Inc.		Analysis Requested		Job #:
Address: Embassy Row 6600 Peachtree Dunwoody Road Building 400 - Su	Due Date Requested:			Preservation Codes:
City: Atlanta	TAT Requested (days): ~~Level III - Standard TAT~~ 5 Day TAT			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: GA, 30328				
Phone:	PO #: (contract 472789-10001)			Other:
Email: lillian.furlow@ch2m.com	WO #: 653749.15.OU.MN			
Project Name: Sangamo Weston Annual 2015	Project #: 49005908			
Site: Plant 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)	Perform MS/MSD (Yes or No)	8260B - (MOD) Custom List - 6 compounds	8082A - Standard PCBs (1016-1260)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N		
EB-042315	4/23/15	1715	G	W			X	X		
Trip Blank	—	—	—	—			X			

Loc: 490
77157

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements: 1,1-DCE; cis and trans 1,2-DCE; TCE; PCE; Vinyl chloride

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
M. Davenport	4/23/15 1835			4-24-15 830	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, 0.5

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GSPA (770) 604-9095
OW-BLDG. 400
PEACHTREE DUNWOODY RD
ATLANTA, GA 303286773
UNITED STATES US

SHIP DATE: 23APR15
ACTWGT: 54.5 LB
CAD: /POS1601
DIMS: 22x15x13 IN
BILL SENDER

Part # 156297-435 RIT2 02/15

TO SHALI BROWN
TESTAMERICA ANALYTICAL TESTING
2960 FOSTER CREIGHTON DR

NASHVILLE TN 37204
(615) 726-0177 REF:
INV:
PO: DEPT:

FedEx Express
E

J151215022301

1 of 2
TRK# 0200 8032 7395 9774
MASTER
NA RNCA

FRI - 24 APR 10:30A
PRIORITY OVERNIGHT
37204
TN-US BNA

ORIGIN ID:GSPA (770) 604-9095
CH2M HILL
EMBASSY ROW-BLDG. 400
6600 PEACHTREE DUNWOODY RD
ATLANTA, GA 303286773
UNITED STATES US

SHIP DATE: 23APR15
ACTWGT: 55.8 LB
CAD: /POS1601
DIMS: 22x15x13 IN
BILL SENDER

Part # 156297-435 RIT2 02/15

TO SHALI BROWN
TESTAMERICA ANALYTICAL TESTING
2960 FOSTER CREIGHTON DR

NASHVILLE TN 37204
(615) 726-0177 REF:
INV:
PO: DEPT:

FedEx Express
E

J151215022301

2 of 2
MPS# 0681 7805 4973 3035
Mstr# 8032 7395 9774
NA RNCA

FRI - 24 APR 10:30A
PRIORITY OVERNIGHT
0200
37204
TN-US BNA

Login Sample Receipt Checklist

Client: CH2M Hill, Inc.

Job Number: 490-77157-1

Login Number: 77157

List Source: TestAmerica Nashville

List Number: 1

Creator: Abernathy, Eric

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.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 490-78053-1

Job Description: Schlumberger Sangamo OU-1

For:
CH2M Hill, Inc.
300 Hunter Avenue
Suite 305
St Louis, MO 63124

Attention: Monica Schneider

Approved for release.
Shali Brown
Project Manager II
5/12/2015 2:53 PM

Shali Brown, Project Manager II
2960 Foster Creighton Drive, Nashville, TN, 37204
(615)301-5031
shali.brown@testamericainc.com
05/12/2015

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CASE NARRATIVE

Client: CH2M Hill, Inc.

Project: Schlumberger Sangamo OU-1

Report Number: 490-78053-1

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

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

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

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 05/08/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.0 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples SPMW-7-GW-HS-050715 (490-78053-4), BRMW-04-GW-HS-050715 (490-78053-8), BRMW-02-GW-HS-050715 (490-78053-9), BRMW-02-GW-HS-050715-FD (490-78053-10), BRMW-11-GW-HS-050715 (490-78053-11) and TB050715 (490-78053-12) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/08/2015 and 05/10/2015.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 247169

Sample BRMW-11-GW-HS-050715 (490-78053-11)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

TOTAL METALS (ICP)

Samples SHMW-2-GW-HS-050615 (490-78053-1), SPMW-11-GW-HS-050715 (490-78053-2), SHMW-3-GW-HS-050715 (490-78053-5), SPMW-12-GW-HS-050715 (490-78053-6) and SPMW-12-GW-HS-050715-FD (490-78053-7) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/08/2015 and analyzed on 05/10/2015.

Sodium was detected in method blank MB 490-246913/1-A 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. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Instrument ID: HP36 Analysis Batch Number: 246484

Lab Sample ID: STD 490-246484/11 IC Client Sample ID:

Date Analyzed: 05/07/15 17:23 Lab File ID: 050715-011.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.95	Wrong peak	himelickm	05/08/15 10:39

SAMPLE SUMMARY

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
490-78053-1	SHMW-2-GW-HS-050615	Water	05/06/2015 1605	05/08/2015 0900
490-78053-2	SPMW-11-GW-HS-050715	Water	05/07/2015 0810	05/08/2015 0900
490-78053-4	SPMW-7-GW-HS-050715	Water	05/07/2015 1055	05/08/2015 0900
490-78053-5	SHMW-3-GW-HS-050715	Water	05/07/2015 1135	05/08/2015 0900
490-78053-5MS	SHMW-3-GW-HS-050715	Water	05/07/2015 1135	05/08/2015 0900
490-78053-5MSD	SHMW-3-GW-HS-050715	Water	05/07/2015 1135	05/08/2015 0900
490-78053-6	SPMW-12-GW-HS-050715	Water	05/07/2015 1250	05/08/2015 0900
490-78053-7	SPMW-12-GW-HS-050715-FD	Water	05/07/2015 1250	05/08/2015 0900
490-78053-8	BRMW-04-GW-HS-050715	Water	05/07/2015 1515	05/08/2015 0900
490-78053-9	BRMW-02-GW-HS-050715	Water	05/07/2015 1700	05/08/2015 0900
490-78053-10	BRMW-02-GW-HS-050715-FD	Water	05/07/2015 1700	05/08/2015 0900
490-78053-11	BRMW-11-GW-HS-050715	Water	05/07/2015 1735	05/08/2015 0900
490-78053-12TB	TB050715	Water	05/06/2015 0001	05/08/2015 0900

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-78053-1	**SHMW-2-GW-HS-050615**					
Sodium		8.21	B	1.00	mg/L	6010C
490-78053-2	**SPMW-11-GW-HS-050715**					
Sodium		3.08	B	1.00	mg/L	6010C
490-78053-4	**SPMW-7-GW-HS-050715**					
1,1-Dichloroethene		0.819	J	1.00	ug/L	8260B
cis-1,2-Dichloroethene		4.72		1.00	ug/L	8260B
Tetrachloroethene		22.6		1.00	ug/L	8260B
Trichloroethene		71.7		1.00	ug/L	8260B
490-78053-5	**SHMW-3-GW-HS-050715**					
Sodium		7.52	B	1.00	mg/L	6010C
490-78053-6	**SPMW-12-GW-HS-050715**					
Sodium		4.90	B	1.00	mg/L	6010C
490-78053-7	**SPMW-12-GW-HS-050715-FD**					
Sodium		4.74	B	1.00	mg/L	6010C
490-78053-8	**BRMW-04-GW-HS-050715**					
Tetrachloroethene		7.48		1.00	ug/L	8260B
490-78053-9	**BRMW-02-GW-HS-050715**					
cis-1,2-Dichloroethene		1.17		1.00	ug/L	8260B
Tetrachloroethene		59.3		1.00	ug/L	8260B
Trichloroethene		140		1.00	ug/L	8260B
490-78053-10	**BRMW-02-GW-HS-050715-FD**					
cis-1,2-Dichloroethene		1.11		1.00	ug/L	8260B
Tetrachloroethene		58.9		1.00	ug/L	8260B
Trichloroethene		142		1.00	ug/L	8260B

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-78053-11	**BRMW-11-GW-HS-050715**					
1,1-Dichloroethene		0.514	J	1.00	ug/L	8260B
cis-1,2-Dichloroethene		40.7		1.00	ug/L	8260B
Tetrachloroethene		1420		20.0	ug/L	8260B
Trichloroethene		2150		20.0	ug/L	8260B

METHOD SUMMARY

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL NSH	SW846 8260B	
Purge and Trap	TAL NSH		SW846 5030B
Metals (ICP)	TAL NSH	SW846 6010C	
Preparation, Total Metals	TAL NSH		SW846 3010A

Lab References:

TAL NSH = TestAmerica Nashville

Method References:

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

METHOD / ANALYST SUMMARY

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Method	Analyst	Analyst ID
SW846 8260B	McMillin, Sandra	SLM
SW846 8260B	Phakdee, Ruthaiwan	RP
SW846 6010C	Nelson, Alex D	ADN

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Client Sample ID: SPMW-7-GW-HS-050715

Lab Sample ID: 490-78053-4 Date Sampled: 05/07/2015 1055
Client Matrix: Water Date Received: 05/08/2015 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-246854	Instrument ID:	HP36
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	050815-010.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	05/08/2015 1502			Final Weight/Volume:	10 mL
Prep Date:	05/08/2015 1502				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1-Dichloroethene	0.819	J	0.250	1.00
cis-1,2-Dichloroethene	4.72		0.210	1.00
Tetrachloroethene	22.6		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	71.7		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Client Sample ID: **BRMW-04-GW-HS-050715**

Lab Sample ID: 490-78053-8 Date Sampled: 05/07/2015 1515
Client Matrix: Water Date Received: 05/08/2015 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-246854	Instrument ID:	HP36
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	050815-011.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	05/08/2015 1528			Final Weight/Volume:	10 mL
Prep Date:	05/08/2015 1528				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1-Dichloroethene	1.00	U	0.250	1.00
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
Tetrachloroethene	7.48		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Client Sample ID: **BRMW-02-GW-HS-050715**

Lab Sample ID: 490-78053-9 Date Sampled: 05/07/2015 1700
Client Matrix: Water Date Received: 05/08/2015 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-246854	Instrument ID:	HP36
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	050815-012.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	05/08/2015 1554			Final Weight/Volume:	10 mL
Prep Date:	05/08/2015 1554				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1-Dichloroethene	1.00	U	0.250	1.00
cis-1,2-Dichloroethene	1.17		0.210	1.00
Tetrachloroethene	59.3		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	140		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	106		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Client Sample ID: **BRMW-02-GW-HS-050715-FD**

Lab Sample ID: 490-78053-10 Date Sampled: 05/07/2015 1700
Client Matrix: Water Date Received: 05/08/2015 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-246854	Instrument ID:	HP36
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	050815-013.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	05/08/2015 1620			Final Weight/Volume:	10 mL
Prep Date:	05/08/2015 1620				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1-Dichloroethene	1.00	U	0.250	1.00
cis-1,2-Dichloroethene	1.11		0.210	1.00
Tetrachloroethene	58.9		0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	142		0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	105		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Client Sample ID: **BRMW-11-GW-HS-050715**

Lab Sample ID: 490-78053-11 Date Sampled: 05/07/2015 1735
Client Matrix: Water Date Received: 05/08/2015 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-246854	Instrument ID:	HP36
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	050815-014.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	05/08/2015 1645			Final Weight/Volume:	10 mL
Prep Date:	05/08/2015 1645				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1-Dichloroethene	0.514	J	0.250	1.00
cis-1,2-Dichloroethene	40.7		0.210	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Client Sample ID: **BRMW-11-GW-HS-050715**

Lab Sample ID: 490-78053-11 Date Sampled: 05/07/2015 1735
Client Matrix: Water Date Received: 05/08/2015 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-247169	Instrument ID:	HP36
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	051015-012.D
Dilution:	20			Initial Weight/Volume:	10 mL
Analysis Date:	05/10/2015 2008	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	05/10/2015 2008				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Tetrachloroethene	1420		2.80	20.0
Trichloroethene	2150		4.00	20.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Client Sample ID: TB050715

Lab Sample ID: 490-78053-12TB Date Sampled: 05/06/2015 0001
Client Matrix: Water Date Received: 05/08/2015 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-246854	Instrument ID:	HP36
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	050815-009.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	05/08/2015 1436			Final Weight/Volume:	10 mL
Prep Date:	05/08/2015 1436				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1-Dichloroethene	1.00	U	0.250	1.00
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Client Sample ID: **SHMW-2-GW-HS-050615**

Lab Sample ID: 490-78053-1 Date Sampled: 05/06/2015 1605
Client Matrix: Water Date Received: 05/08/2015 0900

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-247204	Instrument ID:	ICP5
Prep Method:	3010A	Prep Batch:	490-246913	Lab File ID:	TALS_051015-5.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	05/10/2015 1716			Final Weight/Volume:	50 mL
Prep Date:	05/08/2015 1447				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Sodium	8.21	B	0.500	1.00

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Client Sample ID: **SPMW-11-GW-HS-050715**

Lab Sample ID: 490-78053-2 Date Sampled: 05/07/2015 0810
Client Matrix: Water Date Received: 05/08/2015 0900

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-247204	Instrument ID:	ICP5
Prep Method:	3010A	Prep Batch:	490-246913	Lab File ID:	TALS_051015-5.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	05/10/2015 1721			Final Weight/Volume:	50 mL
Prep Date:	05/08/2015 1447				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Sodium	3.08	B	0.500	1.00

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Client Sample ID: **SHMW-3-GW-HS-050715**

Lab Sample ID: 490-78053-5 Date Sampled: 05/07/2015 1135
Client Matrix: Water Date Received: 05/08/2015 0900

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-247204	Instrument ID:	ICP5
Prep Method:	3010A	Prep Batch:	490-246913	Lab File ID:	TALS_051015-5.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	05/10/2015 1645			Final Weight/Volume:	50 mL
Prep Date:	05/08/2015 1447				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Sodium	7.52	B	0.500	1.00

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Client Sample ID: **SPMW-12-GW-HS-050715**

Lab Sample ID: 490-78053-6 Date Sampled: 05/07/2015 1250
Client Matrix: Water Date Received: 05/08/2015 0900

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-247204	Instrument ID:	ICP5
Prep Method:	3010A	Prep Batch:	490-246913	Lab File ID:	TALS_051015-5.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	05/10/2015 1725			Final Weight/Volume:	50 mL
Prep Date:	05/08/2015 1447				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Sodium	4.90	B	0.500	1.00

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Client Sample ID: **SPMW-12-GW-HS-050715-FD**

Lab Sample ID: 490-78053-7 Date Sampled: 05/07/2015 1250
Client Matrix: Water Date Received: 05/08/2015 0900

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	490-247204	Instrument ID:	ICP5
Prep Method:	3010A	Prep Batch:	490-246913	Lab File ID:	TALS_051015-5.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	05/10/2015 1730			Final Weight/Volume:	50 mL
Prep Date:	05/08/2015 1447				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Sodium	4.74	B	0.500	1.00

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
490-78053-4	SPMW-7-GW-HS-050715	100	95	99	104
490-78053-8	BRMW-04-GW-HS-050715	99	96	101	104
490-78053-9	BRMW-02-GW-HS-050715	99	96	100	106
490-78053-10	BRMW-02-GW-HS-050715-FD	98	97	102	105
490-78053-11	BRMW-11-GW-HS-050715	99	96	103	104
490-78053-11 DL	BRMW-11-GW-HS-050715 DL	98	97	100	103
490-78053-12	TB050715	100	97	102	104
MB 490-246854/7		99	98	101	105
MB 490-247169/7		99	99	100	108
LCS 490-246854/3		101	98	104	105
LCS 490-247169/4		101	104	105	108
LCSD 490-246854/4		102	102	103	103
LCSD 490-247169/8		100	102	104	108
490-78053-8 MS	BRMW-04-GW-HS-050715 MS	99	100	105	111
490-78053-8 MSD	BRMW-04-GW-HS-050715 MSD	100	102	106	110

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Method Blank - Batch: 490-246854

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-246854/7	Analysis Batch:	490-246854	Instrument ID:	HP36
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	050815-007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	05/08/2015 1342	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	05/08/2015 1342				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1-Dichloroethene	1.00	U	0.250	1.00
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98	70 - 130
4-Bromofluorobenzene (Surr)	105	70 - 130
Dibromofluoromethane (Surr)	99	70 - 130
Toluene-d8 (Surr)	101	70 - 130

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-246854

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-246854/3	Analysis Batch:	490-246854	Instrument ID:	HP36
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	050815-003.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	05/08/2015 1200	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	05/08/2015 1200				10 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-246854/4	Analysis Batch:	490-246854	Instrument ID:	HP36
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	050815-004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	05/08/2015 1226	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	05/08/2015 1226				10 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1-Dichloroethene	86	95	79 - 124	10	17		
cis-1,2-Dichloroethene	94	103	76 - 125	9	17		
Tetrachloroethene	99	107	80 - 126	8	16		
trans-1,2-Dichloroethene	89	99	79 - 126	11	16		
Trichloroethene	93	102	80 - 123	10	17		
Vinyl chloride	91	100	68 - 120	10	17		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98	102	70 - 130
4-Bromofluorobenzene (Surr)	105	103	70 - 130
Dibromofluoromethane (Surr)	101	102	70 - 130
Toluene-d8 (Surr)	104	103	70 - 130

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-246854

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-246854/3	Units: ug/L		LCSD Lab Sample ID:	LCSD 490-246854/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	05/08/2015 1200			Analysis Date:	05/08/2015 1226
Prep Date:	05/08/2015 1200			Prep Date:	05/08/2015 1226
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
1,1-Dichloroethene	50.0	50.0	43.15	47.57
cis-1,2-Dichloroethene	50.0	50.0	47.03	51.62
Tetrachloroethene	50.0	50.0	49.37	53.43
trans-1,2-Dichloroethene	50.0	50.0	44.38	49.68
Trichloroethene	50.0	50.0	46.29	51.13
Vinyl chloride	50.0	50.0	45.58	50.24

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-246854

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-78053-8	Analysis Batch:	490-246854	Instrument ID:	HP36
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	050815-024.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	05/08/2015 2103			Final Weight/Volume:	10 mL
Prep Date:	05/08/2015 2103				10 mL
Leach Date:	N/A				

MSD Lab Sample ID:	490-78053-8	Analysis Batch:	490-246854	Instrument ID:	HP36
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	050815-025.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	05/08/2015 2129			Final Weight/Volume:	10 mL
Prep Date:	05/08/2015 2129				10 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1-Dichloroethene	91	92	70 - 142	1	17		
cis-1,2-Dichloroethene	100	99	68 - 138	1	17		
Tetrachloroethene	101	100	72 - 145	1	16		
trans-1,2-Dichloroethene	94	93	66 - 143	1	16		
Trichloroethene	97	95	73 - 144	2	17		
Vinyl chloride	101	96	56 - 129	5	17		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	102	70 - 130
4-Bromofluorobenzene (Surr)	111	110	70 - 130
Dibromofluoromethane (Surr)	99	100	70 - 130
Toluene-d8 (Surr)	105	106	70 - 130

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-246854

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-78053-8	Units:	ug/L	MSD Lab Sample ID:	490-78053-8
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	05/08/2015 2103			Analysis Date:	05/08/2015 2129
Prep Date:	05/08/2015 2103			Prep Date:	05/08/2015 2129
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,1-Dichloroethene	1.00	U	50.0	50.0	45.62	46.15
cis-1,2-Dichloroethene	1.00	U	50.0	50.0	49.98	49.70
Tetrachloroethene	7.48		50.0	50.0	57.81	57.49
trans-1,2-Dichloroethene	1.00	U	50.0	50.0	47.02	46.62
Trichloroethene	1.00	U	50.0	50.0	48.31	47.52
Vinyl chloride	1.00	U	50.0	50.0	50.32	48.05

Client: CH2M Hill, Inc.

Job Number: 490-78053-1

Method Blank - Batch: 490-247169

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-247169/7	Analysis Batch:	490-247169	Instrument ID:	HP36
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	051015-007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	05/10/2015 1825	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	05/10/2015 1825				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1-Dichloroethene	1.00	U	0.250	1.00
cis-1,2-Dichloroethene	1.00	U	0.210	1.00
Tetrachloroethene	1.00	U	0.140	1.00
trans-1,2-Dichloroethene	1.00	U	0.230	1.00
Trichloroethene	1.00	U	0.200	1.00
Vinyl chloride	1.00	U	0.180	1.00

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	70 - 130
4-Bromofluorobenzene (Surr)	108	70 - 130
Dibromofluoromethane (Surr)	99	70 - 130
Toluene-d8 (Surr)	100	70 - 130

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-247169

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-247169/4	Analysis Batch:	490-247169	Instrument ID:	HP36
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	051015-004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	05/10/2015 1643	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	05/10/2015 1643				10 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-247169/8	Analysis Batch:	490-247169	Instrument ID:	HP36
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	051015-008.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	05/10/2015 1708	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	05/10/2015 1708				10 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1-Dichloroethene	93	93	79 - 124	0	17		
cis-1,2-Dichloroethene	101	104	76 - 125	2	17		
Tetrachloroethene	102	103	80 - 126	1	16		
trans-1,2-Dichloroethene	94	95	79 - 126	0	16		
Trichloroethene	98	99	80 - 123	1	17		
Vinyl chloride	103	102	68 - 120	1	17		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104	102	70 - 130
4-Bromofluorobenzene (Surr)	108	108	70 - 130
Dibromofluoromethane (Surr)	101	100	70 - 130
Toluene-d8 (Surr)	105	104	70 - 130

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-247169

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-247169/4	Units: ug/L		LCSD Lab Sample ID:	LCSD 490-247169/8
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	05/10/2015 1643			Analysis Date:	05/10/2015 1708
Prep Date:	05/10/2015 1643			Prep Date:	05/10/2015 1708
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
1,1-Dichloroethene	50.0	50.0	46.27	46.37
cis-1,2-Dichloroethene	50.0	50.0	50.73	51.97
Tetrachloroethene	50.0	50.0	51.17	51.48
trans-1,2-Dichloroethene	50.0	50.0	47.23	47.34
Trichloroethene	50.0	50.0	48.80	49.26
Vinyl chloride	50.0	50.0	51.52	51.14

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Method Blank - Batch: 490-246913 **Method: 6010C**
Preparation: 3010A

Lab Sample ID:	MB 490-246913/1-A	Analysis Batch:	490-247204	Instrument ID:	ICP5
Client Matrix:	Water	Prep Batch:	490-246913	Lab File ID:	TALS_051015-5.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	05/10/2015 1633	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	05/08/2015 1447				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Sodium	0.6479	J	0.500	1.00

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-246913 **Method: 6010C**
Preparation: 3010A

LCS Lab Sample ID:	LCS 490-246913/2-A	Analysis Batch:	490-247204	Instrument ID:	ICP5
Client Matrix:	Water	Prep Batch:	490-246913	Lab File ID:	TALS_051015-5.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	05/10/2015 1637	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	05/08/2015 1447				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-246913/3-A	Analysis Batch:	490-247204	Instrument ID:	ICP5
Client Matrix:	Water	Prep Batch:	490-246913	Lab File ID:	TALS_051015-5.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	05/10/2015 1641	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	05/08/2015 1447				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Sodium	110	109	80 - 120	2	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-246913 **Method: 6010C**
Preparation: 3010A

LCS Lab Sample ID:	LCS 490-246913/2-A	Units:	mg/L	LCSD Lab Sample ID:	LCSD 490-246913/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	05/10/2015 1637			Analysis Date:	05/10/2015 1641
Prep Date:	05/08/2015 1447			Prep Date:	05/08/2015 1447
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Sodium	5.00	5.00	5.523	5.434

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Post Digestion Spike - Batch: 490-246913

Method: 6010C
Preparation: 3010A

Lab Sample ID:	490-78053-5	Analysis Batch:	490-247204	Instrument ID:	ICP5
Client Matrix:	Water	Prep Batch:	490-246913	Lab File ID:	TALS_051015-5.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	05/10/2015 1704	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	05/08/2015 1447				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Sodium	7.52	5.00	12.36	97	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-246913

Method: 6010C
Preparation: 3010A

MS Lab Sample ID:	490-78053-5	Analysis Batch:	490-247204	Instrument ID:	ICP5
Client Matrix:	Water	Prep Batch:	490-246913	Lab File ID:	TALS_051015-5.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	05/10/2015 1708			Final Weight/Volume:	50 mL
Prep Date:	05/08/2015 1447				
Leach Date:	N/A				

MSD Lab Sample ID:	490-78053-5	Analysis Batch:	490-247204	Instrument ID:	ICP5
Client Matrix:	Water	Prep Batch:	490-246913	Lab File ID:	TALS_051015-5.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	05/10/2015 1712			Final Weight/Volume:	50 mL
Prep Date:	05/08/2015 1447				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sodium	99	101	75 - 125	1	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-246913

Method: 6010C
Preparation: 3010A

MS Lab Sample ID:	490-78053-5	Units:	mg/L	MSD Lab Sample ID:	490-78053-5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	05/10/2015 1708			Analysis Date:	05/10/2015 1712
Prep Date:	05/08/2015 1447			Prep Date:	05/08/2015 1447
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Sodium	7.52	5.00	5.00	12.49	12.58

Client: CH2M Hill, Inc.

Job Number: 490-78053-1

Serial Dilution - Batch: 490-246913

Method: 6010C
Preparation: 3010A

Lab Sample ID:	490-78053-5	Analysis Batch:	490-247204	Instrument ID:	ICP5
Client Matrix:	Water	Prep Batch:	490-246913	Lab File ID:	TALS_051015-5.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	05/10/2015 1650	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	05/08/2015 1447				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Sodium	7.52	8.695	NC	10	

DATA REPORTING QUALIFIERS

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	J	Indicates an estimated value.
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates analyzed for but not detected.
	J	Sample result is greater than the MDL but below the CRDL

Client: CH2M Hill, Inc. Job Number: 490-78053-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-246854					
LCS 490-246854/3	Lab Control Sample	T	Water	8260B	
LCSD 490-246854/4	Lab Control Sample Duplicate	T	Water	8260B	
MB 490-246854/7	Method Blank	T	Water	8260B	
490-78053-4	SPMW-7-GW-HS-050715	T	Water	8260B	
490-78053-8	BRMW-04-GW-HS-050715	T	Water	8260B	
490-78053-8MS	Matrix Spike	T	Water	8260B	
490-78053-8MSD	Matrix Spike Duplicate	T	Water	8260B	
490-78053-9	BRMW-02-GW-HS-050715	T	Water	8260B	
490-78053-10	BRMW-02-GW-HS-050715-FD	T	Water	8260B	
490-78053-11	BRMW-11-GW-HS-050715	T	Water	8260B	
490-78053-12TB	TB050715	T	Water	8260B	
Analysis Batch:490-247169					
LCS 490-247169/4	Lab Control Sample	T	Water	8260B	
LCSD 490-247169/8	Lab Control Sample Duplicate	T	Water	8260B	
MB 490-247169/7	Method Blank	T	Water	8260B	
490-78053-11DL	BRMW-11-GW-HS-050715	T	Water	8260B	

Report Basis
T = Total

Client: CH2M Hill, Inc. Job Number: 490-78053-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 490-246913					
LCS 490-246913/2-A	Lab Control Sample	T	Water	3010A	
LCSD 490-246913/3-A	Lab Control Sample Duplicate	T	Water	3010A	
MB 490-246913/1-A	Method Blank	T	Water	3010A	
490-78053-1	SHMW-2-GW-HS-050615	T	Water	3010A	
490-78053-2	SPMW-11-GW-HS-050715	T	Water	3010A	
490-78053-5	SHMW-3-GW-HS-050715	T	Water	3010A	
490-78053-5MS	Matrix Spike	T	Water	3010A	
490-78053-5MSD	Matrix Spike Duplicate	T	Water	3010A	
490-78053-6	SPMW-12-GW-HS-050715	T	Water	3010A	
490-78053-7	SPMW-12-GW-HS-050715-FD	T	Water	3010A	
Analysis Batch:490-247204					
LCS 490-246913/2-A	Lab Control Sample	T	Water	6010C	490-246913
LCSD 490-246913/3-A	Lab Control Sample Duplicate	T	Water	6010C	490-246913
MB 490-246913/1-A	Method Blank	T	Water	6010C	490-246913
490-78053-1	SHMW-2-GW-HS-050615	T	Water	6010C	490-246913
490-78053-2	SPMW-11-GW-HS-050715	T	Water	6010C	490-246913
490-78053-5	SHMW-3-GW-HS-050715	T	Water	6010C	490-246913
490-78053-5MS	Matrix Spike	T	Water	6010C	490-246913
490-78053-5MSD	Matrix Spike Duplicate	T	Water	6010C	490-246913
490-78053-6	SPMW-12-GW-HS-050715	T	Water	6010C	490-246913
490-78053-7	SPMW-12-GW-HS-050715-FD	T	Water	6010C	490-246913

Report Basis
T = Total

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Laboratory Chronicle

Lab ID: 490-78053-1 **Client ID: SHMW-2-GW-HS-050615**

Sample Date/Time: 05/06/2015 16:05 Received Date/Time: 05/08/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	490-78053-A-1-A		490-247204	490-246913	05/08/2015 14:47	1	TAL NSH	TSC
A:6010C	490-78053-A-1-A		490-247204	490-246913	05/10/2015 17:16	1	TAL NSH	ADN

Lab ID: 490-78053-2 **Client ID: SPMW-11-GW-HS-050715**

Sample Date/Time: 05/07/2015 08:10 Received Date/Time: 05/08/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	490-78053-A-2-A		490-247204	490-246913	05/08/2015 14:47	1	TAL NSH	TSC
A:6010C	490-78053-A-2-A		490-247204	490-246913	05/10/2015 17:21	1	TAL NSH	ADN

Lab ID: 490-78053-4 **Client ID: SPMW-7-GW-HS-050715**

Sample Date/Time: 05/07/2015 10:55 Received Date/Time: 05/08/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-78053-A-4		490-246854		05/08/2015 15:02	1	TAL NSH	RP
A:8260B	490-78053-A-4		490-246854		05/08/2015 15:02	1	TAL NSH	RP

Lab ID: 490-78053-5 **Client ID: SHMW-3-GW-HS-050715**

Sample Date/Time: 05/07/2015 11:35 Received Date/Time: 05/08/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	490-78053-A-5-A		490-247204	490-246913	05/08/2015 14:47	1	TAL NSH	TSC
A:6010C	490-78053-A-5-A		490-247204	490-246913	05/10/2015 16:45	1	TAL NSH	ADN

Lab ID: 490-78053-5 **Client ID: SHMW-3-GW-HS-050715**

Sample Date/Time: 05/07/2015 11:35 Received Date/Time: 05/08/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	490-78053-A-5-B MS		490-247204	490-246913	05/08/2015 14:47	1	TAL NSH	TSC
A:6010C	490-78053-A-5-B MS		490-247204	490-246913	05/10/2015 17:08	1	TAL NSH	ADN

Lab ID: 490-78053-5 **Client ID: SHMW-3-GW-HS-050715**

Sample Date/Time: 05/07/2015 11:35 Received Date/Time: 05/08/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	490-78053-A-5-C MSD		490-247204	490-246913	05/08/2015 14:47	1	TAL NSH	TSC
A:6010C	490-78053-A-5-C MSD		490-247204	490-246913	05/10/2015 17:12	1	TAL NSH	ADN

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Laboratory Chronicle

Lab ID: 490-78053-5 SD **Client ID: SHMW-3-GW-HS-050715**

Sample Date/Time: 05/07/2015 11:35 Received Date/Time: 05/08/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	490-78053-A-5-A SD ^5		490-247204	490-246913	05/08/2015 14:47	5	TAL NSH	TSC
A:6010C	490-78053-A-5-A SD ^5		490-247204	490-246913	05/10/2015 16:50	5	TAL NSH	ADN
P:3010A	490-78053-A-5-A PDS		490-247204	490-246913	05/08/2015 14:47	1	TAL NSH	TSC
A:6010C	490-78053-A-5-A PDS		490-247204	490-246913	05/10/2015 17:04	1	TAL NSH	ADN

Lab ID: 490-78053-6 **Client ID: SPMW-12-GW-HS-050715**

Sample Date/Time: 05/07/2015 12:50 Received Date/Time: 05/08/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	490-78053-A-6-A		490-247204	490-246913	05/08/2015 14:47	1	TAL NSH	TSC
A:6010C	490-78053-A-6-A		490-247204	490-246913	05/10/2015 17:25	1	TAL NSH	ADN

Lab ID: 490-78053-7 **Client ID: SPMW-12-GW-HS-050715-FD**

Sample Date/Time: 05/07/2015 12:50 Received Date/Time: 05/08/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	490-78053-A-7-A		490-247204	490-246913	05/08/2015 14:47	1	TAL NSH	TSC
A:6010C	490-78053-A-7-A		490-247204	490-246913	05/10/2015 17:30	1	TAL NSH	ADN

Lab ID: 490-78053-8 **Client ID: BRMW-04-GW-HS-050715**

Sample Date/Time: 05/07/2015 15:15 Received Date/Time: 05/08/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-78053-A-8		490-246854		05/08/2015 15:28	1	TAL NSH	RP
A:8260B	490-78053-A-8		490-246854		05/08/2015 15:28	1	TAL NSH	RP

Lab ID: 490-78053-8 MS **Client ID: BRMW-04-GW-HS-050715**

Sample Date/Time: 05/07/2015 15:15 Received Date/Time: 05/08/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-78053-B-8 MS		490-246854		05/08/2015 21:03	1	TAL NSH	RP
A:8260B	490-78053-B-8 MS		490-246854		05/08/2015 21:03	1	TAL NSH	RP

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Laboratory Chronicle

Lab ID: 490-78053-8 MSD **Client ID: BRMW-04-GW-HS-050715**

Sample Date/Time: 05/07/2015 15:15 Received Date/Time: 05/08/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-78053-C-8 MSD		490-246854		05/08/2015 21:29	1	TAL NSH	RP
A:8260B	490-78053-C-8 MSD		490-246854		05/08/2015 21:29	1	TAL NSH	RP

Lab ID: 490-78053-9 **Client ID: BRMW-02-GW-HS-050715**

Sample Date/Time: 05/07/2015 17:00 Received Date/Time: 05/08/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-78053-A-9		490-246854		05/08/2015 15:54	1	TAL NSH	RP
A:8260B	490-78053-A-9		490-246854		05/08/2015 15:54	1	TAL NSH	RP

Lab ID: 490-78053-10 **Client ID: BRMW-02-GW-HS-050715-FD**

Sample Date/Time: 05/07/2015 17:00 Received Date/Time: 05/08/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-78053-A-10		490-246854		05/08/2015 16:20	1	TAL NSH	RP
A:8260B	490-78053-A-10		490-246854		05/08/2015 16:20	1	TAL NSH	RP

Lab ID: 490-78053-11 **Client ID: BRMW-11-GW-HS-050715**

Sample Date/Time: 05/07/2015 17:35 Received Date/Time: 05/08/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-78053-A-11		490-246854		05/08/2015 16:45	1	TAL NSH	RP
A:8260B	490-78053-A-11		490-246854		05/08/2015 16:45	1	TAL NSH	RP
P:5030B	490-78053-B-11	DL	490-247169		05/10/2015 20:08	20	TAL NSH	SLM
A:8260B	490-78053-B-11	DL	490-247169		05/10/2015 20:08	20	TAL NSH	SLM

Lab ID: 490-78053-12 **Client ID: TB050715**

Sample Date/Time: 05/06/2015 00:01 Received Date/Time: 05/08/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-78053-A-12		490-246854		05/08/2015 14:36	1	TAL NSH	RP
A:8260B	490-78053-A-12		490-246854		05/08/2015 14:36	1	TAL NSH	RP

Client: CH2M Hill, Inc. Job Number: 490-78053-1

Laboratory Chronicle

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 490-246854/7		490-246854		05/08/2015 13:42	1	TAL NSH	RP
A:8260B	MB 490-246854/7		490-246854		05/08/2015 13:42	1	TAL NSH	RP
P:5030B	MB 490-247169/7		490-247169		05/10/2015 18:25	1	TAL NSH	SLM
A:8260B	MB 490-247169/7		490-247169		05/10/2015 18:25	1	TAL NSH	SLM
P:3010A	MB 490-246913/1-A		490-247204	490-246913	05/08/2015 14:47	1	TAL NSH	TSC
A:6010C	MB 490-246913/1-A		490-247204	490-246913	05/10/2015 16:33	1	TAL NSH	ADN

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 490-246854/3		490-246854		05/08/2015 12:00	1	TAL NSH	RP
A:8260B	LCS 490-246854/3		490-246854		05/08/2015 12:00	1	TAL NSH	RP
P:5030B	LCS 490-247169/4		490-247169		05/10/2015 16:43	1	TAL NSH	SLM
A:8260B	LCS 490-247169/4		490-247169		05/10/2015 16:43	1	TAL NSH	SLM
P:3010A	LCS 490-246913/2-A		490-247204	490-246913	05/08/2015 14:47	1	TAL NSH	TSC
A:6010C	LCS 490-246913/2-A		490-247204	490-246913	05/10/2015 16:37	1	TAL NSH	ADN

Lab ID: LCSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 490-246854/4		490-246854		05/08/2015 12:26	1	TAL NSH	RP
A:8260B	LCSD 490-246854/4		490-246854		05/08/2015 12:26	1	TAL NSH	RP
P:5030B	LCSD 490-247169/8		490-247169		05/10/2015 17:08	1	TAL NSH	SLM
A:8260B	LCSD 490-247169/8		490-247169		05/10/2015 17:08	1	TAL NSH	SLM
P:3010A	LCSD 490-246913/3-A		490-247204	490-246913	05/08/2015 14:47	1	TAL NSH	TSC
A:6010C	LCSD 490-246913/3-A		490-247204	490-246913	05/10/2015 16:41	1	TAL NSH	ADN

Lab References:
TAL NSH = TestAmerica Nashville

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MET_1:1HCL_00031	08/22/15	07/25/14	DI Water, Lot DI Water	2.5 L	MET_HCL_00029	1.25 L	Hydrogen Chloride	50 %
.MET_HCL_00029	08/22/15		avantor, Lot 0000083855		(Purchased Reagent)		Hydrogen Chloride	100 %
MET_CALSTD1__00003	07/15/15	01/15/15	5% Nitric Acid, Lot 1	100 mL	MET_CRIX100_00007	1 mL	Sodium	1 ppm
.MET_CRIX100_00007	01/23/16		ENVIRONMENTAL EXPRESS, Lot 1500707		(Purchased Reagent)		Sodium	100 mg/L
MET_CCV_00031	03/23/16	04/01/15	5% Nitric Acid, Lot 1	500 mL	MET_CCV_SOL_A_00005	5 mL	Sodium	10 ppm
.MET_CCV_SOL_A_00005	03/23/16		HIGH PURITY STANDARDS, Lot 1507817		(Purchased Reagent)		Sodium	1000 ppm
MET_HNO3_00085	04/22/16		MACRON, Lot 0000104740		(Purchased Reagent)		Nitric acid	100 %
MET_ICSA_00015	04/30/15	12/10/14	5% Nitric Acid, Lot 1	100 mL	MET_INT-A1_00006	10 mL	Al	500 ppm
							Ca	500 ppm
							Fe	200 ppm
							Mg	500 ppm
.MET_INT-A1_00006	04/30/15		Spex, Lot 10-54YPX		(Purchased Reagent)		Al	5000 ppm
							Ca	5000 ppm
							Fe	2000 ppm
							Mg	5000 ppm
MET_ICSAB_00024	04/30/15	04/17/15	5% Nitric Acid, Lot 0000093717	100 mL	MET_INT-A1_00008	10 mL	Al	501 ppm
							Ca	500.1 ppm
							Fe	200.1 ppm
							Mg	500.1 ppm
					MET_INT-B1_00006	1 mL	Ag	1 ppm
							Ba	0.5 ppm
							Be	0.5 ppm
							Cd	1 ppm
							Co	0.5 ppm
							Cr	0.5 ppm
							Cu	0.5 ppm
							Mn	0.5 ppm
							Ni	1 ppm
							Pb	1 ppm
							V	0.5 ppm
							Zn	1 ppm
					MET_INT-B2_00005	1 mL	Al	501 ppm
							As	1 ppm
							B	1 ppm
							Ca	500.1 ppm
							Fe	200.1 ppm
							Mg	500.1 ppm
							Mo	1 ppm
							Sb	1 ppm
							Se	1 ppm
							Sodium	10 ppm
							Tl	1 ppm
					MET_Na_STOCK_00004	90 uL	Sodium	10 ppm
.MET_INT-A1_00008	03/31/16		Spex, Lot 11-38YPX		(Purchased Reagent)		Al	5000 ppm
							Ca	5000 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fe	2000 ppm
							Mg	5000 ppm
.MET_INT-B1_00006	04/30/15	Spex, Lot 11-41YPY			(Purchased Reagent)		Ag	100 ppm
							Ba	50 ppm
							Be	50 ppm
							Cd	100 ppm
							Co	50 ppm
							Cr	50 ppm
							Cu	50 ppm
							Mn	50 ppm
							Ni	100 ppm
							Pb	100 ppm
							V	50 ppm
							Zn	100 ppm
.MET_INT-B2_00005	04/30/15	Spex, Lot 10-78YPY			(Purchased Reagent)		Al	100 ppm
							As	100 ppm
							B	100 ppm
							Ca	10 ppm
							Fe	10 ppm
							Mg	10 ppm
							Mo	100 ppm
							Sb	100 ppm
							Se	100 ppm
							Sodium	100 ppm
							Tl	100 ppm
.MET_Na_STOCK_00004	08/21/15	Environmental Express, Lot 1313419			(Purchased Reagent)		Sodium	10000 ppm
MET_ICV_00050	04/01/16	04/02/15	5% Nitric Acid, Lot 1	100 mL	MET_ICV_00049	100 mL	Sodium	10 ppm
.MET_ICV_00049	05/01/16	Inorganic Ventures, Lot J2-MEB572103			(Purchased Reagent)		Sodium	10 ppm
MET_Spike_A_00022	12/02/15	Environmental Express, Lot 1432935			(Purchased Reagent)		Sodium	500 ppm
MET_Spike_A_00026	04/23/16	Environmental Express, Lot 1510708			(Purchased Reagent)		Al	200 ppm
							As	5 ppm
							B	100 ppm
							Ba	200 ppm
							Be	5 ppm
							Ca	500 ppm
							Cd	5 ppm
							Co	50 ppm
							Cr	20 ppm
							Cu	25 ppm
							Fe	100 ppm
							K	500 ppm
							Li	100 ppm
							Mg	500 ppm
							Mn	50 ppm
							Ni	50 ppm
							Pb	5 ppm
							Se	5 ppm

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Sodium	500 ppm
							Sr	100 ppm
							Tl	5 ppm
							V	50 ppm
							Zn	50 ppm
MET_Spike_B_00027	04/23/16	Environmental Express, Lot 1510709			(Purchased Reagent)		Ag	5 ppm
							Mo	50 ppm
							Sb	10 ppm
							Sn	100 ppm
							Sulfur	100 ppm
							Ti	100 ppm
V1_gases_I_00101	05/08/15	05/01/15	Methanol, Lot 0000085233	25 mL	V1_Gases_00009	1 mL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V1_Gases_00009	01/31/18	Restek, Lot A0108198			(Purchased Reagent)		Bromomethane	2500000 ug/L
							Butadiene	2500000 ug/L
							Chloroethane	2500000 ug/L
							Chloromethane	2500000 ug/L
							Dichlorodifluoromethane	2500000 ug/L
							Dichlorofluoromethane	2500000 ug/L
							Trichlorofluoromethane	2500000 ug/L
							Vinyl chloride	2500000 ug/L
V1_gases_I_00102	05/14/15	05/07/15	Methanol, Lot 0000085233	25 mL	V1_Gases_00009	1 mL	Vinyl chloride	100 ug/mL
.V1_Gases_00009	01/31/18	Restek, Lot A0108198			(Purchased Reagent)		Vinyl chloride	2500000 ug/L
V1_Mega_I_00035	05/17/15	04/17/15	Methanol, Lot 0000049909	50 mL	V1_2-CEVE_00006	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					V1_AcroleinHi_00006	0.625 mL	Acrolein	250 ug/mL
					V1_Additions_00011	2 mL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Benzyl chloride	100 ug/mL
							Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Methacrylonitrile	1000 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butanol	2500 ug/mL
							n-Butyl acetate	100 ug/mL
					V1_cyclohxnon_00010	2 mL	Cyclohexanone	1000 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					V1_Keytones_00008	2 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					V1_Megamix_00013	2 mL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					V1_Polar addi_00005	2 mL	Acetonitrile	1000 ug/mL
							Ethanol	4000 ug/mL
							Isopropyl ether	100 ug/mL
							Propionitrile	1000 ug/mL
							t-Amyl alcohol	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
					V1_vnl acetat_00011	2 mL	Vinyl acetate	200 ug/mL
.V1_2-CEVE_00006	01/31/18		Restek, Lot A0108172		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500000 ug/L
.V1_AcroleinHi_00006	05/31/15		Restek, Lot A0108734		(Purchased Reagent)		Acrolein	20000000 ug/L
.V1_Additions_00011	07/31/15		Restek, Lot A0108219		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500000 ug/L
							1,3,5-Trichlorobenzene	2500000 ug/L
							2-Chloro-1,3-butadiene	2500000 ug/L
							2-Nitropropane	5000000 ug/L
							Benzyl chloride	2500000 ug/L
							Ethyl acetate	5000000 ug/L
							Ethyl acrylate	2500000 ug/L
							Isopropyl alcohol	25000000 ug/L
							Methacrylonitrile	25000000 ug/L
							Methyl methacrylate	5000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butanol	62500000 ug/L
							n-Butyl acetate	2500000 ug/L
.V1_cyclohxnon_00010	01/31/18		Restek, Lot A0108235		(Purchased Reagent)		Cyclohexanone	25000000 ug/L
.V1_Keytones_00008	01/31/18		Restek, Lot A01081051		(Purchased Reagent)		2-Butanone (MEK)	12500000 ug/L
							2-Hexanone	12500000 ug/L
							4-Methyl-2-pentanone (MIBK)	12500000 ug/L
							Acetone	12500000 ug/L
.V1_Megamix_00013	01/31/17		Restek, Lot A0108166		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500000 ug/L
							1,1,1-Trichloroethane	2500000 ug/L
							1,1,2,2-Tetrachloroethane	2500000 ug/L
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500000 ug/L
							1,1,2-Trichloroethane	2500000 ug/L
							1,1-Dichloroethane	2500000 ug/L
							1,1-Dichloroethene	2500000 ug/L
							1,1-Dichloropropene	2500000 ug/L
							1,2,3-Trichlorobenzene	2500000 ug/L
							1,2,3-Trichloropropane	2500000 ug/L
							1,2,4-Trichlorobenzene	2500000 ug/L
							1,2,4-Trimethylbenzene	2500000 ug/L
							1,2-Dibromo-3-Chloropropane	2500000 ug/L
							1,2-Dichlorobenzene	2500000 ug/L
							1,2-Dichloroethane	2500000 ug/L
							1,2-Dichloropropane	2500000 ug/L
							1,3,5-Trimethylbenzene	2500000 ug/L
							1,3-Dichlorobenzene	2500000 ug/L
							1,3-Dichloropropane	2500000 ug/L
							1,4-Dichlorobenzene	2500000 ug/L
							1,4-Dioxane	50000000 ug/L
							2,2-Dichloropropane	2500000 ug/L
							2-Chlorotoluene	2500000 ug/L
							2-Methyl-2-propanol	25000000 ug/L
							3-Chloro-1-propene	2500000 ug/L
							4-Chlorotoluene	2500000 ug/L
							4-Isopropyltoluene	2500000 ug/L
							Acrylonitrile	25000000 ug/L
							Benzene	2500000 ug/L
							Bromobenzene	2500000 ug/L
							Bromoform	2500000 ug/L
							Carbon disulfide	2500000 ug/L
							Carbon tetrachloride	2500000 ug/L
							Chlorobenzene	2500000 ug/L
							Chlorobromomethane	2500000 ug/L
							Chlorodibromomethane	2500000 ug/L
							Chloroform	2500000 ug/L
							cis-1,2-Dichloroethene	2500000 ug/L
							cis-1,3-Dichloropropene	2500000 ug/L
							Cyclohexane	2500000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	2500000 ug/L
							Dichlorobromomethane	2500000 ug/L
							Ethyl ether	2500000 ug/L
							Ethyl methacrylate	2500000 ug/L
							Ethylbenzene	2500000 ug/L
							Ethylene Dibromide	2500000 ug/L
							Hexachlorobutadiene	2500000 ug/L
							Hexane	2500000 ug/L
							Iodomethane	2500000 ug/L
							Isobutyl alcohol	62500000 ug/L
							Isopropylbenzene	2500000 ug/L
							m-Xylene & p-Xylene	2500000 ug/L
							Methyl acetate	12500000 ug/L
							Methyl tert-butyl ether	2500000 ug/L
							Methylcyclohexane	2500000 ug/L
							Methylene Chloride	2500000 ug/L
							n-Butylbenzene	2500000 ug/L
							n-Heptane	2500000 ug/L
							N-Propylbenzene	2500000 ug/L
							Naphthalene	2500000 ug/L
							o-Xylene	2500000 ug/L
							sec-Butylbenzene	2500000 ug/L
							Styrene	2500000 ug/L
							tert-Butylbenzene	2500000 ug/L
							Tetrachloroethene	2500000 ug/L
							Tetrahydrofuran	5000000 ug/L
							Toluene	2500000 ug/L
							trans-1,2-Dichloroethene	2500000 ug/L
							trans-1,3-Dichloropropene	2500000 ug/L
							trans-1,4-Dichloro-2-butene	2500000 ug/L
							Trichloroethene	2500000 ug/L
.V1_Polar addi_00005	01/31/17		Restek, Lot A0108216		(Purchased Reagent)		Acetonitrile	25000000 ug/L
							Ethanol	100000000 ug/L
							Isopropyl ether	2500000 ug/L
							Propionitrile	25000000 ug/L
							t-Amyl alcohol	25000000 ug/L
							Tert-amyl methyl ether	2500000 ug/L
							Tert-butyl ethyl ether	2500000 ug/L
.V1_vnl acetat_00011	07/31/15		Restek, Lot A0108225		(Purchased Reagent)		Vinyl acetate	5000000 ug/L
V2_gases_I_00077	05/25/15	04/16/15	Methanol, Lot 0000085233	25 mL	V2_Gases_00008	1.25 mL	Vinyl chloride	100 ug/mL
.V2_Gases_00008	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Vinyl chloride	2000000 ug/L
V2_Mega_I_00040	06/05/15	05/05/15	Methanol, Lot UST_Methanol_00039	10 mL	V2_Megamix_00010	0.5 mL	1,1-Dichloroethene	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	100 ug/mL
.V2_Megamix_00010	02/28/16		Restek, Lot A093733		(Purchased Reagent)		1,1-Dichloroethene	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							Trichloroethene	2000000 ug/L
VOA_ISSS_50_W_00025	05/20/15	04/20/15	Methanol, Lot id_00037	50 mL	VOA_ISSS250_W_00019	10 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
							1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
.VOA_ISSS250_W_00019	09/06/15	03/07/15	Methanol, Lot UST_Methanol_00037	50 mL	V1_Surrogates_00002	5 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
					VOA_IS Mix_S_00006	5 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
..V1_Surrogates_00002	02/28/18		Restek, Lot A093505		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500000 ug/L
							4-Bromofluorobenzene (Surr)	2500000 ug/L
							Dibromofluoromethane (Surr)	2500000 ug/L
							Toluene-d8 (Surr)	2500000 ug/L
..VOA_IS Mix_S_00006	12/31/15		Ultra Scientific, Lot CK-3734		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500000 ug/L
							Chlorobenzene-d5	2500000 ug/L
							Fluorobenzene (IS)	2500000 ug/L

Certification Summary

Client: CH2M Hill, Inc.
Project/Site: Schlumberger Sangamo OU-1

TestAmerica Job ID: 490-78053-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	A2LA		NA: NELAP & A2LA
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	Alaska (UST)	State Program	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas DEQ	State Program	6	88-0737
TestAmerica Nashville	California	State Program	9	2938
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAP	4	E87358
TestAmerica Nashville	Illinois	NELAP	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAP	7	E-10229
TestAmerica Nashville	Kentucky (UST)	State Program	4	19
TestAmerica Nashville	Kentucky (WW)	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAP	6	30613
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAP	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana (UST)	State Program	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAP	1	2963
TestAmerica Nashville	New Jersey	NELAP	2	TN965
TestAmerica Nashville	New York	NELAP	2	11342
TestAmerica Nashville	North Carolina (WW/SW)	State Program	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio VAP	State Program	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAP	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAP	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009 (001)
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAP	6	T104704077
TestAmerica Nashville	USDA	Federal		S-48469
TestAmerica Nashville	Utah	NELAP	8	TN00032
TestAmerica Nashville	Virginia	NELAP	3	460152
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia DEP	State Program	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430
TestAmerica Nashville	Wyoming (UST)	A2LA	8	453.07

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
SPMW-7-GW-HS-050715	490-78053-4	100	95	99	104
BRMW-04-GW-HS-050715	490-78053-8	99	96	101	104
BRMW-02-GW-HS-050715	490-78053-9	99	96	100	106
BRMW-02-GW-HS-050715-FD	490-78053-10	98	97	102	105
BRMW-11-GW-HS-050715	490-78053-11	99	96	103	104
BRMW-11-GW-HS-050715 DL	490-78053-11 DL	98	97	100	103
TB050715	490-78053-12	100	97	102	104
	MB 490-246854/7	99	98	101	105
	MB 490-247169/7	99	99	100	108
	LCS 490-246854/3	101	98	104	105
	LCS 490-247169/4	101	104	105	108
	LCSD 490-246854/4	102	102	103	103
	LCSD 490-247169/8	100	102	104	108
BRMW-04-GW-HS-050715 MS	490-78053-8 MS	99	100	105	111
BRMW-04-GW-HS-050715 MSD	490-78053-8 MSD	100	102	106	110

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 050815-003.D

Lab ID: LCS 490-246854/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethene	50.0	43.15	86	79-124	
cis-1,2-Dichloroethene	50.0	47.03	94	76-125	
Tetrachloroethene	50.0	49.37	99	80-126	
trans-1,2-Dichloroethene	50.0	44.38	89	79-126	
Trichloroethene	50.0	46.29	93	80-123	
Vinyl chloride	50.0	45.58	91	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 051015-004.D

Lab ID: LCS 490-247169/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethene	50.0	46.27	93	79-124	
cis-1,2-Dichloroethene	50.0	50.73	101	76-125	
Tetrachloroethene	50.0	51.17	102	80-126	
trans-1,2-Dichloroethene	50.0	47.23	94	79-126	
Trichloroethene	50.0	48.80	98	80-123	
Vinyl chloride	50.0	51.52	103	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 050815-004.D

Lab ID: LCSD 490-246854/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethene	50.0	47.57	95	10	17	79-124	
cis-1,2-Dichloroethene	50.0	51.62	103	9	17	76-125	
Tetrachloroethene	50.0	53.43	107	8	16	80-126	
trans-1,2-Dichloroethene	50.0	49.68	99	11	16	79-126	
Trichloroethene	50.0	51.13	102	10	17	80-123	
Vinyl chloride	50.0	50.24	100	10	17	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 051015-008.D

Lab ID: LCSD 490-247169/8 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethene	50.0	46.37	93	0	17	79-124	
cis-1,2-Dichloroethene	50.0	51.97	104	2	17	76-125	
Tetrachloroethene	50.0	51.48	103	1	16	80-126	
trans-1,2-Dichloroethene	50.0	47.34	95	0	16	79-126	
Trichloroethene	50.0	49.26	99	1	17	80-123	
Vinyl chloride	50.0	51.14	102	1	17	68-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 050815-024.D

Lab ID: 490-78053-8 MS Client ID: BRMW-04-GW-HS-050715 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1-Dichloroethene	50.0	1.00 U	45.62	91	70-142	
cis-1,2-Dichloroethene	50.0	1.00 U	49.98	100	68-138	
Tetrachloroethene	50.0	7.48	57.81	101	72-145	
trans-1,2-Dichloroethene	50.0	1.00 U	47.02	94	66-143	
Trichloroethene	50.0	1.00 U	48.31	97	73-144	
Vinyl chloride	50.0	1.00 U	50.32	101	56-129	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 050815-025.D

Lab ID: 490-78053-8 MSD Client ID: BRMW-04-GW-HS-050715 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethene	50.0	46.15	92	1	17	70-142	
cis-1,2-Dichloroethene	50.0	49.70	99	1	17	68-138	
Tetrachloroethene	50.0	57.49	100	1	16	72-145	
trans-1,2-Dichloroethene	50.0	46.62	93	1	16	66-143	
Trichloroethene	50.0	47.52	95	2	17	73-144	
Vinyl chloride	50.0	48.05	96	5	17	56-129	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Lab File ID: 050815-007.D Lab Sample ID: MB 490-246854/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP36 Date Analyzed: 05/08/2015 13:42

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-246854/3	050815-003.D	05/08/2015 12:00
	LCSD 490-246854/4	050815-004.D	05/08/2015 12:26
TB050715	490-78053-12	050815-009.D	05/08/2015 14:36
SPMW-7-GW-HS-050715	490-78053-4	050815-010.D	05/08/2015 15:02
BRMW-04-GW-HS-050715	490-78053-8	050815-011.D	05/08/2015 15:28
BRMW-02-GW-HS-050715	490-78053-9	050815-012.D	05/08/2015 15:54
BRMW-02-GW-HS-050715-FD	490-78053-10	050815-013.D	05/08/2015 16:20
BRMW-11-GW-HS-050715	490-78053-11	050815-014.D	05/08/2015 16:45
BRMW-04-GW-HS-050715 MS	490-78053-8 MS	050815-024.D	05/08/2015 21:03
BRMW-04-GW-HS-050715 MSD	490-78053-8 MSD	050815-025.D	05/08/2015 21:29

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Lab File ID: 051015-007.D Lab Sample ID: MB 490-247169/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP36 Date Analyzed: 05/10/2015 18:25

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-247169/4	051015-004.D	05/10/2015 16:43
	LCSD 490-247169/8	051015-008.D	05/10/2015 17:08
BRMW-11-GW-HS-050715 DL	490-78053-11 DL	051015-012.D	05/10/2015 20:08

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Lab File ID: 050715-002.D BFB Injection Date: 05/07/2015

Instrument ID: HP36 BFB Injection Time: 11:57

Analysis Batch No.: 246484

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.9	
75	30.0 - 60.0 % of mass 95	49.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.5	(0.4)1
174	50.0 - 120.00 % of mass 95	110.0	
175	5.0 - 9.0 % of mass 174	8.2	(7.4)1
176	95.0 - 101.0 % of mass 174	108.1	(98.3)1
177	5.0 - 9.0 % of mass 176	7.5	(7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD 490-246484/11	050715-011.D	05/07/2015	17:23
	STD 490-246484/12	050715-012.D	05/07/2015	17:49
	STD 490-246484/13	050715-013.D	05/07/2015	18:14
	STD 490-246484/14	050715-014.D	05/07/2015	18:41
	STD 490-246484/15	050715-015.D	05/07/2015	19:07
	STD 490-246484/16	050715-016.D	05/07/2015	19:32
	ICIS 490-246484/17	050715-017.D	05/07/2015	19:58
	STD 490-246484/18	050715-018.D	05/07/2015	20:24
	STD 490-246484/19	050715-019.D	05/07/2015	20:50
	STD 490-246484/20	050715-020.D	05/07/2015	21:15
	ICV 490-246484/24	050715-024.D	05/07/2015	22:58

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Lab File ID: 050815-001.D BFB Injection Date: 05/08/2015

Instrument ID: HP36 BFB Injection Time: 11:08

Analysis Batch No.: 246854

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.9	
75	30.0 - 60.0 % of mass 95	48.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	108.3	
175	5.0 - 9.0 % of mass 174	7.8	(7.2)1
176	95.0 - 101.0 % of mass 174	108.0	(99.7)1
177	5.0 - 9.0 % of mass 176	7.2	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-246854/2	050815-002.D	05/08/2015	11:34
	LCS 490-246854/3	050815-003.D	05/08/2015	12:00
	LCSD 490-246854/4	050815-004.D	05/08/2015	12:26
	MB 490-246854/7	050815-007.D	05/08/2015	13:42
TB050715	490-78053-12	050815-009.D	05/08/2015	14:36
SPMW-7-GW-HS-050715	490-78053-4	050815-010.D	05/08/2015	15:02
BRMW-04-GW-HS-050715	490-78053-8	050815-011.D	05/08/2015	15:28
BRMW-02-GW-HS-050715	490-78053-9	050815-012.D	05/08/2015	15:54
BRMW-02-GW-HS-050715-FD	490-78053-10	050815-013.D	05/08/2015	16:20
BRMW-11-GW-HS-050715	490-78053-11	050815-014.D	05/08/2015	16:45
BRMW-04-GW-HS-050715 MS	490-78053-8 MS	050815-024.D	05/08/2015	21:03
BRMW-04-GW-HS-050715 MSD	490-78053-8 MSD	050815-025.D	05/08/2015	21:29

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Lab File ID: 051015-002.D BFB Injection Date: 05/10/2015

Instrument ID: HP36 BFB Injection Time: 15:51

Analysis Batch No.: 247169

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.8	
75	30.0 - 60.0 % of mass 95	48.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.5	(0.5)1
174	50.0 - 120.00 % of mass 95	110.3	
175	5.0 - 9.0 % of mass 174	7.9	(7.2)1
176	95.0 - 101.0 % of mass 174	107.7	(97.6)1
177	5.0 - 9.0 % of mass 176	7.2	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-247169/3	051015-003.D	05/10/2015	16:17
	LCS 490-247169/4	051015-004.D	05/10/2015	16:43
	LCSD 490-247169/8	051015-008.D	05/10/2015	17:08
	MB 490-247169/7	051015-007.D	05/10/2015	18:25
BRMW-11-GW-HS-050715 DL	490-78053-11 DL	051015-012.D	05/10/2015	20:08

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Sample No.: ICIS 490-246484/17 Date Analyzed: 05/07/2015 19:58

Instrument ID: HP36 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 050715-017.D Heated Purge: (Y/N) N

Calibration ID: 41862

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		239904	4.47	203565	6.90	127148	9.07
UPPER LIMIT		479808	4.97	407130	7.40	254296	9.57
LOWER LIMIT		119952	3.97	101783	6.40	63574	8.57
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-246484/24		237578	4.47	202271	6.90	125358	9.06
CCVIS 490-246854/2		254661	4.47	204407	6.90	128093	9.07
CCVIS 490-247169/3		269328	4.47	223594	6.90	136203	9.06

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Sample No.: CCVIS 490-246854/2 Date Analyzed: 05/08/2015 11:34

Instrument ID: HP36 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 050815-002.D Heated Purge: (Y/N) N

Calibration ID: 41862

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		254661	4.47	204407	6.90	128093	9.07
UPPER LIMIT		509322	4.97	408814	7.40	256186	9.57
LOWER LIMIT		127331	3.97	102204	6.40	64047	8.57
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-246854/3		248209	4.47	198218	6.90	123472	9.06
LCSD 490-246854/4		245571	4.47	201933	6.90	126022	9.06
MB 490-246854/7		228448	4.47	190442	6.90	118119	9.07
490-78053-12	TB050715	226773	4.47	184585	6.90	114853	9.07
490-78053-4	SPMW-7-GW-HS-050715	213302	4.47	179899	6.90	113333	9.07
490-78053-8	BRMW-04-GW-HS-050715	223016	4.47	181652	6.90	112444	9.06
490-78053-9	BRMW-02-GW-HS-050715	216476	4.47	177010	6.90	111070	9.07
490-78053-10	BRMW-02-GW-HS-050715-FD	214500	4.47	176378	6.90	109526	9.06
490-78053-11	BRMW-11-GW-HS-050715	223117	4.47	179829	6.89	110718	9.06
490-78053-8 MS	BRMW-04-GW-HS-050715 MS	241876	4.47	192649	6.90	113818	9.07
490-78053-8 MSD	BRMW-04-GW-HS-050715 MSD	236406	4.47	190094	6.90	113037	9.07

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Sample No.: CCVIS 490-247169/3 Date Analyzed: 05/10/2015 16:17

Instrument ID: HP36 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 051015-003.D Heated Purge: (Y/N) N

Calibration ID: 41862

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		269328	4.47	223594	6.90	136203	9.06
UPPER LIMIT		538656	4.97	447188	7.40	272406	9.56
LOWER LIMIT		134664	3.97	111797	6.40	68102	8.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-247169/4		237342	4.47	195228	6.90	119819	9.06
LCSD 490-247169/8		221545	4.47	181476	6.90	110675	9.07
MB 490-247169/7		203105	4.47	170165	6.90	102439	9.06
490-78053-11 DL	BRMW-11-GW-HS-050715 DL	192126	4.47	159109	6.90	99739	9.06

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-78053-1

SDG No.:

Client Sample ID: SPMW-7-GW-HS-050715 | Lab Sample ID: 490-78053-4

Matrix: Water | Lab File ID: 050815-010.D

Analysis Method: 8260B | Date Collected: 05/07/2015 10:55

Sample wt/vol: 10(mL) | Date Analyzed: 05/08/2015 15:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 246854 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.819	J	1.00	0.250
156-59-2	cis-1,2-Dichloroethene	4.72		1.00	0.210
127-18-4	Tetrachloroethene	22.6		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	71.7		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
460-00-4	4-Bromofluorobenzene (Surr)	104		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-78053-1

SDG No.:

Client Sample ID: BRMW-04-GW-HS-050715 | Lab Sample ID: 490-78053-8

Matrix: Water | Lab File ID: 050815-011.D

Analysis Method: 8260B | Date Collected: 05/07/2015 15:15

Sample wt/vol: 10(mL) | Date Analyzed: 05/08/2015 15:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 246854 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
127-18-4	Tetrachloroethene	7.48		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
460-00-4	4-Bromofluorobenzene (Surr)	104		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-78053-1

SDG No.:

Client Sample ID: BRMW-02-GW-HS-050715 | Lab Sample ID: 490-78053-9

Matrix: Water | Lab File ID: 050815-012.D

Analysis Method: 8260B | Date Collected: 05/07/2015 17:00

Sample wt/vol: 10(mL) | Date Analyzed: 05/08/2015 15:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 246854 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
156-59-2	cis-1,2-Dichloroethene	1.17		1.00	0.210
127-18-4	Tetrachloroethene	59.3		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	140		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
460-00-4	4-Bromofluorobenzene (Surr)	106		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-78053-1

SDG No.:

Client Sample ID: BRMW-02-GW-HS-050715-FD | Lab Sample ID: 490-78053-10

Matrix: Water | Lab File ID: 050815-013.D

Analysis Method: 8260B | Date Collected: 05/07/2015 17:00

Sample wt/vol: 10(mL) | Date Analyzed: 05/08/2015 16:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 246854 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
156-59-2	cis-1,2-Dichloroethene	1.11		1.00	0.210
127-18-4	Tetrachloroethene	58.9		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	142		1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
460-00-4	4-Bromofluorobenzene (Surr)	105		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-78053-1

SDG No.:

Client Sample ID: BRMW-11-GW-HS-050715 | Lab Sample ID: 490-78053-11

Matrix: Water | Lab File ID: 050815-014.D

Analysis Method: 8260B | Date Collected: 05/07/2015 17:35

Sample wt/vol: 10(mL) | Date Analyzed: 05/08/2015 16:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 246854 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.514	J	1.00	0.250
156-59-2	cis-1,2-Dichloroethene	40.7		1.00	0.210
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
460-00-4	4-Bromofluorobenzene (Surr)	104		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-78053-1

SDG No.:

Client Sample ID: BRMW-11-GW-HS-050715 DL | Lab Sample ID: 490-78053-11 DL

Matrix: Water | Lab File ID: 051015-012.D

Analysis Method: 8260B | Date Collected: 05/07/2015 17:35

Sample wt/vol: 10(mL) | Date Analyzed: 05/10/2015 20:08

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 247169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	1420		20.0	2.80
79-01-6	Trichloroethene	2150		20.0	4.00

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-78053-1

SDG No.:

Client Sample ID: TB050715 | Lab Sample ID: 490-78053-12

Matrix: Water | Lab File ID: 050815-009.D

Analysis Method: 8260B | Date Collected: 05/06/2015 00:01

Sample wt/vol: 10(mL) | Date Analyzed: 05/08/2015 14:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 246854 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
460-00-4	4-Bromofluorobenzene (Surr)	104		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-78053-1 Analy Batch No.: 246484

SDG No.:

Instrument ID: HP36 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2015 17:23 Calibration End Date: 05/07/2015 21:15 Calibration ID: 41862

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 490-246484/11	050715-011.D
Level 2	STD 490-246484/12	050715-012.D
Level 3	STD 490-246484/13	050715-013.D
Level 4	STD 490-246484/14	050715-014.D
Level 5	STD 490-246484/15	050715-015.D
Level 6	STD 490-246484/16	050715-016.D
Level 7	ICIS 490-246484/17	050715-017.D
Level 8	STD 490-246484/18	050715-018.D
Level 9	STD 490-246484/19	050715-019.D
Level 10	STD 490-246484/20	050715-020.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Dichlorodifluoromethane	+++++ 0.2473	0.1091 0.2256	0.1913 0.2368	0.2250 0.2118	0.2423 0.1996	Lin2	-0.112	0.2333							0.9910		0.9900
Chloromethane	+++++ 0.2518	0.0561 0.2337	0.2437 0.2556	0.2617 0.2530	0.2580 0.2610	Lin1	-0.128	0.2574			0.1000				0.9990		0.9900
Vinyl chloride	+++++ 0.2856	0.1573 0.2688	0.2679 0.2857	0.2740 0.2662	0.2916 0.2627	Lin2	-0.105	0.2842							0.9940		0.9900
Butadiene	+++++ 0.2572	0.1244 0.2501	0.2199 0.2653	0.2491 0.2544	0.2641 0.2526	Lin2	-0.127	0.2641							0.9970		0.9900
Bromomethane	+++++ 0.1668	0.0235 0.1841	0.0650 0.2048	0.1040 +++++	0.1337 +++++	Lin1	-0.261	0.1961							0.9920		0.9900
Chloroethane	+++++ 0.2060	0.1064 0.1918	0.1844 0.2002	0.1987 0.1848	0.2051 +++++	Lin2	-0.084	0.2045							0.9940		0.9900
Dichlorofluoromethane	+++++ 0.5301	0.2738 0.4925	0.4832 0.5069	0.5221 0.4699	0.5336 0.4514	Lin2	-0.194	0.5144							0.9900		0.9900
Trichlorofluoromethane	+++++ 0.4578	0.2550 0.4316	0.4023 0.4750	0.4500 0.4333	0.4693 0.4280	Lin2	-0.182	0.4606							0.9960		0.9900
Ethanol	+++++ 0.0006	+++++ 0.0007	0.0003 0.0006	0.0005 +++++	0.0006 +++++	Lin2	-0.028	0.0007							0.9960		0.9900
Diethyl ether	+++++ 0.1676	0.0819 0.1614	0.1541 0.1659	0.1619 0.1538	0.1644 0.1526	Lin2	-0.070	0.1662							0.9930		0.9900
Acrolein	+++++ 0.0121	+++++ 0.0117	0.0063 0.0125	0.0096 0.0114	0.0115 0.0127	Lin2	-0.030	0.0123							0.9980		0.9900
1,1,2-Trichloro-1,2,2-trichfluoroethane	+++++ 0.2698	0.1301 0.2575	0.2263 0.2665	0.2510 0.2484	0.2729 0.2532	Lin2	-0.124	0.2677							0.9960		0.9900
1,1-Dichloroethene	+++++ 0.2625	0.1543 0.2448	0.2311 0.2685	0.2560 0.2482	0.2674 0.2453	Lin2	-0.095	0.2620							0.9960		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-78053-1 Analy Batch No.: 246484

SDG No.:

Instrument ID: HP36 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2015 17:23 Calibration End Date: 05/07/2015 21:15 Calibration ID: 41862

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Acetone	+++++ 0.0096	+++++ 0.0092	0.0104 0.0093	0.0091 0.0096	0.0097 0.0092	Ave		0.0095				4.4		15.0			
Iodomethane	+++++ 0.3829	+++++ 0.3832	0.2194 0.3559	0.3042 +++++	0.3559 +++++	Lin2	-0.328	0.3817							0.9980		0.9900
Isopropyl alcohol	+++++ 0.0047	+++++ 0.0046	0.0040 0.0049	0.0043 0.0051	0.0044 0.0055	Ave		0.0047				9.9		15.0			
Carbon disulfide	+++++ 0.7591	0.4721 0.7146	0.6964 0.7406	0.7691 0.6742	0.7719 +++++	Lin2	-0.238	0.7559							0.9940		0.9900
3-Chloro-1-propene	+++++ 0.2181	0.0925 0.1902	0.1750 0.2119	0.1834 0.2226	0.2017 0.2401	Lin2	-0.120	0.2179							0.9940		0.9900
Acetonitrile	+++++ 0.0520	+++++ 0.0491	0.0477 0.0481	0.0504 0.0435	0.0520 0.0433	Ave		0.0482				7.1		15.0			
Methyl acetate	+++++ 0.0952	0.0850 0.0911	0.0990 0.0907	0.0998 0.0868	0.0959 0.0851	Ave		0.0921				6.2		15.0			
Methylene Chloride	+++++ 0.2852	0.2080 0.2648	0.2841 0.2760	0.2767 0.2553	0.2846 0.2524	Lin2	-0.047	0.2751							0.9940		0.9900
tert-Butyl alcohol (TBA)	+++++ 0.0086	0.0056 0.0085	0.0070 0.0082	0.0075 0.0085	0.0081 0.0095	Lin2	-0.031	0.0086							0.9970		0.9900
Methyl tert-butyl ether	+++++ 0.5502	0.3770 0.5263	0.5477 0.5340	0.5394 0.5098	0.5493 0.4963	Lin2	-0.121	0.5399							0.9940		0.9900
trans-1,2-Dichloroethene	+++++ 0.3638	0.2176 0.3390	0.3259 0.3607	0.3530 0.3368	0.3633 0.3504	Lin2	-0.124	0.3606							0.9970		0.9900
Acrylonitrile	+++++ 0.0442	0.0330 0.0420	0.0411 0.0430	0.0424 0.0417	0.0441 0.0431	Lin2	-0.092	0.0435							0.9990		0.9900
Hexane	+++++ 0.3028	0.1598 0.2931	0.2581 0.3119	0.2954 0.2900	0.3171 0.2841	Lin2	-0.133	0.3071							0.9960		0.9900
Diisopropyl ether	+++++ 0.7469	0.5707 0.7089	0.7386 0.7342	0.7254 0.7091	0.7408 0.6647	Ave		0.7044				8.0		15.0			
1,1-Dichloroethane	+++++ 0.4878	0.3334 0.4560	0.4723 0.4898	0.4868 0.4779	0.4913 0.4797	Lin2	-0.130	0.4911			0.1000				0.9970		0.9900
Vinyl acetate	+++++ 0.0329	+++++ 0.0335	0.0277 0.0330	0.0290 0.0325	0.0324 0.0340	Ave		0.0319				7.1		15.0			
Chloroprene	+++++ 0.4293	0.2509 0.3919	0.3704 0.4185	0.4078 0.4016	0.4271 0.3881	Lin2	-0.148	0.4183							0.9960		0.9900
Ethyl tert-butyl ether	+++++ 0.6427	0.5055 0.6224	0.6247 0.6508	0.6296 0.6434	0.6442 0.6209	Ave		0.6205				7.2		15.0			
2,2-Dichloropropane	+++++ 0.4063	0.2395 0.3876	0.3636 0.4247	0.3917 0.4098	0.4014 0.3958	Lin2	-0.157	0.4129							0.9980		0.9900
cis-1,2-Dichloroethene	+++++ 0.4313	0.2947 0.4179	0.4061 0.4503	0.4259 0.4372	0.4303 0.4379	Lin2	-0.131	0.4421							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-78053-1 Analy Batch No.: 246484

SDG No.:

Instrument ID: HP36 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2015 17:23 Calibration End Date: 05/07/2015 21:15 Calibration ID: 41862

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Ethyl acetate	0.2059 0.2028	0.1638 0.2015	0.1954 0.2018	0.2045 0.2049	0.1988 0.2065	Ave		0.1986				6.4		15.0			
2-Butanone (MEK)	+++++ 0.0129	+++++ 0.0132	0.0108 0.0135	0.0113 0.0141	0.0121 0.0141	Ave		0.0128				9.8		15.0			
Propionitrile	+++++ 0.0141	0.0066 0.0144	0.0120 0.0150	0.0129 0.0150	0.0137 0.0153	Lin2	-0.079	0.0149							0.9990		0.9900
Methacrylonitrile	0.0779 0.0769	0.0608 0.0770	0.0749 0.0784	0.0759 0.0785	0.0770 0.0755	Ave		0.0753				6.9		15.0			
Bromochloromethane	+++++ 0.1798	0.1063 0.1747	0.1649 0.1762	0.1732 0.1721	0.1847 0.1652	Lin2	-0.062	0.1794							0.9960		0.9900
Tetrahydrofuran	+++++ 0.0315	+++++ 0.0318	0.0245 0.0336	0.0313 0.0346	0.0296 +++++	Lin2	-0.034	0.0331							0.9980		0.9900
Chloroform	+++++ 0.4892	0.4814 0.4702	0.5116 0.4944	0.4936 0.4687	0.4906 0.4567	Ave		0.4840				3.4		15.0			
1,1,1-Trichloroethane	+++++ 0.4388	0.2621 0.4280	0.3889 0.4617	0.4270 0.4427	0.4460 0.4253	Lin2	-0.171	0.4493							0.9980		0.9900
Cyclohexane	+++++ 0.4391	0.2135 0.4320	0.3748 0.4548	0.4199 0.4371	0.4416 0.4351	Lin2	-0.218	0.4510							0.9980		0.9900
1,1-Dichloropropene	+++++ 0.3773	0.2088 0.3720	0.3325 0.3956	0.3677 0.3821	0.3861 0.3732	Lin2	-0.165	0.3897							0.9980		0.9900
Carbon tetrachloride	+++++ 0.3992	0.2012 0.3949	0.3161 0.4236	0.3732 0.4116	0.3983 0.3969	Lin2	-0.205	0.4114							0.9990		0.9900
Isobutanol	+++++ 0.0046	+++++ 0.0047	0.0044 0.0046	0.0047 0.0047	0.0049 0.0047	Ave		0.0047				3.0		15.0			
t-Amyl alcohol	+++++ 0.0064	+++++ 0.0064	0.0057 0.0060	0.0060 0.0071	0.0063 +++++	Ave		0.0063				7.0		15.0			
Benzene	+++++ 1.1463	0.8285 1.0922	1.1134 1.1533	1.1386 1.0739	1.1425 0.9452	Lin2	-0.215	1.1155							0.9930		0.9900
Tert-amyl methyl ether	+++++ 0.5955	0.4633 0.6030	0.5784 0.6103	0.5743 0.6437	0.5977 0.6336	Lin2	-0.145	0.6193							0.9990		0.9900
1,2-Dichloroethane	+++++ 0.3048	0.2296 0.2996	0.2858 0.3122	0.2934 0.3051	0.3050 0.3006	Lin2	-0.071	0.3078							0.9990		0.9900
Heptane	+++++ 0.1859	0.0784 0.1822	0.1626 0.1840	0.1897 0.1891	0.1914 0.2031	Lin2	-0.105	0.1961							0.9950		0.9900
n-Butanol	+++++ 0.0018	+++++ 0.0019	0.0008 0.0019	0.0013 0.0021	0.0017 0.0024	Lin2	-0.068	0.0021							0.9910		0.9900
Trichloroethene	+++++ 0.3445	0.2250 0.3355	0.3300 0.3581	0.3412 0.3433	0.3507 0.3348	Lin2	-0.108	0.3519							0.9970		0.9900
Ethyl acrylate	+++++ 0.1501	+++++ 0.1559	+++++ 0.1533	0.1499 0.1613	0.1505 0.1677	Ave		0.1555				4.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-78053-1 Analy Batch No.: 246484

SDG No.:

Instrument ID: HP36 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2015 17:23 Calibration End Date: 05/07/2015 21:15 Calibration ID: 41862

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Methylcyclohexane	+++++ 0.4318	0.2323 0.4251	0.3521 0.4509	0.4164 0.4301	0.4487 0.4231	Lin2	-0.202	0.4434							0.9990		0.9900
1,2-Dichloropropane	+++++ 0.2545	0.1763 0.2505	0.2571 0.2665	0.2565 0.2598	0.2554 0.2590	Lin2	-0.071	0.2634							0.9970		0.9900
Methyl methacrylate	0.0714 0.0970	0.0699 0.1002	0.0919 0.0961	0.0944 0.1016	0.0974 0.1050	Lin2	-0.034	0.0990							0.9970		0.9900
1,4-Dioxane	+++++ 0.0009	+++++ 0.0009	+++++ 0.0010	+++++ 0.0011	0.0008 0.0012	Lin1	-0.118	0.0012							0.9920		0.9900
Dibromomethane	+++++ 0.1226	0.0820 0.1245	0.1090 0.1286	0.1241 0.1259	0.1238 0.1234	Lin2	-0.043	0.1271							0.9990		0.9900
Bromodichloromethane	+++++ 0.3502	0.2524 0.3490	0.3167 0.3706	0.3392 0.3608	0.3460 0.3538	Lin2	-0.103	0.3592							1.0000		0.9900
2-Nitropropane	+++++ 0.0580	+++++ 0.0601	0.0505 0.0579	0.0538 0.0662	0.0555 0.0733	Lin2	-0.059	0.0627							0.9910		0.9900
2-Chloroethyl vinyl ether	+++++ 0.0805	+++++ 0.0814	+++++ 0.0666	0.0667 0.0897	0.0773 +++++	Ave		0.0770				11.7		15.0			
cis-1,3-Dichloropropene	+++++ 0.4879	0.3523 0.4769	0.4378 0.5096	0.4896 0.4803	0.4798 0.4600	Lin2	-0.128	0.4905							0.9980		0.9900
4-Methyl-2-pentanone (MIBK)	+++++ 0.0489	0.0401 0.0501	0.0459 0.0488	0.0489 0.0499	0.0488 0.0516	Ave		0.0481				7.0		15.0			
Toluene	1.5106 1.5387	1.2530 1.4589	1.4784 1.5096	1.5667 1.3939	1.5715 1.1589	Ave		1.4440				9.5		15.0			
trans-1,3-Dichloropropene	+++++ 0.3864	0.2730 0.3846	0.3379 0.4069	0.3655 0.3908	0.3709 0.3779	Lin2	-0.115	0.3902							0.9990		0.9900
Ethyl methacrylate	+++++ 0.2255	0.1685 0.2285	0.2176 0.2205	0.2225 0.2326	0.2253 0.2410	Lin2	-0.057	0.2321							0.9990		0.9900
1,1,2-Trichloroethane	+++++ 0.2249	0.1650 0.2186	0.2127 0.2262	0.2291 0.2157	0.2255 0.2087	Lin2	-0.049	0.2244							0.9970		0.9900
Tetrachloroethene	+++++ 0.4817	0.3256 0.4547	0.4348 0.4839	0.4818 0.4618	0.4885 0.4377	Lin2	-0.132	0.4778							0.9970		0.9900
1,3-Dichloropropane	0.3871 0.3897	0.3365 0.3770	0.3676 0.3859	0.3902 0.3711	0.3907 0.3561	Ave		0.3752				4.8		15.0			
2-Hexanone	0.0220 0.0443	0.0307 0.0442	0.0421 0.0417	0.0449 0.0443	0.0439 0.0458	Lin2	-0.058	0.0449							0.9980		0.9900
n-Butyl acetate	+++++ 0.1658	+++++ 0.1639	+++++ 0.1522	0.1752 0.1615	0.1759 0.1740	Ave		0.1669				5.2		15.0			
Chlorodibromomethane	0.1467 0.2308	0.1517 0.2339	0.2014 0.2462	0.2233 0.2342	0.2232 0.2315	Lin2	-0.051	0.2320							0.9960		0.9900
1,2-Dibromoethane (EDB)	+++++ 0.2187	0.1569 0.2127	0.2013 0.2160	0.2158 0.2077	0.2152 0.2031	Lin2	-0.051	0.2160							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-78053-1 Analy Batch No.: 246484

SDG No.:

Instrument ID: HP36 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2015 17:23 Calibration End Date: 05/07/2015 21:15 Calibration ID: 41862

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Chlorobenzene	1.1338 1.0630	0.9470 1.0090	1.0457 1.0411	1.0689 0.9775	1.0671 0.8879	Ave		1.0241			0.3000	6.9		15.0			
Ethylbenzene	1.7307 1.7529	1.4344 1.6705	1.6324 1.7294	1.7518 1.5858	1.7667 1.2924	Ave		1.6347				9.7		15.0			
1,1,1,2-Tetrachloroethane	+++++ 0.3875	0.2771 0.3801	0.3381 0.4062	0.3694 0.3838	0.3873 0.3530	Lin2	-0.106	0.3869							0.9980		0.9900
m,p-Xylene	1.4128 1.3393	1.1307 1.2636	1.2637 1.3071	1.3485 1.2318	1.3540 1.0775	Ave		1.2729				8.2		15.0			
o-Xylene	1.4657 1.3866	1.1823 1.3254	1.3300 1.3697	1.3794 1.2762	1.3885 1.1289	Ave		1.3233				7.7		15.0			
Styrene	1.1541 1.1672	0.9410 1.1251	1.0558 1.1518	1.1572 1.0709	1.1642 0.9330	Ave		1.0920				8.3		15.0			
Bromoform	+++++ 0.1708	0.1034 0.1779	0.1330 0.1859	0.1492 0.1793	0.1592 0.1763	Lin2	-0.077	0.1756			0.1000				0.9980		0.9900
Isopropylbenzene	+++++ 1.7232	1.3105 1.6661	1.5885 1.7282	1.7290 1.5526	1.7551 1.2869	Ave		1.5933				11.3		15.0			
Cyclohexanone	+++++ 0.0058	+++++ 0.0060	+++++ 0.0052	0.0044 0.0069	0.0061 +++++	Ave		0.0057				14.7		15.0			
Bromobenzene	1.0017 0.9179	0.8290 0.9173	0.9364 0.9505	0.9454 0.9539	0.9559 0.9323	Ave		0.9340				4.7		15.0			
1,1,2,2-Tetrachloroethane	+++++ 0.3440	0.2394 0.3508	0.3302 0.3544	0.3535 0.3573	0.3543 0.3552	Lin2	-0.106	0.3599			0.3000				0.9990		0.9900
1,2,3-Trichloropropane	+++++ 0.3827	0.2685 0.3947	0.3587 0.3999	0.3744 0.4167	0.3842 0.4158	Lin2	-0.129	0.4043							0.9990		0.9900
trans-1,4-Dichloro-2-butene	+++++ 0.0938	+++++ 0.1005	0.0592 0.1006	0.0751 0.1089	0.0850 0.1118	Lin2	-0.097	0.1026							0.9950		0.9900
N-Propylbenzene	3.1664 3.1144	2.3864 3.0736	2.9189 3.0566	3.1190 2.8709	3.2173 2.3456	Ave		2.9269				10.7		15.0			
2-Chlorotoluene	1.9954 1.9190	1.6523 1.8326	1.8706 1.8547	1.9281 1.7772	1.8806 1.6295	Ave		1.8340				6.4		15.0			
1,3,5-Trimethylbenzene	2.2803 2.2764	1.7401 2.2147	2.0922 2.2536	2.2582 2.1266	2.3146 1.8497	Ave		2.1406				9.2		15.0			
4-Chlorotoluene	2.0499 1.9966	1.6615 1.9297	1.9402 1.9807	2.0069 1.8733	1.9509 1.7108	Ave		1.9101				6.7		15.0			
tert-Butylbenzene	1.9941 1.9344	1.5119 1.9352	1.7954 1.9877	1.9128 1.8805	2.0175 1.7125	Ave		1.8682				8.4		15.0			
1,2,4-Trimethylbenzene	2.4087 2.2729	1.9356 2.2877	2.2199 2.3480	2.2981 2.2178	2.3819 1.9133	Ave		2.2284				7.7		15.0			
sec-Butylbenzene	+++++ 2.6524	1.9526 2.5790	2.3896 2.6489	2.5809 2.4580	2.7449 2.1046	Lin2	-0.519	2.5656							0.9920		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-78053-1 Analy Batch No.: 246484

SDG No.:

Instrument ID: HP36 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2015 17:23 Calibration End Date: 05/07/2015 21:15 Calibration ID: 41862

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
p-Isopropyltoluene	2.3674 2.3921	1.8527 2.3500	2.1885 2.4382	2.3219 2.2595	2.4606 1.9332	Ave		2.2564				9.2		15.0			
1,3-Dichlorobenzene	1.5645 1.4276	1.2389 1.4038	1.3871 1.4521	1.4430 1.3792	1.4240 1.2696	Ave		1.3990				6.6		15.0			
1,2-Dichlorobenzene	1.4963 1.4313	1.3560 1.4143	1.4110 1.4523	1.4346 1.3767	1.4746 1.2791	Ave		1.4126				4.5		15.0			
1,2,3-Trimethylbenzene	2.3296 2.3294	2.1065 2.3161	2.2294 2.3775	2.3219 2.1850	2.3956 1.8677	Ave		2.2459				7.1		15.0			
Benzyl chloride	+++++ 0.3888	0.2790 0.4034	0.3170 0.4225	0.3494 0.4007	0.3702 0.3965	Lin2	-0.131	0.3972							0.9980		0.9900
n-Butylbenzene	+++++ 1.8225	1.3106 1.8010	1.5760 1.8863	1.7666 1.7398	1.8761 1.5432	Lin2	-0.458	1.7985							0.9950		0.9900
1,4-Dichlorobenzene	1.2510 1.2571	1.0553 1.2370	1.2208 1.2564	1.2434 1.1955	1.2613 1.1284	Ave		1.2106				5.6		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0693	+++++ 0.0704	+++++ 0.0712	0.0559 0.0734	0.0653 0.0730	Ave		0.0684				8.9		15.0			
1,3,5-Trichlorobenzene	0.9032 0.7984	0.7104 0.7908	0.7748 0.8091	0.8003 0.7894	0.8108 0.7512	Ave		0.7938				6.2		15.0			
1,2,4-Trichlorobenzene	0.7545 0.5664	0.6023 0.5657	0.5467 0.5649	0.5644 0.5679	0.5775 0.5517	Lin2	0.0860	0.5528							0.9980		0.9900
Hexachlorobutadiene	+++++ 0.3299	0.2512 0.3232	0.3095 0.3318	0.3260 0.3225	0.3449 0.3074	Lin2	-0.069	0.3308							0.9980		0.9900
Naphthalene	+++++ 0.8985	1.0161 0.8946	0.9624 0.8825	0.8785 0.9081	0.8999 0.9080	Ave		0.9165				4.9		15.0			
1,2,3-Trichlorobenzene	0.6288 0.3960	0.4607 0.3871	0.4232 0.3897	0.3985 0.3987	0.4068 0.3963	Lin2	0.1104	0.3857							0.9980		0.9900
Dibromofluoromethane (Surr)	0.2338 0.2407	0.2371 0.2409	0.2340 0.2500	0.2381 0.2514	0.2409 0.2445	Ave		0.2411				2.5		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2138 0.2194	0.2188 0.2215	0.2173 0.2304	0.2151 0.2454	0.2151 0.2693	Ave		0.2266				7.8		15.0			
Toluene-d8 (Surr)	1.1435 1.1854	1.1598 1.1576	1.1703 1.1780	1.2006 1.1715	1.1744 1.1416	Ave		1.1683				1.6		15.0			
4-Bromofluorobenzene (Surr)	0.6698 0.6890	0.6868 0.7037	0.7166 0.6873	0.7146 0.7183	0.7014 0.7098	Ave		0.6997				2.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-78053-1 Analy Batch No.: 246484

SDG No.:

Instrument ID: HP36 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2015 17:23 Calibration End Date: 05/07/2015 21:15 Calibration ID: 41862

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 490-246484/11	050715-011.D
Level 2	STD 490-246484/12	050715-012.D
Level 3	STD 490-246484/13	050715-013.D
Level 4	STD 490-246484/14	050715-014.D
Level 5	STD 490-246484/15	050715-015.D
Level 6	STD 490-246484/16	050715-016.D
Level 7	ICIS 490-246484/17	050715-017.D
Level 8	STD 490-246484/18	050715-018.D
Level 9	STD 490-246484/19	050715-019.D
Level 10	STD 490-246484/20	050715-020.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dichlorodifluoromethane	FB	Lin2	+++++ 44861	955 108262	3458 233250	10299 444678	22072 849007	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Chloromethane	FB	Lin1	+++++ 45666	491 112134	4405 251803	11977 531258	23505 1110114	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Vinyl chloride	FB	Lin2	+++++ 51798	1377 128953	4842 281421	12539 558978	26565 1117234	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Butadiene	FB	Lin2	+++++ 46660	1089 119976	3975 261318	11400 534158	24059 1074296	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Bromomethane	FB	Lin1	+++++ 30263	206 88352	1175 201779	4761 +++++	12182 +++++	+++++ 20.0	1.00 50.0	2.00 100	5.00 +++++	10.0 +++++
Chloroethane	FB	Lin2	+++++ 37358	932 92018	3333 197245	9093 388014	18679 +++++	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
Dichlorofluoromethane	FB	Lin2	+++++ 96151	2397 236320	8735 499364	23895 986779	48609 1920109	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Trichlorofluoromethane	FB	Lin2	+++++ 83034	2233 207072	7273 467961	20595 909928	42751 1820547	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Ethanol	FB	Lin2	+++++ 4636	+++++ 12493	227 24324	891 +++++	2347 +++++	+++++ 800	+++++ 2000	80.0 4000	200 +++++	400 +++++
Diethyl ether	FB	Lin2	+++++ 30395	717 77420	2786 163388	7412 322940	14973 648905	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Acrolein	FB	Lin2	+++++ 5500	+++++ 14022	286 30694	1102 59782	2620 134548	+++++ 50.0	+++++ 125	5.00 250	12.5 500	25.0 1000
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Lin2	+++++ 48934	1139 123528	4091 262496	11488 521567	24861 1076872	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1-Dichloroethene	FB	Lin2	+++++ 47610	1351 117443	4177 264553	11715 521148	24361 1043190	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Acetone	FB	Ave	+++++ 8709	+++++ 22122	938 45687	2074 100436	4411 195503	+++++ 100	+++++ 250	10.0 500	25.0 1000	50.0 2000

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-78053-1 Analy Batch No.: 246484

SDG No.:

Instrument ID: HP36 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2015 17:23 Calibration End Date: 05/07/2015 21:15 Calibration ID: 41862

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Iodomethane	FB	Lin2	+++++ 69456	+++++ 183884	3966 350561	13925 +++++	32421 +++++	+++++ 20.0	+++++ 50.0	2.00 100	5.00 +++++	10.0 +++++
Isopropyl alcohol	FB	Ave	+++++ 8479	+++++ 22008	726 48093	1987 106056	4036 234464	+++++ 200	+++++ 500	20.0 1000	50.0 2000	100 4000
Carbon disulfide	FB	Lin2	+++++ 137689	4133 342889	12588 729568	35201 1415792	70310 +++++	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
3-Chloro-1-propene	FB	Lin2	+++++ 39556	810 91270	3163 208713	8396 467497	18369 1021473	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Acetonitrile	FB	Ave	+++++ 94234	+++++ 235627	8616 473813	23068 913036	47379 1840814	+++++ 200	+++++ 500	20.0 1000	50.0 2000	100 4000
Methyl acetate	FB	Ave	+++++ 86344	3721 218537	8944 446645	22847 911724	43674 1810077	+++++ 100	5.00 250	10.0 500	25.0 1000	50.0 2000
Methylene Chloride	FB	Lin2	+++++ 51728	1821 127075	5135 271906	12666 536166	25922 1073522	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
tert-Butyl alcohol (TBA)	FB	Lin2	+++++ 15531	493 40661	1271 80397	3431 178574	7349 404317	+++++ 200	10.0 500	20.0 1000	50.0 2000	100 4000
Methyl tert-butyl ether	FB	Lin2	+++++ 99793	3301 252528	9901 526084	24687 1070495	50037 2111238	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
trans-1,2-Dichloroethene	FB	Lin2	+++++ 65993	1905 162645	5891 355334	16157 707160	33097 1490308	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Acrylonitrile	FB	Lin2	+++++ 80118	2890 201541	7438 423145	19401 876662	40147 1834170	+++++ 200	10.0 500	20.0 1000	50.0 2000	100 4000
Hexane	FB	Lin2	+++++ 54916	1399 140609	4665 307275	13521 608901	28885 1208405	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Diisopropyl ether	FB	Ave	+++++ 135482	4997 340141	13351 723325	33202 1488989	67484 2827361	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1-Dichloroethane	FB	Lin2	+++++ 88483	2919 218775	8537 482487	22278 1003548	44754 2040532	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Vinyl acetate	FB	Ave	+++++ 11926	+++++ 32133	1003 65059	2655 136601	5910 289328	+++++ 40.0	+++++ 100	4.00 200	10.0 400	20.0 800
Chloroprene	FB	Lin2	+++++ 77870	2197 188029	6696 412247	18665 843339	38904 1650777	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Ethyl tert-butyl ether	FB	Ave	+++++ 116587	4426 298618	11293 641101	28815 1350973	58679 2641095	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
2,2-Dichloropropane	FB	Lin2	+++++ 73690	2097 185963	6573 418436	17926 860518	36561 1683693	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
cis-1,2-Dichloroethene	FB	Lin2	+++++ 78235	2580 200525	7340 443638	19491 918164	39197 1862703	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Ethyl acetate	FB	Ave	1583 73564	2868 193382	7066 397689	18724 860477	36221 1757023	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0 800
2-Butanone (MEK)	FB	Ave	+++++ 11704	+++++ 31756	977 66660	2588 148514	5513 299882	+++++ 100	+++++ 250	10.0 500	25.0 1000	50.0 2000

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-78053-1 Analy Batch No.: 246484

SDG No.:

Instrument ID: HP36 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2015 17:23 Calibration End Date: 05/07/2015 21:15 Calibration ID: 41862

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Propionitrile	FB	Lin2	+++++ 25597	578 69168	2163 147907	5919 314852	12478 649233	+++++ 200	10.0 500	20.0 1000	50.0 2000	100 4000
Methacrylonitrile	FB	Ave	2995 139436	5325 369582	13541 772303	34752 1648000	70167 3210784	5.00 200	10.0 500	20.0 1000	50.0 2000	100 4000
Bromochloromethane	FB	Lin2	+++++ 32605	931 83836	2980 173608	7927 361395	16821 702760	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Tetrahydrofuran	FB	Lin2	+++++ 11445	+++++ 30509	886 66185	2862 145516	5393 +++++	+++++ 40.0	+++++ 100	4.00 200	10.0 400	20.0 +++++
Chloroform	FB	Ave	+++++ 88731	4215 225608	9247 487038	22592 984263	44692 1942619	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1,1-Trichloroethane	FB	Lin2	+++++ 79590	2295 205343	7029 454841	19543 929557	40623 1809035	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Cyclohexane	FB	Lin2	+++++ 79644	1869 207296	6775 447997	19218 917808	40229 1850700	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1-Dichloropropene	FB	Lin2	+++++ 68435	1828 178504	6011 389743	16828 802415	35166 1587421	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Carbon tetrachloride	FB	Lin2	+++++ 72414	1762 189490	5714 417270	17079 864299	36282 1688369	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Isobutanol	FB	Ave	+++++ 21029	+++++ 56088	1998 114231	5322 246282	11222 502389	+++++ 500	+++++ 1250	50.0 2500	125 5000	250 10000
t-Amyl alcohol	FB	Ave	+++++ 11642	+++++ 30736	1024 59471	2757 148254	5709 +++++	+++++ 200	+++++ 500	20.0 1000	50.0 2000	100 +++++
Benzene	FB	Lin2	+++++ 207924	7254 524031	20127 1136134	52111 2255159	104074 4020627	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Tert-amyl methyl ether	FB	Lin2	+++++ 108025	4056 289303	10455 601234	26283 1351760	54448 2695141	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2-Dichloroethane	FB	Lin2	+++++ 55288	2010 143749	5166 307555	13428 640744	27784 1278633	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Heptane	FB	Lin2	+++++ 33722	686 87409	2939 181291	8683 397018	17432 864032	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
n-Butanol	FB	Lin2	+++++ 8356	+++++ 23318	368 47021	1517 112504	3881 255772	+++++ 500	+++++ 1250	50.0 2500	125 5000	250 10000
Trichloroethene	FB	Lin2	+++++ 62491	1970 160986	5965 352730	15615 720995	31949 1424253	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Ethyl acrylate	FB	Ave	+++++ 27227	+++++ 74814	+++++ 151022	6859 338692	13710 713132	+++++ 20.0	+++++ 50.0	+++++ 100	5.00 200	10.0 400
Methylcyclohexane	FB	Lin2	+++++ 78327	2034 203943	6364 444175	19058 903265	40870 1799776	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2-Dichloropropane	FB	Lin2	+++++ 46170	1544 120208	4647 262495	11739 545573	23266 1101558	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Methyl methacrylate	FB	Lin2	549 35201	1224 96186	3321 189325	8642 426618	17739 893232	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0 800

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-78053-1 Analy Batch No.: 246484

SDG No.:

Instrument ID: HP36 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2015 17:23 Calibration End Date: 05/07/2015 21:15 Calibration ID: 41862

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,4-Dioxane	FB	Lin1	+++++ 3321	+++++ 8750	+++++ 19004	+++++ 44940	1435 104060	+++++ 400	+++++ 1000	+++++ 2000	+++++ 4000	200 8000
Dibromomethane	FB	Lin2	+++++ 22245	718 59725	1970 126651	5681 264314	11275 524780	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Bromodichloromethane	FB	Lin2	+++++ 63520	2210 167453	5725 365094	15524 757645	31513 1505067	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
2-Nitropropane	FB	Lin2	+++++ 21048	+++++ 57706	1824 114146	4926 277867	10107 623980	+++++ 40.0	+++++ 100	4.00 200	10.0 400	20.0 800
2-Chloroethyl vinyl ether	CBZ	Ave	+++++ 12182	+++++ 33146	+++++ 55351	2489 163705	5878 +++++	+++++ 20.0	+++++ 50.0	+++++ 100	5.00 200	10.0 +++++
cis-1,3-Dichloropropene	CBZ	Lin2	+++++ 73813	2610 194167	6517 423701	18279 876398	36489 1760452	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	+++++ 37003	1487 101892	3417 202764	9129 455603	18573 987386	+++++ 100	5.00 250	10.0 500	25.0 1000	50.0 2000
Toluene	CBZ	Ave	4975 232799	9282 593952	22009 1255112	58489 2543583	119513 4435385	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
trans-1,3-Dichloropropene	CBZ	Lin2	+++++ 58460	2022 156569	5030 338270	13646 713204	28208 1446466	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Ethyl methacrylate	CBZ	Lin2	+++++ 34114	1248 93034	3239 183336	8308 424525	17131 922263	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1,2-Trichloroethane	CBZ	Lin2	+++++ 34033	1222 88983	3166 188070	8554 393529	17151 798824	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Tetrachloroethene	CBZ	Lin2	+++++ 72878	2412 185104	6473 402355	17986 842699	37153 1675077	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,3-Dichloropropane	CBZ	Ave	1275 58955	2493 153499	5472 320849	14568 677237	29715 1362839	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
2-Hexanone	CBZ	Lin2	363 33502	1137 89880	3133 173533	8372 404290	16690 877083	2.50 100	5.00 250	10.0 500	25.0 1000	50.0 2000
n-Butyl acetate	FB	Ave	+++++ 30074	+++++ 78638	+++++ 149984	8019 339117	16022 740138	+++++ 20.0	+++++ 50.0	+++++ 100	5.00 200	10.0 400
Chlorodibromomethane	CBZ	Lin2	483 34919	1124 95226	2998 204699	8337 427429	16972 886011	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2-Dibromoethane (EDB)	CBZ	Lin2	+++++ 33082	1162 86592	2997 179609	8057 379004	16367 777382	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Chlorobenzene	CBZ	Ave	3734 160831	7015 410787	15567 865609	39905 1783787	81153 3398354	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Ethylbenzene	CBZ	Ave	5700 265205	10626 680113	24302 1437862	65401 2893655	134360 4946536	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1,1,2-Tetrachloroethane	CBZ	Lin2	+++++ 58627	2053 154745	5033 337744	13791 700409	29452 1351091	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
m,p-Xylene	CBZ	Ave	4653 202638	8376 514444	18813 1086720	50345 2247842	102973 4124133	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-78053-1 Analy Batch No.: 246484

SDG No.:

Instrument ID: HP36 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2015 17:23 Calibration End Date: 05/07/2015 21:15 Calibration ID: 41862

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
o-Xylene	CBZ	Ave	4827 209793	8758 539601	19799 1138782	51497 2328725	105599 4320613	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Styrene	CBZ	Ave	3801 176596	6971 458045	15718 957582	43200 1954157	88537 3570932	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Bromoform	CBZ	Lin2	+++++ 25841	766 72433	1980 154564	5569 327235	12111 674576	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Isopropylbenzene	CBZ	Ave	+++++ 260720	9708 678306	23648 1436792	64550 2833060	133477 4925337	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Cyclohexanone	FB	Ave	+++++ 10611	+++++ 28941	+++++ 51330	2017 144599	5514 +++++	+++++ 200	+++++ 500	+++++ 1000	50.0 2000	100 +++++
Bromobenzene	DCB	Ave	2278 88225	3851 233267	8796 499235	22407 1049666	45449 2143926	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1,2,2-Tetrachloroethane	DCB	Lin2	+++++ 33060	1112 89201	3102 186154	8379 393122	16847 816896	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2,3-Trichloropropane	DCB	Lin2	+++++ 36782	1247 100374	3369 210042	8873 458511	18268 956310	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
trans-1,4-Dichloro-2-butene	DCB	Lin2	+++++ 9015	+++++ 25564	556 52850	1781 119778	4041 257008	+++++ 20.0	+++++ 50.0	2.00 100	5.00 200	10.0 400
N-Propylbenzene	DCB	Ave	7201 299339	11085 781606	27418 1605367	73927 3159045	152966 5394083	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
2-Chlorotoluene	DCB	Ave	4538 184448	7675 466031	17571 974078	45700 1955545	89415 3747253	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,3,5-Trimethylbenzene	DCB	Ave	5186 218801	8083 563185	19653 1183590	53524 2340016	110048 4253699	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
4-Chlorotoluene	DCB	Ave	4662 191910	7718 490715	18225 1040257	47567 2061267	92758 3934175	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
tert-Butylbenzene	DCB	Ave	4535 185930	7023 492109	16865 1043966	45336 2069252	95922 3938249	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2,4-Trimethylbenzene	DCB	Ave	5478 218459	8991 581758	20852 1233165	54469 2440335	113246 4399915	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
sec-Butylbenzene	DCB	Lin2	+++++ 254935	9070 655823	22446 1391243	61171 2704707	130509 4839918	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
p-Isopropyltoluene	DCB	Ave	5384 229921	8606 597603	20557 1280572	55033 2486223	116989 4445809	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,3-Dichlorobenzene	DCB	Ave	3558 137217	5755 356979	13029 762630	34201 1517647	67706 2919639	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2-Dichlorobenzene	DCB	Ave	3403 137568	6299 359640	13254 762748	34003 1514871	70109 2941546	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2,3-Trimethylbenzene	DCB	Ave	5298 223893	9785 588981	20941 1248686	55034 2404217	113901 4295091	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Benzyl chloride	CBZ	Lin2	+++++ 58831	2067 164235	4719 351253	13043 731194	28158 1517655	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-78053-1 Analy Batch No.: 246484

SDG No.:

Instrument ID: HP36 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2015 17:23 Calibration End Date: 05/07/2015 21:15 Calibration ID: 41862

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
n-Butylbenzene	DCB	Lin2	+++++ 175173	6088 457992	14804 990690	41871 1914421	89200 3548816	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,4-Dichlorobenzene	DCB	Ave	2845 120826	4902 314572	11467 659877	29470 1315511	59970 2594891	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2-Dibromo-3-Chloropropane	DCB	Ave	+++++ 6657	+++++ 17896	+++++ 37410	1326 80768	3104 167836	+++++ 20.0	+++++ 50.0	+++++ 100	5.00 200	10.0 400
1,3,5-Trichlorobenzene	DCB	Ave	2054 76735	3300 201105	7278 424925	18969 868589	38548 1727407	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2,4-Trichlorobenzene	DCB	Lin2	1716 54443	2798 143860	5135 296699	13377 624934	27456 1268805	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Hexachlorobutadiene	DCB	Lin2	+++++ 31708	1167 82181	2907 174289	7726 354910	16397 706942	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Naphthalene	DCB	Ave	+++++ 86358	4720 227492	9040 463489	20823 999246	42787 2088201	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2,3-Trichlorobenzene	DCB	Lin2	1430 38063	2140 98442	3975 204652	9445 438719	19342 911354	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Dibromofluoromethane (Surr)	FB	Ave	44938 54573	51906 57801	52866 61571	54478 65976	54858 64993	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	41103 49742	47900 53141	49105 56747	49225 64407	48976 71580	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0
Toluene-d8 (Surr)	CBZ	Ave	188302 224175	214784 235645	217782 244845	224111 267205	223287 273088	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0
4-Bromofluorobenzene (Surr)	DCB	Ave	76169 82779	79761 89468	84135 90250	84683 98803	83371 102018	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Lab Sample ID: ICV 490-246484/24 Calibration Date: 05/07/2015 22:58

Instrument ID: HP36 Calib Start Date: 05/07/2015 17:23

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/07/2015 21:15

Lab File ID: 050715-024.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin2		0.2332		50.5	50.0	0.9	30.0
Chloromethane	Lin1		0.2226	0.1000	43.7	50.0	-12.6	30.0
Vinyl chloride	Lin2		0.2583		45.8	50.0	-8.4	30.0
Butadiene	Lin2		0.2395		45.8	50.0	-8.4	30.0
Bromomethane	Lin1	0.1260	0.1589		41.9	50.0	-16.3	30.0
Chloroethane	Lin2	0.1847	0.1800		44.4	50.0	-11.1	30.0
Dichlorofluoromethane	Lin2		0.4717		46.2	50.0	-7.6	30.0
Trichlorofluoromethane	Lin2		0.4069		44.6	50.0	-10.9	30.0
Ethanol	Lin2	0.0006	0.0006		2310	2500	-7.6	30.0
Diethyl ether	Lin2		0.1650		50.0	50.0	0.0	30.0
Acrolein	Lin2		0.0205		211	125	68.6*	30.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Lin2		0.2610		49.2	50.0	-1.6	30.0
1,1-Dichloroethene	Lin2		0.2485		47.8	50.0	-4.4	30.0
Acetone	Ave	0.0095	0.0095		249	250	-0.4	30.0
Isopropyl alcohol	Ave	0.0047	0.0046		489	500	-2.2	30.0
Iodomethane	Lin2	0.3336	0.5044		66.9	50.0	33.9*	30.0
Carbon disulfide	Lin2	0.6997	0.7637		50.8	50.0	1.7	30.0
3-Chloro-1-propene	Lin2		0.2076		48.2	50.0	-3.6	30.0
Acetonitrile	Ave	0.0482	0.0488		505	500	1.1	30.0
Methyl acetate	Ave	0.0921	0.0992		269	250	7.7	30.0
Methylene Chloride	Lin2		0.2735		49.9	50.0	-0.2	30.0
tert-Butyl alcohol (TBA)	Lin2		0.0089		521	500	4.3	30.0
Methyl tert-butyl ether	Lin2		0.5508		51.2	50.0	2.5	30.0
trans-1,2-Dichloroethene	Lin2		0.3679		51.4	50.0	2.7	30.0
Acrylonitrile	Lin2		0.0445		513	500	2.6	30.0
Hexane	Lin2		0.3082		50.6	50.0	1.2	30.0
Diisopropyl ether	Ave	0.7044	0.7669		54.4	50.0	8.9	30.0
1,1-Dichloroethane	Lin2		0.5012	0.1000	51.3	50.0	2.6	30.0
Vinyl acetate	Ave	0.0319	0.0364		114	100	14.1	30.0
Chloroprene	Lin2		0.4352		52.4	50.0	4.7	30.0
Ethyl tert-butyl ether	Ave	0.6205	0.6716		54.1	50.0	8.2	30.0
2,2-Dichloropropane	Lin2		0.4047		49.4	50.0	-1.2	30.0
cis-1,2-Dichloroethene	Lin2		0.4436		50.5	50.0	0.9	30.0
2-Butanone (MEK)	Ave	0.0128	0.0144		282	250	12.7	30.0
Ethyl acetate	Ave	0.1986	0.1870		94.1	100	-5.9	30.0
Propionitrile	Lin2		0.0152		515	500	3.0	30.0
Methacrylonitrile	Ave	0.0753	0.0833		553	500	10.7	30.0
Bromochloromethane	Lin2		0.1838		51.6	50.0	3.1	30.0
Tetrahydrofuran	Lin2	0.0310	0.0323		98.4	100	-1.6	30.0
Chloroform	Ave	0.4840	0.5119		52.9	50.0	5.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Lab Sample ID: ICV 490-246484/24 Calibration Date: 05/07/2015 22:58

Instrument ID: HP36 Calib Start Date: 05/07/2015 17:23

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/07/2015 21:15

Lab File ID: 050715-024.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Lin2		0.4641		52.0	50.0	4.1	30.0
Cyclohexane	Lin2		0.4689		52.5	50.0	4.9	30.0
1,1-Dichloropropene	Lin2		0.4081		52.8	50.0	5.6	30.0
Carbon tetrachloride	Lin2		0.4367		53.6	50.0	7.1	30.0
Isobutanol	Ave	0.0047	0.0050		1338	1250	7.0	30.0
t-Amyl alcohol	Ave	0.0063	0.0069		547	500	9.4	30.0
Benzene	Lin2		1.180		53.1	50.0	6.2	30.0
Tert-amyl methyl ether	Lin2		0.6481		52.6	50.0	5.1	30.0
1,2-Dichloroethane	Lin2		0.3223		52.6	50.0	5.2	30.0
Heptane	Lin2		0.2026		52.2	50.0	4.4	30.0
n-Butanol	Lin2		0.0020		1258	1250	0.6	30.0
Trichloroethene	Lin2		0.3639		52.0	50.0	4.0	30.0
Ethyl acrylate	Ave	0.1555	0.1688		54.3	50.0	8.6	
Methylcyclohexane	Lin2		0.4533		51.6	50.0	3.1	30.0
1,2-Dichloropropane	Lin2		0.2704		51.6	50.0	3.2	30.0
Methyl methacrylate	Lin2		0.1069		108	100	8.3	30.0
1,4-Dioxane	Lin1		0.0010		925	1000	-7.5	30.0
Dibromomethane	Lin2		0.1326		52.5	50.0	4.9	30.0
Bromodichloromethane	Lin2		0.3774		52.8	50.0	5.6	30.0
2-Chloroethyl vinyl ether	Ave	0.0770	0.1013		65.7	50.0	31.4*	30.0
2-Nitropropane	Lin2		0.0684		110	100	10.0	30.0
cis-1,3-Dichloropropene	Lin2		0.5128		52.5	50.0	5.1	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0481	0.0552		287	250	14.8	30.0
Toluene	Ave	1.444	1.566		54.2	50.0	8.4	30.0
trans-1,3-Dichloropropene	Lin2		0.4216		54.3	50.0	8.6	30.0
Ethyl methacrylate	Lin2		0.2526		54.7	50.0	9.3	30.0
1,1,2-Trichloroethane	Lin2		0.2328		52.1	50.0	4.2	30.0
Tetrachloroethene	Lin2		0.4838		50.9	50.0	1.8	30.0
1,3-Dichloropropane	Ave	0.3752	0.3930		52.4	50.0	4.7	30.0
2-Hexanone	Lin2		0.0479		268	250	7.1	30.0
n-Butyl acetate	Ave	0.1669	0.1363		40.8	50.0	-18.3	30.0
Chlorodibromomethane	Lin2		0.2470		53.5	50.0	6.9	30.0
1,2-Dibromoethane (EDB)	Lin2		0.2244		52.2	50.0	4.4	30.0
Chlorobenzene	Ave	1.024	1.068	0.3000	52.1	50.0	4.3	30.0
Ethylbenzene	Ave	1.635	1.779		54.4	50.0	8.8	30.0
1,1,1,2-Tetrachloroethane	Lin2		0.3998		51.9	50.0	3.9	30.0
m,p-Xylene	Ave	1.273	1.343		52.8	50.0	5.5	30.0
o-Xylene	Ave	1.323	1.401		53.0	50.0	5.9	30.0
Styrene	Ave	1.092	1.169		53.5	50.0	7.1	30.0
Bromoform	Lin2		0.1990	0.1000	57.1	50.0	14.2	30.0
Isopropylbenzene	Ave	1.593	1.780		55.9	50.0	11.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Lab Sample ID: ICV 490-246484/24 Calibration Date: 05/07/2015 22:58

Instrument ID: HP36 Calib Start Date: 05/07/2015 17:23

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/07/2015 21:15

Lab File ID: 050715-024.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Cyclohexanone	Ave	0.0057	0.0029		253	500	-49.4*	30.0
1,1,2,2-Tetrachloroethane	Lin2		0.3788	0.3000	52.9	50.0	5.8	30.0
Bromobenzene	Ave	0.9340	0.9812		52.5	50.0	5.0	30.0
trans-1,4-Dichloro-2-butene	Lin2		0.1056		52.4	50.0	4.7	30.0
1,2,3-Trichloropropane	Lin2		0.4354		54.2	50.0	8.3	30.0
N-Propylbenzene	Ave	2.927	3.209		54.8	50.0	9.6	30.0
2-Chlorotoluene	Ave	1.834	1.972		53.8	50.0	7.5	30.0
1,3,5-Trimethylbenzene	Ave	2.141	2.348		54.8	50.0	9.7	30.0
4-Chlorotoluene	Ave	1.910	2.070		54.2	50.0	8.4	30.0
tert-Butylbenzene	Ave	1.868	2.016		54.0	50.0	7.9	30.0
1,2,4-Trimethylbenzene	Ave	2.228	2.398		53.8	50.0	7.6	30.0
sec-Butylbenzene	Lin2		2.707		53.0	50.0	5.9	30.0
p-Isopropyltoluene	Ave	2.256	2.418		53.6	50.0	7.2	30.0
1,3-Dichlorobenzene	Ave	1.399	1.473		52.6	50.0	5.3	30.0
1,2-Dichlorobenzene	Ave	1.413	1.511		53.5	50.0	7.0	30.0
1,2,3-Trimethylbenzene	Ave	2.246	2.387		53.1	50.0	6.3	30.0
Benzyl chloride	Lin2		0.4112		52.1	50.0	4.2	30.0
n-Butylbenzene	Lin2		1.852		51.7	50.0	3.5	30.0
1,4-Dichlorobenzene	Ave	1.211	1.303		53.8	50.0	7.6	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0684	0.0789		57.7	50.0	15.4	30.0
1,3,5-Trichlorobenzene	Ave	0.7938	0.8098		51.0	50.0	2.0	30.0
1,2,4-Trichlorobenzene	Lin2		0.5962		53.8	50.0	7.5	30.0
Hexachlorobutadiene	Lin2		0.3503		53.2	50.0	6.3	30.0
Naphthalene	Ave	0.9165	0.9859		53.8	50.0	7.6	30.0
1,2,3-Trichlorobenzene	Lin2		0.4301		55.5	50.0	10.9	30.0
Dibromofluoromethane (Surr)	Ave	0.2411	0.2455		25.5	25.0	1.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2266	0.2264		25.0	25.0	-0.0	30.0
Toluene-d8 (Surr)	Ave	1.168	1.169		25.0	25.0	0.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.6997	0.7067		25.3	25.0	1.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Lab Sample ID: CCVIS 490-246854/2 Calibration Date: 05/08/2015 11:34

Instrument ID: HP36 Calib Start Date: 05/07/2015 17:23

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/07/2015 21:15

Lab File ID: 050815-002.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin2		0.2201		47.7	50.0	-4.7	20.0
Chloromethane	Lin1		0.2419	0.1000	47.5	50.0	-5.0	20.0
Vinyl chloride	Lin2		0.2819		50.0	50.0	-0.0	20.0
Butadiene	Lin2		0.2630		50.3	50.0	0.5	20.0
Bromomethane	Lin1	0.1260	0.1551		40.9	50.0	-18.2	20.0
Chloroethane	Lin2	0.1847	0.1770		43.7	50.0	-12.6	20.0
Dichlorofluoromethane	Lin2		0.4523		44.3	50.0	-11.3	20.0
Trichlorofluoromethane	Lin2		0.3974		43.5	50.0	-12.9	20.0
Ethanol	Lin2	0.0006	0.0006		1833	2000	-8.3	40.0
Diethyl ether	Lin2		0.1513		45.9	50.0	-8.1	20.0
Acrolein	Lin2		0.0113		117	125	-6.2	40.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Lin2		0.2373		44.8	50.0	-10.4	20.0
1,1-Dichloroethene	Lin2		0.2234		43.0	50.0	-14.0	20.0
Acetone	Ave	0.0095	0.0092		241	250	-3.7	20.0
Isopropyl alcohol	Ave	0.0047	0.0043		460	500	-8.1	20.0
Iodomethane	Lin2	0.3336	0.3402		45.4	50.0	-9.2	20.0
Carbon disulfide	Lin2	0.6997	0.6675		44.5	50.0	-11.1	20.0
3-Chloro-1-propene	Lin2		0.1743		40.5	50.0	-18.9	20.0
Acetonitrile	Ave	0.0482	0.0450		467	500	-6.7	20.0
Methyl acetate	Ave	0.0921	0.0843		229	250	-8.5	20.0
Methylene Chloride	Lin2		0.2432		44.4	50.0	-11.2	20.0
tert-Butyl alcohol (TBA)	Lin2		0.0076		448	500	-10.4	40.0
Methyl tert-butyl ether	Lin2		0.4908		45.7	50.0	-8.7	20.0
trans-1,2-Dichloroethene	Lin2		0.3137		43.9	50.0	-12.3	20.0
Acrylonitrile	Lin2		0.0393		454	500	-9.2	20.0
Hexane	Lin2		0.3059		50.2	50.0	0.5	20.0
Diisopropyl ether	Ave	0.7044	0.6816		48.4	50.0	-3.2	20.0
1,1-Dichloroethane	Lin2		0.4379	0.1000	44.9	50.0	-10.3	20.0
Vinyl acetate	Ave	0.0319	0.0307		96.4	100	-3.6	40.0
Chloroprene	Lin2		0.3763		45.3	50.0	-9.3	20.0
Ethyl tert-butyl ether	Ave	0.6205	0.6261		50.5	50.0	0.9	20.0
2,2-Dichloropropane	Lin2		0.3987		48.7	50.0	-2.7	20.0
cis-1,2-Dichloroethene	Lin2		0.4123		46.9	50.0	-6.2	20.0
2-Butanone (MEK)	Ave	0.0128	0.0129		253	250	1.3	20.0
Ethyl acetate	Ave	0.1986	0.1991		100	100	0.2	20.0
Propionitrile	Lin2		0.0142		482	500	-3.6	20.0
Methacrylonitrile	Ave	0.0753	0.0765		508	500	1.6	20.0
Bromochloromethane	Lin2		0.1648		46.3	50.0	-7.4	20.0
Tetrahydrofuran	Lin2	0.0310	0.0332		101	100	1.1	20.0
Chloroform	Ave	0.4840	0.4545		47.0	50.0	-6.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Lab Sample ID: CCVIS 490-246854/2 Calibration Date: 05/08/2015 11:34

Instrument ID: HP36 Calib Start Date: 05/07/2015 17:23

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/07/2015 21:15

Lab File ID: 050815-002.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Lin2		0.4139		46.4	50.0	-7.1	20.0
Cyclohexane	Lin2		0.4227		47.3	50.0	-5.3	20.0
1,1-Dichloropropene	Lin2		0.3625		46.9	50.0	-6.1	20.0
Carbon tetrachloride	Lin2		0.3821		46.9	50.0	-6.1	20.0
t-Amyl alcohol	Ave	0.0063	0.0063		500	500	0.0	40.0
Isobutanol	Ave	0.0047	0.0048		1295	1250	3.6	20.0
Benzene	Lin2		1.069		48.1	50.0	-3.8	20.0
Tert-amyl methyl ether	Lin2		0.5898		47.9	50.0	-4.3	20.0
1,2-Dichloroethane	Lin2		0.2939		48.0	50.0	-4.1	20.0
Heptane	Lin2		0.2248		57.9	50.0	15.7	20.0
n-Butanol	Lin2		0.0018		1143	1250	-8.6	20.0
Trichloroethene	Lin2		0.3267		46.7	50.0	-6.6	20.0
Ethyl acrylate	Ave	0.1555	0.1528		49.1	50.0	-1.8	20.0
Methylcyclohexane	Lin2		0.4235		48.2	50.0	-3.6	20.0
1,2-Dichloropropane	Lin2		0.2460		47.0	50.0	-6.0	20.0
Methyl methacrylate	Lin2		0.0965		97.8	100	-2.2	20.0
1,4-Dioxane	Lin1		0.0009		843	1000	-15.7	20.0
Dibromomethane	Lin2		0.1203		47.7	50.0	-4.7	20.0
Bromodichloromethane	Lin2		0.3404		47.7	50.0	-4.7	20.0
2-Nitropropane	Lin2		0.0606		97.6	100	-2.4	20.0
2-Chloroethyl vinyl ether	Ave	0.0770	0.0856		55.6	50.0	11.1	20.0
cis-1,3-Dichloropropene	Lin2		0.5000		51.2	50.0	2.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0481	0.0514		267	250	6.8	20.0
Toluene	Ave	1.444	1.469		50.9	50.0	1.7	20.0
trans-1,3-Dichloropropene	Lin2		0.3972		51.2	50.0	2.4	20.0
Ethyl methacrylate	Lin2		0.2319		50.2	50.0	0.4	20.0
1,1,2-Trichloroethane	Lin2		0.2248		50.3	50.0	0.6	20.0
Tetrachloroethene	Lin2		0.4721		49.7	50.0	-0.6	20.0
1,3-Dichloropropane	Ave	0.3752	0.3837		51.1	50.0	2.3	20.0
2-Hexanone	Lin2		0.0454		254	250	1.7	20.0
n-Butyl acetate	Ave	0.1669	0.1600		47.9	50.0	-4.2	20.0
Chlorodibromomethane	Lin2		0.2371		51.3	50.0	2.6	20.0
1,2-Dibromoethane (EDB)	Lin2		0.2139		49.8	50.0	-0.5	20.0
Chlorobenzene	Ave	1.024	1.004	0.3000	49.0	50.0	-2.0	20.0
Ethylbenzene	Ave	1.635	1.673		51.2	50.0	2.3	20.0
1,1,1,2-Tetrachloroethane	Lin2		0.3783		49.2	50.0	-1.7	20.0
m,p-Xylene	Ave	1.273	1.282		50.4	50.0	0.7	20.0
o-Xylene	Ave	1.323	1.332		50.3	50.0	0.6	20.0
Styrene	Ave	1.092	1.111		50.9	50.0	1.8	20.0
Bromoform	Lin2		0.1763	0.1000	50.6	50.0	1.2	20.0
Isopropylbenzene	Ave	1.593	1.662		52.2	50.0	4.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Lab Sample ID: CCVIS 490-246854/2 Calibration Date: 05/08/2015 11:34

Instrument ID: HP36 Calib Start Date: 05/07/2015 17:23

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/07/2015 21:15

Lab File ID: 050815-002.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Cyclohexanone	Ave	0.0057	0.0069		600	500	20.1*	20.0
1,1,2,2-Tetrachloroethane	Lin2		0.3502	0.3000	48.9	50.0	-2.1	20.0
Bromobenzene	Ave	0.9340	0.9223		49.4	50.0	-1.3	20.0
1,2,3-Trichloropropane	Lin2		0.4053		50.4	50.0	0.9	20.0
trans-1,4-Dichloro-2-butene	Lin2		0.1028		51.0	50.0	2.1	20.0
N-Propylbenzene	Ave	2.927	3.058		52.2	50.0	4.5	20.0
2-Chlorotoluene	Ave	1.834	1.803		49.2	50.0	-1.7	20.0
1,3,5-Trimethylbenzene	Ave	2.141	2.172		50.7	50.0	1.5	20.0
4-Chlorotoluene	Ave	1.910	1.906		49.9	50.0	-0.2	20.0
tert-Butylbenzene	Ave	1.868	1.877		50.2	50.0	0.5	20.0
1,2,4-Trimethylbenzene	Ave	2.228	2.233		50.1	50.0	0.2	20.0
sec-Butylbenzene	Lin2		2.547		49.8	50.0	-0.3	20.0
p-Isopropyltoluene	Ave	2.256	2.321		51.4	50.0	2.9	20.0
1,3-Dichlorobenzene	Ave	1.399	1.371		49.0	50.0	-2.0	20.0
1,2-Dichlorobenzene	Ave	1.413	1.395		49.4	50.0	-1.2	20.0
1,2,3-Trimethylbenzene	Ave	2.246	2.265		50.4	50.0	0.8	20.0
Benzyl chloride	Lin2		0.4520		57.2	50.0	14.5	20.0
n-Butylbenzene	Lin2		1.770		49.5	50.0	-1.1	20.0
1,4-Dichlorobenzene	Ave	1.211	1.193		49.3	50.0	-1.5	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0684	0.0696		50.9	50.0	1.8	20.0
1,3,5-Trichlorobenzene	Ave	0.7938	0.7807		49.2	50.0	-1.7	20.0
1,2,4-Trichlorobenzene	Lin2		0.5456		49.2	50.0	-1.6	20.0
Hexachlorobutadiene	Lin2		0.3176		48.2	50.0	-3.6	20.0
Naphthalene	Ave	0.9165	0.8657		47.2	50.0	-5.5	20.0
1,2,3-Trichlorobenzene	Lin2		0.3860		49.8	50.0	-0.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2411	0.2433		25.2	25.0	0.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2266	0.2227		24.6	25.0	-1.7	30.0
Toluene-d8 (Surr)	Ave	1.168	1.221		26.1	25.0	4.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.6997	0.7127		25.5	25.0	1.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Lab Sample ID: CCVIS 490-247169/3 Calibration Date: 05/10/2015 16:17

Instrument ID: HP36 Calib Start Date: 05/07/2015 17:23

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/07/2015 21:15

Lab File ID: 051015-003.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin2		0.2295		49.7	50.0	-0.7	20.0
Chloromethane	Lin1		0.2238	0.1000	44.0	50.0	-12.1	20.0
Vinyl chloride	Lin2		0.2545		45.2	50.0	-9.7	20.0
Butadiene	Lin2		0.2391		45.8	50.0	-8.5	20.0
Bromomethane	Lin1	0.1260	0.1303		34.6	50.0	-30.9*	20.0
Chloroethane	Lin2	0.1847	0.1538		38.0	50.0	-24.0*	20.0
Dichlorofluoromethane	Lin2		0.4148		40.7	50.0	-18.6	20.0
Trichlorofluoromethane	Lin2		0.3805		41.7	50.0	-16.6	20.0
Ethanol	Lin2	0.0006	0.0004		1088	2000	-45.6*	40.0
Diethyl ether	Lin2		0.1422		43.2	50.0	-13.6	20.0
Acrolein	Lin2		0.0107		111	125	-11.1	40.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Lin2		0.2143		40.5	50.0	-19.0	20.0
1,1-Dichloroethene	Lin2		0.1990		38.3	50.0	-23.3*	20.0
Acetone	Ave	0.0095	0.0087		230	250	-8.0	20.0
Iodomethane	Lin2	0.3336	0.2535		34.1	50.0	-31.9*	20.0
Isopropyl alcohol	Ave	0.0047	0.0041		437	500	-12.7	20.0
Carbon disulfide	Lin2	0.6997	0.6135		40.9	50.0	-18.2	20.0
3-Chloro-1-propene	Lin2		0.1832		42.6	50.0	-14.9	20.0
Acetonitrile	Ave	0.0482	0.0407		422	500	-15.6	20.0
Methyl acetate	Ave	0.0921	0.0808		219	250	-12.2	20.0
Methylene Chloride	Lin2		0.2204		40.2	50.0	-19.5	20.0
tert-Butyl alcohol (TBA)	Lin2		0.0072		420	500	-15.9	40.0
Methyl tert-butyl ether	Lin2		0.4774		44.4	50.0	-11.1	20.0
trans-1,2-Dichloroethene	Lin2		0.2927		40.9	50.0	-18.1	20.0
Acrylonitrile	Lin2		0.0380		439	500	-12.3	20.0
Hexane	Lin2		0.3010		49.4	50.0	-1.1	20.0
Diisopropyl ether	Ave	0.7044	0.6423		45.6	50.0	-8.8	20.0
1,1-Dichloroethane	Lin2		0.3958	0.1000	40.6	50.0	-18.9	20.0
Vinyl acetate	Ave	0.0319	0.0290		91.1	100	-8.9	40.0
Chloroprene	Lin2		0.3498		42.2	50.0	-15.7	20.0
Ethyl tert-butyl ether	Ave	0.6205	0.6035		48.6	50.0	-2.7	20.0
2,2-Dichloropropane	Lin2		0.3748		45.8	50.0	-8.5	20.0
cis-1,2-Dichloroethene	Lin2		0.3868		44.0	50.0	-11.9	20.0
2-Butanone (MEK)	Ave	0.0128	0.0124		243	250	-2.9	20.0
Ethyl acetate	Ave	0.1986	0.1928		97.1	100	-2.9	20.0
Propionitrile	Lin2		0.0135		460	500	-8.0	20.0
Methacrylonitrile	Ave	0.0753	0.0743		494	500	-1.3	20.0
Bromochloromethane	Lin2		0.1561		43.9	50.0	-12.3	20.0
Tetrahydrofuran	Lin2	0.0310	0.0298		90.9	100	-9.1	20.0
Chloroform	Ave	0.4840	0.4225		43.6	50.0	-12.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Lab Sample ID: CCVIS 490-247169/3 Calibration Date: 05/10/2015 16:17

Instrument ID: HP36 Calib Start Date: 05/07/2015 17:23

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/07/2015 21:15

Lab File ID: 051015-003.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Lin2		0.3862		43.4	50.0	-13.3	20.0
Cyclohexane	Lin2		0.4033		45.2	50.0	-9.6	20.0
1,1-Dichloropropene	Lin2		0.3399		44.0	50.0	-11.9	20.0
Carbon tetrachloride	Lin2		0.3533		43.4	50.0	-13.1	20.0
Isobutanol	Ave	0.0047	0.0048		1281	1250	2.5	20.0
t-Amyl alcohol	Ave	0.0063	0.0059		473	500	-5.5	40.0
Benzene	Lin2		0.9869		44.4	50.0	-11.1	20.0
Tert-amyl methyl ether	Lin2		0.5753		46.7	50.0	-6.6	20.0
1,2-Dichloroethane	Lin2		0.2806		45.8	50.0	-8.4	20.0
Heptane	Lin2		0.2421		62.3	50.0	24.5*	20.0
n-Butanol	Lin2		0.0018		1100	1250	-12.0	20.0
Trichloroethene	Lin2		0.2980		42.6	50.0	-14.7	20.0
Ethyl acrylate	Ave	0.1555	0.1561		50.2	50.0	0.4	20.0
Methylcyclohexane	Lin2		0.4044		46.1	50.0	-7.9	20.0
1,2-Dichloropropane	Lin2		0.2279		43.5	50.0	-12.9	20.0
Methyl methacrylate	Lin2		0.0964		97.7	100	-2.3	20.0
1,4-Dioxane	Lin1		0.0008		793	1000	-20.7*	20.0
Dibromomethane	Lin2		0.1149		45.5	50.0	-8.9	20.0
Bromodichloromethane	Lin2		0.3176		44.5	50.0	-11.0	20.0
2-Chloroethyl vinyl ether	Ave	0.0770	0.0976		63.4	50.0	26.8*	20.0
2-Nitropropane	Lin2		0.0643		104	100	3.6	20.0
cis-1,3-Dichloropropene	Lin2		0.4512		46.3	50.0	-7.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0481	0.0501		260	250	4.2	20.0
Toluene	Ave	1.444	1.352		46.8	50.0	-6.4	20.0
trans-1,3-Dichloropropene	Lin2		0.3716		47.9	50.0	-4.2	20.0
Ethyl methacrylate	Lin2		0.2335		50.5	50.0	1.1	20.0
1,1,2-Trichloroethane	Lin2		0.2078		46.5	50.0	-7.0	20.0
Tetrachloroethene	Lin2		0.4270		45.0	50.0	-10.1	20.0
1,3-Dichloropropane	Ave	0.3752	0.3596		47.9	50.0	-4.2	20.0
2-Hexanone	Lin2		0.0454		254	250	1.6	20.0
n-Butyl acetate	Ave	0.1669	0.1637		49.0	50.0	-2.0	20.0
Chlorodibromomethane	Lin2		0.2175		47.1	50.0	-5.8	20.0
1,2-Dibromoethane (EDB)	Lin2		0.1994		46.4	50.0	-7.2	20.0
Chlorobenzene	Ave	1.024	0.9251	0.3000	45.2	50.0	-9.7	20.0
Ethylbenzene	Ave	1.635	1.560		47.7	50.0	-4.6	20.0
1,1,1,2-Tetrachloroethane	Lin2		0.3453		44.9	50.0	-10.2	20.0
m,p-Xylene	Ave	1.273	1.201		47.2	50.0	-5.7	20.0
o-Xylene	Ave	1.323	1.250		47.2	50.0	-5.5	20.0
Styrene	Ave	1.092	1.048		48.0	50.0	-4.0	20.0
Bromoform	Lin2		0.1673	0.1000	48.1	50.0	-3.9	20.0
Isopropylbenzene	Ave	1.593	1.573		49.4	50.0	-1.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Lab Sample ID: CCVIS 490-247169/3 Calibration Date: 05/10/2015 16:17

Instrument ID: HP36 Calib Start Date: 05/07/2015 17:23

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/07/2015 21:15

Lab File ID: 051015-003.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Cyclohexanone	Ave	0.0057	0.0074		647	500	29.5*	20.0
Bromobenzene	Ave	0.9340	0.8954		47.9	50.0	-4.1	20.0
1,1,2,2-Tetrachloroethane	Lin2		0.3423	0.3000	47.9	50.0	-4.3	20.0
1,2,3-Trichloropropane	Lin2		0.3959		49.3	50.0	-1.4	20.0
N-Propylbenzene	Ave	2.927	2.949		50.4	50.0	0.8	20.0
trans-1,4-Dichloro-2-butene	Lin2		0.1044		51.8	50.0	3.7	20.0
2-Chlorotoluene	Ave	1.834	1.776		48.4	50.0	-3.2	20.0
1,3,5-Trimethylbenzene	Ave	2.141	2.140		50.0	50.0	-0.0	20.0
4-Chlorotoluene	Ave	1.910	1.880		49.2	50.0	-1.6	20.0
tert-Butylbenzene	Ave	1.868	1.811		48.5	50.0	-3.1	20.0
1,2,4-Trimethylbenzene	Ave	2.228	2.187		49.1	50.0	-1.8	20.0
sec-Butylbenzene	Lin2		2.497		48.9	50.0	-2.3	20.0
p-Isopropyltoluene	Ave	2.256	2.268		50.3	50.0	0.5	20.0
1,3-Dichlorobenzene	Ave	1.399	1.317		47.1	50.0	-5.9	20.0
1,2-Dichlorobenzene	Ave	1.413	1.327		47.0	50.0	-6.1	20.0
1,2,3-Trimethylbenzene	Ave	2.246	2.183		48.6	50.0	-2.8	20.0
Benzyl chloride	Lin2		0.4496		56.9	50.0	13.9	20.0
n-Butylbenzene	Lin2		1.765		49.3	50.0	-1.4	20.0
1,4-Dichlorobenzene	Ave	1.211	1.148		47.4	50.0	-5.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0684	0.0680		49.8	50.0	-0.5	20.0
1,3,5-Trichlorobenzene	Ave	0.7938	0.7597		47.9	50.0	-4.3	20.0
1,2,4-Trichlorobenzene	Lin2		0.5476		49.4	50.0	-1.2	20.0
Hexachlorobutadiene	Lin2		0.3054		46.4	50.0	-7.2	20.0
Naphthalene	Ave	0.9165	0.8963		48.9	50.0	-2.2	20.0
1,2,3-Trichlorobenzene	Lin2		0.3925		50.6	50.0	1.2	20.0
Dibromofluoromethane (Surr)	Ave	0.2411	0.2455		25.5	25.0	1.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2266	0.2312		25.5	25.0	2.0	30.0
Toluene-d8 (Surr)	Ave	1.168	1.206		25.8	25.0	3.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.6997	0.7608		27.2	25.0	8.7	30.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-78053-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-246854/7

Matrix: Water | Lab File ID: 050815-007.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 05/08/2015 13:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 246854 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
460-00-4	4-Bromofluorobenzene (Surr)	105		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-78053-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-247169/7

Matrix: Water | Lab File ID: 051015-007.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 05/10/2015 18:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 247169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	1.00	U	1.00	0.250
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	0.210
127-18-4	Tetrachloroethene	1.00	U	1.00	0.140
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	0.230
79-01-6	Trichloroethene	1.00	U	1.00	0.200
75-01-4	Vinyl chloride	1.00	U	1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
460-00-4	4-Bromofluorobenzene (Surr)	108		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-78053-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-246854/3

Matrix: Water | Lab File ID: 050815-003.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 05/08/2015 12:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 246854 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	43.15		1.00	0.250
156-59-2	cis-1,2-Dichloroethene	47.03		1.00	0.210
127-18-4	Tetrachloroethene	49.37		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	44.38		1.00	0.230
79-01-6	Trichloroethene	46.29		1.00	0.200
75-01-4	Vinyl chloride	45.58		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
460-00-4	4-Bromofluorobenzene (Surr)	105		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-78053-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-247169/4

Matrix: Water | Lab File ID: 051015-004.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 05/10/2015 16:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 247169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	46.27		1.00	0.250
156-59-2	cis-1,2-Dichloroethene	50.73		1.00	0.210
127-18-4	Tetrachloroethene	51.17		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	47.23		1.00	0.230
79-01-6	Trichloroethene	48.80		1.00	0.200
75-01-4	Vinyl chloride	51.52		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
460-00-4	4-Bromofluorobenzene (Surr)	108		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-78053-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 490-246854/4

Matrix: Water | Lab File ID: 050815-004.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 05/08/2015 12:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 246854 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	47.57		1.00	0.250
156-59-2	cis-1,2-Dichloroethene	51.62		1.00	0.210
127-18-4	Tetrachloroethene	53.43		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	49.68		1.00	0.230
79-01-6	Trichloroethene	51.13		1.00	0.200
75-01-4	Vinyl chloride	50.24		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
1868-53-7	Dibromofluoromethane (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-78053-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 490-247169/8

Matrix: Water | Lab File ID: 051015-008.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 05/10/2015 17:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 247169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	46.37		1.00	0.250
156-59-2	cis-1,2-Dichloroethene	51.97		1.00	0.210
127-18-4	Tetrachloroethene	51.48		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	47.34		1.00	0.230
79-01-6	Trichloroethene	49.26		1.00	0.200
75-01-4	Vinyl chloride	51.14		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
460-00-4	4-Bromofluorobenzene (Surr)	108		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Client Sample ID: BRMW-04-GW-HS-050715 MS Lab Sample ID: 490-78053-8 MS

Matrix: Water Lab File ID: 050815-024.D

Analysis Method: 8260B Date Collected: 05/07/2015 15:15

Sample wt/vol: 10(mL) Date Analyzed: 05/08/2015 21:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 246854 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	45.62		1.00	0.250
156-59-2	cis-1,2-Dichloroethene	49.98		1.00	0.210
127-18-4	Tetrachloroethene	57.81		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	47.02		1.00	0.230
79-01-6	Trichloroethene	48.31		1.00	0.200
75-01-4	Vinyl chloride	50.32		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
460-00-4	4-Bromofluorobenzene (Surr)	111		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-78053-1

SDG No.:

Client Sample ID: BRMW-04-GW-HS-050715 MSD | Lab Sample ID: 490-78053-8 MSD

Matrix: Water | Lab File ID: 050815-025.D

Analysis Method: 8260B | Date Collected: 05/07/2015 15:15

Sample wt/vol: 10(mL) | Date Analyzed: 05/08/2015 21:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 246854 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	46.15		1.00	0.250
156-59-2	cis-1,2-Dichloroethene	49.70		1.00	0.210
127-18-4	Tetrachloroethene	57.49		1.00	0.140
156-60-5	trans-1,2-Dichloroethene	46.62		1.00	0.230
79-01-6	Trichloroethene	47.52		1.00	0.200
75-01-4	Vinyl chloride	48.05		1.00	0.180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
460-00-4	4-Bromofluorobenzene (Surr)	110		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	106		70-130

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Instrument ID: HP36 Start Date: 05/07/2015 11:57

Analysis Batch Number: 246484 End Date: 05/07/2015 22:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-246484/2		05/07/2015 11:57	1	050715-002.D	DB-624 0.18(mm)
STD 490-246484/11 IC		05/07/2015 17:23	1	050715-011.D	DB-624 0.18(mm)
STD 490-246484/12 IC		05/07/2015 17:49	1	050715-012.D	DB-624 0.18(mm)
STD 490-246484/13 IC		05/07/2015 18:14	1	050715-013.D	DB-624 0.18(mm)
STD 490-246484/14 IC		05/07/2015 18:41	1	050715-014.D	DB-624 0.18(mm)
STD 490-246484/15 IC		05/07/2015 19:07	1	050715-015.D	DB-624 0.18(mm)
STD 490-246484/16 IC		05/07/2015 19:32	1	050715-016.D	DB-624 0.18(mm)
ICIS 490-246484/17		05/07/2015 19:58	1	050715-017.D	DB-624 0.18(mm)
STD 490-246484/18 IC		05/07/2015 20:24	1	050715-018.D	DB-624 0.18(mm)
STD 490-246484/19 IC		05/07/2015 20:50	1	050715-019.D	DB-624 0.18(mm)
STD 490-246484/20 IC		05/07/2015 21:15	1	050715-020.D	DB-624 0.18(mm)
ICV 490-246484/24		05/07/2015 22:58	1	050715-024.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Instrument ID: HP36 Start Date: 05/08/2015 11:08

Analysis Batch Number: 246854 End Date: 05/08/2015 21:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-246854/1		05/08/2015 11:08	1	050815-001.D	DB-624 0.18(mm)
CCVIS 490-246854/2		05/08/2015 11:34	1	050815-002.D	DB-624 0.18(mm)
LCS 490-246854/3		05/08/2015 12:00	1	050815-003.D	DB-624 0.18(mm)
LCSD 490-246854/4		05/08/2015 12:26	1	050815-004.D	DB-624 0.18(mm)
MB 490-246854/7		05/08/2015 13:42	1	050815-007.D	DB-624 0.18(mm)
ZZZZZ		05/08/2015 14:11	1		DB-624 0.18(mm)
490-78053-12	TB050715	05/08/2015 14:36	1	050815-009.D	DB-624 0.18(mm)
490-78053-4	SPMW-7-GW-HS-050715	05/08/2015 15:02	1	050815-010.D	DB-624 0.18(mm)
490-78053-8	BRMW-04-GW-HS-050715	05/08/2015 15:28	1	050815-011.D	DB-624 0.18(mm)
490-78053-9	BRMW-02-GW-HS-050715	05/08/2015 15:54	1	050815-012.D	DB-624 0.18(mm)
490-78053-10	BRMW-02-GW-HS-050715-FD	05/08/2015 16:20	1	050815-013.D	DB-624 0.18(mm)
490-78053-11	BRMW-11-GW-HS-050715	05/08/2015 16:45	1	050815-014.D	DB-624 0.18(mm)
ZZZZZ		05/08/2015 17:11	1		DB-624 0.18(mm)
ZZZZZ		05/08/2015 17:37	1		DB-624 0.18(mm)
ZZZZZ		05/08/2015 18:03	1		DB-624 0.18(mm)
ZZZZZ		05/08/2015 18:29	1		DB-624 0.18(mm)
ZZZZZ		05/08/2015 18:55	1		DB-624 0.18(mm)
ZZZZZ		05/08/2015 19:20	1		DB-624 0.18(mm)
ZZZZZ		05/08/2015 19:46	1		DB-624 0.18(mm)
ZZZZZ		05/08/2015 20:12	1		DB-624 0.18(mm)
490-78053-8 MS	BRMW-04-GW-HS-050715 MS	05/08/2015 21:03	1	050815-024.D	DB-624 0.18(mm)
490-78053-8 MSD	BRMW-04-GW-HS-050715 MSD	05/08/2015 21:29	1	050815-025.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Instrument ID: HP36 Start Date: 05/10/2015 15:51

Analysis Batch Number: 247169 End Date: 05/11/2015 01:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-247169/2		05/10/2015 15:51	1	051015-002.D	DB-624 0.18(mm)
CCVIS 490-247169/3		05/10/2015 16:17	1	051015-003.D	DB-624 0.18(mm)
LCS 490-247169/4		05/10/2015 16:43	1	051015-004.D	DB-624 0.18(mm)
LCSD 490-247169/8		05/10/2015 17:08	1	051015-008.D	DB-624 0.18(mm)
MB 490-247169/7		05/10/2015 18:25	1	051015-007.D	DB-624 0.18(mm)
ZZZZZ		05/10/2015 18:51	1		DB-624 0.18(mm)
ZZZZZ		05/10/2015 19:17	1		DB-624 0.18(mm)
ZZZZZ		05/10/2015 19:42	1		DB-624 0.18(mm)
490-78053-11 DL	BRMW-11-GW-HS-050715 DL	05/10/2015 20:08	20	051015-012.D	DB-624 0.18(mm)
ZZZZZ		05/10/2015 20:34	50		DB-624 0.18(mm)
ZZZZZ		05/10/2015 21:00	50		DB-624 0.18(mm)
ZZZZZ		05/10/2015 21:25	1000		DB-624 0.18(mm)
ZZZZZ		05/10/2015 21:51	50		DB-624 0.18(mm)
ZZZZZ		05/10/2015 22:17	1000		DB-624 0.18(mm)
ZZZZZ		05/10/2015 22:42	100		DB-624 0.18(mm)
ZZZZZ		05/10/2015 23:08	5000		DB-624 0.18(mm)
ZZZZZ		05/10/2015 23:34	100		DB-624 0.18(mm)
ZZZZZ		05/10/2015 23:59	5000		DB-624 0.18(mm)
ZZZZZ		05/11/2015 00:25	100		DB-624 0.18(mm)
ZZZZZ		05/11/2015 00:51	5000		DB-624 0.18(mm)
ZZZZZ		05/11/2015 01:17	100		DB-624 0.18(mm)
ZZZZZ		05/11/2015 01:42	5000		DB-624 0.18(mm)

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Nashville Job Number: 490-78053-1

SDG No.:

Project: Schlumberger Sangamo OU-1

Client Sample ID	Lab Sample ID
SHMW-2-GW-HS-050615	490-78053-1
SPMW-11-GW-HS-050715	490-78053-2
SHMW-3-GW-HS-050715	490-78053-5
SPMW-12-GW-HS-050715	490-78053-6
SPMW-12-GW-HS-050715-FD	490-78053-7

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SHMW-2-GW-HS-050615 Lab Sample ID: 490-78053-1

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG ID.:

Matrix: Water Date Sampled: 05/06/2015 16:05

Reporting Basis: WET Date Received: 05/08/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-23-5	Sodium	8.21	1.00	0.500	mg/L		B	1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SPMW-11-GW-HS-050715 Lab Sample ID: 490-78053-2

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG ID.:

Matrix: Water Date Sampled: 05/07/2015 08:10

Reporting Basis: WET Date Received: 05/08/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-23-5	Sodium	3.08	1.00	0.500	mg/L		B	1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SHMW-3-GW-HS-050715 Lab Sample ID: 490-78053-5

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG ID.:

Matrix: Water Date Sampled: 05/07/2015 11:35

Reporting Basis: WET Date Received: 05/08/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-23-5	Sodium	7.52	1.00	0.500	mg/L		B	1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SPMW-12-GW-HS-050715 Lab Sample ID: 490-78053-6

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG ID.:

Matrix: Water Date Sampled: 05/07/2015 12:50

Reporting Basis: WET Date Received: 05/08/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-23-5	Sodium	4.90	1.00	0.500	mg/L		B	1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SPMW-12-GW-HS-050715-FD
Lab Sample ID: 490-78053-7
Lab Name: TestAmerica Nashville
Job No.: 490-78053-1
SDG ID.:
Matrix: Water
Date Sampled: 05/07/2015 12:50
Reporting Basis: WET
Date Received: 05/08/2015 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-23-5	Sodium	4.74	1.00	0.500	mg/L		B	1	6010C

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

ICV Source: MET_ICV_00050 Concentration Units: mg/L

CCV Source: MET_CCV_00031

Analyte	ICV 490-247204/9 05/10/2015 10:54				CCV 490-247204/15 05/10/2015 11:24				CCV 490-247204/75 05/10/2015 16:02			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Sodium	10.02		10.0	100	10.36		10.0	104	10.92		10.0	109

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

ICV Source: MET_ICV_00050 Concentration Units: mg/L

CCV Source: MET_CCV_00031

Analyte	CCV 490-247204/87 05/10/2015 16:54				CCV 490-247204/96 05/10/2015 17:34							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Sodium	10.66		10.0	107	10.66		10.0	107				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Method: 6010C Instrument ID: ICP5

Lab Sample ID: CRI 490-247204/11 Concentration Units: mg/L

CRQL Check Standard Source: MET_CALSTD1__00003

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Sodium	1.00	1.055		106	70-130

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICBIS 490-247204/10 05/10/2015 10:59		CCB 490-247204/16 05/10/2015 11:29		CCB 490-247204/76 05/10/2015 16:06		CCB 490-247204/88 05/10/2015 16:59	
		Found	C	Found	C	Found	C	Found	C
Sodium	1.00	1.00	U	1.00	U	0.6788	J	1.00	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 490-247204/97 05/10/2015 17:39							
		Found	C	Found	C	Found	C	Found	C
Sodium	1.00	1.00	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 490-246913/1-A

Instrument Code: ICP5 Batch No.: 247204

CAS No.	Analyte	Concentration	C	Q	Method
7440-23-5	Sodium	0.6479	J		6010C

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Lab Sample ID: ICSA 490-247204/12 Instrument ID: ICP5

Lab File ID: TALS_051015-5.asc ICS Source: MET_ICSA_00015

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Sodium		**0.0762**	
Aluminum	*500*	*515*	*103*
Antimony		*0.0063*	
Arsenic		*0.0126*	
Barium		*-0.0114*	
Beryllium		*0.0000*	
Boron		*0.0945*	
Cadmium		*0.0000*	
Calcium	*500*	*504*	*101*
Chromium		*-0.0022*	
Cobalt		*-0.0030*	
Copper		*0.0037*	
Iron	*200*	*191*	*96*
Lead		*0.0003*	
Lithium		*-0.0093*	
Magnesium	*500*	*516*	*103*
Manganese		*0.0104*	
Molybdenum		*-0.0013*	
Nickel		*-0.0011*	
Potassium		*-0.0834*	
Selenium		*0.0146*	
Silver		*0.0088*	
Strontium		*-0.0190*	
Sulfur		*-0.0441*	
Thallium		*-0.0080*	
Tin		*-0.0008*	
Titanium		*0.0022*	
Vanadium		*-0.0015*	
Zinc		*0.0140*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Lab Sample ID: ICSAB 490-247204/13 Instrument ID: ICP5

Lab File ID: TALS_051015-5.asc ICS Source: MET_ICSAB_00024

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Sodium	**10.0**	**10.6**	**106**
Aluminum	*501*	*516*	*103*
Antimony	*1.00*	*1.01*	*101*
Arsenic	*1.00*	*1.06*	*106*
Barium	*0.500*	*0.516*	*103*
Beryllium	*0.500*	*0.506*	*101*
Boron	*1.00*	*1.12*	*112*
Cadmium	*1.00*	*0.971*	*97*
Calcium	*500*	*499*	*100*
Chromium	*0.500*	*0.497*	*99*
Cobalt	*0.500*	*0.485*	*97*
Copper	*0.500*	*0.529*	*106*
Iron	*200*	*191*	*96*
Lead	*1.00*	*0.950*	*95*
Lithium		*-0.0085*	
Magnesium	*500*	*514*	*103*
Manganese	*0.500*	*0.516*	*103*
Molybdenum	*1.00*	*0.987*	*99*
Nickel	*1.00*	*0.970*	*97*
P		*-0.437*	
Potassium		*-0.0914*	
Selenium	*1.00*	*1.02*	*102*
Silver	*1.00*	*1.14*	*114*
Strontium		*-0.0194*	
Sulfur		*-0.0501*	
Thallium	*1.00*	*0.923*	*92*
Tin		*-0.0012*	
Titanium		*0.0051*	
Vanadium	*0.500*	*0.497*	*99*
Zinc	*1.00*	*1.10*	*110*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: SHMW-3-GW-HS-050715 MS
Lab ID: 490-78053-5 MS
Lab Name: TestAmerica Nashville
Job No.: 490-78053-1
SDG No.:
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	SSR C		Sample Result (SR) C		Spike Added (SA)	%R	Control Limit %R	Q	Method
Sodium	12.49		7.52		5.00	99	75-125		6010C

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: SHMW-3-GW-HS-050715 MSD Lab ID: 490-78053-5 MSD

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Matrix: Water Concentration Units: mg/L

% Solids:

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Sodium	12.58		5.00	101	75-125	1	20		6010C

SDR = Sample Duplicate Result

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

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: SHMW-3-GW-HS-050715 PDS Lab ID: 490-78053-5 PDS

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Matrix: Water Concentration Units: mg/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Sodium	12.36		7.52		5.00	97	80-120		6010C

SSR = Spiked Sample Result

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

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 490-246913/2-A

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

Sample Matrix: Water LCS Source: MET_Spike_A_00026

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Sodium	5.00	5.523		110	80	120		6010C

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

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 490-246913/3-A

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

Sample Matrix: Water LCS Source: MET_Spike_A_00026

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Sodium	5.434		5.00	109	80-120	2	20		6010C

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 490-78053-5

SDG No:

Lab Name: TestAmerica Nashville Job No: 490-78053-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Sodium	7.52		8.695		NC		6010C

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Nashville Job Number: 490-78053-1

SDG Number:

Matrix: Water Instrument ID: ICP5

Method: 6010C MDL Date: 05/07/2014 13:32

Prep Method: 3010A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sodium		1	0.5

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Nashville Job Number: 490-78053-1

SDG Number:

Matrix: Water Instrument ID: ICP5

Method: 6010C XMDL Date: 05/07/2014 13:32

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sodium		1	0.5

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Nashville Job No: 490-78053-1

SDG No.:

Instrument ID: ICP5 Date: 03/16/2015 11:01

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Sodium		500	6010C

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 490-246913/1-A	05/08/2015 14:47	246913		50	50
LCS 490-246913/2-A	05/08/2015 14:47	246913		50	50
LCSD 490-246913/3-A	05/08/2015 14:47	246913		50	50
490-78053-5	05/08/2015 14:47	246913		50	50
490-78053-5 MS	05/08/2015 14:47	246913		50	50
490-78053-5 MSD	05/08/2015 14:47	246913		50	50
490-78053-1	05/08/2015 14:47	246913		50	50
490-78053-2	05/08/2015 14:47	246913		50	50
490-78053-6	05/08/2015 14:47	246913		50	50
490-78053-7	05/08/2015 14:47	246913		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Instrument ID: ICP5 Method: 6010C

Start Date: 05/10/2015 10:17 End Date: 05/10/2015 17:43

Lab Sample ID	D/F	Type	Time	Analytes																			
				Na																			
ZZZZZZ			10:17																				
ZZZZZZ			10:22																				
CALSTD0 490-247204/3 IC			10:27	X																			
CALSTD1 490-247204/4 IC			10:32	X																			
CALSTD2 490-247204/5 IC			10:36	X																			
CALSTD3 490-247204/6 IC			10:40	X																			
CALSTD4 490-247204/7 IC			10:45	X																			
CALSTD5 490-247204/8 IC			10:49	X																			
ICV 490-247204/9	1		10:54	X																			
ICBIS 490-247204/10	1		10:59	X																			
CRI 490-247204/11	1		11:03	X																			
ICSA 490-247204/12	1		11:09	X																			
ICSAB 490-247204/13	1		11:14	X																			
ZZZZZZ			11:20																				
CCV 490-247204/15	1		11:24	X																			
CCB 490-247204/16	1		11:29	X																			
ZZZZZZ			11:41																				
ZZZZZZ			11:46																				
ZZZZZZ			11:50																				
ZZZZZZ			11:54																				
ZZZZZZ			11:59																				
ZZZZZZ			12:03																				
ZZZZZZ			12:07																				
ZZZZZZ			12:12																				
ZZZZZZ			12:16																				
ZZZZZZ			12:21																				
CCV 490-247204/27			12:26																				
CCB 490-247204/28			12:31																				
ZZZZZZ			12:35																				
ZZZZZZ			12:40																				
ZZZZZZ			12:45																				
ZZZZZZ			12:50																				
ZZZZZZ			12:54																				
ZZZZZZ			12:58																				
ZZZZZZ			13:03																				
ZZZZZZ			13:07																				
ZZZZZZ			13:12																				
ZZZZZZ			13:16																				
CCV 490-247204/39			13:21																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Instrument ID: ICP5 Method: 6010C

Start Date: 05/10/2015 10:17 End Date: 05/10/2015 17:43

Lab Sample ID	D / F	Type	Time	Analytes																			
				Na																			
CCB 490-247204/40			13:26																				
ZZZZZZ			13:31																				
ZZZZZZ			13:36																				
ZZZZZZ			13:40																				
ZZZZZZ			13:44																				
ZZZZZZ			13:49																				
ZZZZZZ			13:53																				
ZZZZZZ			13:58																				
ZZZZZZ			14:02																				
ZZZZZZ			14:06																				
ZZZZZZ			14:11																				
CCV 490-247204/51			14:15																				
CCB 490-247204/52			14:20																				
ZZZZZZ			14:24																				
ZZZZZZ			14:29																				
ZZZZZZ			14:33																				
ZZZZZZ			14:37																				
ZZZZZZ			14:42																				
ZZZZZZ			14:46																				
ZZZZZZ			14:50																				
ZZZZZZ			14:54																				
ZZZZZZ			14:59																				
ZZZZZZ			15:03																				
CCV 490-247204/63			15:07																				
CCB 490-247204/64			15:12																				
ZZZZZZ			15:17																				
ZZZZZZ			15:21																				
ZZZZZZ			15:25																				
ZZZZZZ			15:30																				
ZZZZZZ			15:34																				
ZZZZZZ			15:39																				
ZZZZZZ			15:44																				
ZZZZZZ			15:48																				
ZZZZZZ			15:53																				
ZZZZZZ			15:57																				
CCV 490-247204/75	1		16:02	X																			
CCB 490-247204/76	1		16:06	X																			
ZZZZZZ			16:11																				
ZZZZZZ			16:15																				
ZZZZZZ			16:20																				
ZZZZZZ			16:24																				
ZZZZZZ			16:28																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Instrument ID: ICP5 Method: 6010C

Start Date: 05/10/2015 10:17 End Date: 05/10/2015 17:43

Lab Sample ID	D / F	Type	Time	Analytes																			
				Na																			
MB 490-246913/1-A	1	T	16:33	X																			
LCS 490-246913/2-A	1	T	16:37	X																			
LCSD 490-246913/3-A	1	T	16:41	X																			
490-78053-5	1	T	16:45	X																			
490-78053-5 SD	5	T	16:50	X																			
CCV 490-247204/87	1		16:54	X																			
CCB 490-247204/88	1		16:59	X																			
490-78053-5 PDS	1	T	17:04	X																			
490-78053-5 MS	1	T	17:08	X																			
490-78053-5 MSD	1	T	17:12	X																			
490-78053-1	1	T	17:16	X																			
490-78053-2	1	T	17:21	X																			
490-78053-6	1	T	17:25	X																			
490-78053-7	1	T	17:30	X																			
CCV 490-247204/96	1		17:34	X																			
CCB 490-247204/97	1		17:39	X																			
CCVL 490-247204/98			17:43																				

Prep Types
T = Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Batch Number: 246913 Batch Start Date: 05/08/15 14:47 Batch Analyst: Cockrill, Tiffany S

Batch Method: 3010A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	MET_1:1HCL 00031	MET_HNO3 00085	MET_Spike_A 00026
MB 490-246913/1		3010A, 6010C			50 mL	50 mL	5 mL	3 mL	
LCS 490-246913/2		3010A, 6010C			50 mL	50 mL	5 mL	3 mL	0.5 mL
LCSD 490-246913/3		3010A, 6010C			50 mL	50 mL	5 mL	3 mL	0.5 mL
490-78053-A-5	SHMW-3-GW-HS-050715	3010A, 6010C	T	<2	50 mL	50 mL	5 mL	3 mL	
490-78053-A-5 MS	SHMW-3-GW-HS-050715	3010A, 6010C	T	<2	50 mL	50 mL	5 mL	3 mL	0.5 mL
490-78053-A-5 MSD	SHMW-3-GW-HS-050715	3010A, 6010C	T	<2	50 mL	50 mL	5 mL	3 mL	0.5 mL
490-78053-A-1	SHMW-2-GW-HS-050615	3010A, 6010C	T	<2	50 mL	50 mL	5 mL	3 mL	
490-78053-A-2	SPMW-11-GW-HS-050715	3010A, 6010C	T	<2	50 mL	50 mL	5 mL	3 mL	
490-78053-A-6	SPMW-12-GW-HS-050715	3010A, 6010C	T	<2	50 mL	50 mL	5 mL	3 mL	
490-78053-A-7	SPMW-12-GW-HS-050715-FD	3010A, 6010C	T	<2	50 mL	50 mL	5 mL	3 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MET_Spike_B 00027					
MB 490-246913/1		3010A, 6010C							
LCS 490-246913/2		3010A, 6010C		0.5 mL					
LCSD 490-246913/3		3010A, 6010C		0.5 mL					
490-78053-A-5	SHMW-3-GW-HS-050715	3010A, 6010C	T						
490-78053-A-5 MS	SHMW-3-GW-HS-050715	3010A, 6010C	T	0.5 mL					
490-78053-A-5 MSD	SHMW-3-GW-HS-050715	3010A, 6010C	T	0.5 mL					
490-78053-A-1	SHMW-2-GW-HS-050615	3010A, 6010C	T						
490-78053-A-2	SPMW-11-GW-HS-050715	3010A, 6010C	T						
490-78053-A-6	SPMW-12-GW-HS-050715	3010A, 6010C	T						
490-78053-A-7	SPMW-12-GW-HS-050715-FD	3010A, 6010C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Nashville Job No.: 490-78053-1

SDG No.:

Batch Number: 246913 Batch Start Date: 05/08/15 14:47 Batch Analyst: Cockrill, Tiffany S

Batch Method: 3010A Batch End Date:

Batch Notes	
First End time	2030
Lot # of hydrochloric acid	1750127
Lot # of Nitric Acid	2211863
Hot Block ID number	HB4
Oven, Bath or Block Temperature 1	95.8 Degrees C
Oven, Bath or Block Temperature 2	95.9 Degrees C
pH Paper Lot Number	HC432654
First Start time	05/08/15 1618
ID number of the thermometer	HB4
Digestion Tube/Cup Lot #	1408268

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

Atlanta

COOLER RECEIPT FC

490-78053 Chain of Custody

Cooler Received/Opened On: 5/8/2015 @0900

1. Tracking # 5655 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 14740456

2. Temperature of rep. sample or temp blank when opened: 5.0 *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: 2 Front / Back

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) _____

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 # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

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) _____

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) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12
05/12/2015

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

05/12/2015

Client Information	Sampler: M. Davenport	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 490-38480-13032.1
Client Contact: Ms. Shannon Olson	Phone: 404-432-3138	E-Mail: shali.brown@testamericainc.com		Page: Page 1 of 2
Company: CH2M Hill, Inc.				Job #:
Address: 2020 SW 4th Ave Suite 300	Due Date Requested:			
City: Portland	TAT Requested (days): 24 hr. TAT			
State, Zip: OR, 97201				
Phone: 503-736-4111	PO #:			
Email: shannon.olson@ch2m.com	WO #:			
Project Name: Schlumberger Sangamo	Project #: 49005908			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

	Sample Identification	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)	VOC	Sodium	Total Number of containers	Special Instructions/Note:
				Preservation Code:							
1	SHMW-2-GW-HS-050615	5/6/15	1605	G	W				X		
2	SPMW-11-GW-HS-050715	5/7/15	0810	G	W				X		
3	SPRW-602-GW-HS-050715	5/7/15	0950	G	W						donot run! for disposal
4	SPMW-7-GW-HS-050715	5/7/15	1055	G	W			X			
5	SHMW-3-GW-HS-050715	5/7/15	1135	G	W	X			X		MS and MSD
6	SPMW-12-GW-HS-050715	5/7/15	1250	G	W				X		
7	SPMW-12-GW-HS-050715-FD	5/7/15	1250	G	W				X		
8	BRMW-04-GW-HS-050715	5/7/15	1515	G	W			X			Loc: 490 78053
9	BRMW-02-GW-HS-050715	5/7/15	1700	G	W			X			
10	BRMW-02-GW-HS-050715-FD	5/7/15	1700	G	W			X			
11	BRMW-11-GW-HS-050715-FD	5/7/15	1735	G	W			X			

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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	M. Davenport	5/7/15 1900		5.0	5-8-15 09:00	TAN
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: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

05/12/2015

Client Information	Sampler: M Davenport	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 490-38480-13032.1
Client Contact: Ms. Shannon Olson	Phone: 404 432 3138	E-Mail: shali.brown@testamericainc.com		Page: Page 2 of 2
Company: CH2M Hill, Inc.				Job #:
Address: 2020 SW 4th Ave Suite 300	Due Date Requested:			
City: Portland	TAT Requested (days): 24 hr TAT			
State, Zip: OR, 97201	PO #:			
Phone: 503-736-4111	WO #:			
Email: shannon.olson@ch2m.com	Project #: 49005908			
Project Name: Schlumberger Sangamo	SSOW#:			
Site:				

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 - Na2S2SO3
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)	VOC	Sodium	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
12 TB050715	—	—	—	W			X			Trip blank.

Loc: 490
78053
#3
B

Page 136 of 137

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ 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		5/7/15/1900		5.0	5-8-15 09:00	TAN
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:

Login Sample Receipt Checklist

Client: CH2M Hill, Inc.

Job Number: 490-78053-1

Login Number: 78053
List Number: 1
Creator: Ford, Easton

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix B
Technical Memorandum: Data Quality Evaluation for Sangamo Weston Plant Site – Annual Groundwater Monitoring Event

Data Quality Evaluation for Sangamo Weston Plant Site—Annual Groundwater Monitoring Event

Introduction

The objective of this data quality evaluation (DQE) memorandum is to assess the quality of analytical results for groundwater samples collected at Sangamo Weston Plant Site, Pickens, South Carolina. Samples were collected by CH2M Hill between April 1 and May 7, 2015. Guidance for the DQE memorandum came from the U.S. Environmental Protection Agency (USEPA) *Contract Laboratory Program National Functional Guidelines (NFG) for Organic Data Review, June 2008* and individual method requirements. The analytical results were evaluated using the criteria of precision, accuracy, representativeness, comparability, and completeness (PARCC) as described in the quality assurance project plan.

This DQE memorandum is intended as a general data quality assessment designed to summarize data issues.

Analytical Data

This DQE memorandum covers 77 groundwater samples, nine groundwater field duplicates (FDs), one equipment blank (EB), and five trip blanks (TBs). The samples were reported in five sample delivery groups (SDGs) listed as 490-75765-1, 490-75790-1, 490-75933-1, 490-77157-1 and 490-78053-1. Samples were collected and delivered to TestAmerica, Inc., in Nashville, Tennessee. The samples were analyzed by one or more of the methods listed in Table 1.

TABLE 1
Analytical Parameters
Data Quality Evaluation for Sangamo Weston Plant Site-Annual Groundwater Monitoring Event

Parameter	Method	Laboratory
Volatile organic compounds (VOCs)	SW-846 5030B/8260B	TestAmerica-Nashville
Polychlorinated Biphenyls (PCBs)	SW-846 3510C/8082A	TestAmerica-Nashville
Sodium	SW-846 3010A/6010C	TestAmerica-Nashville

The SDGs were assessed by reviewing the following: (1) the chain-of- custody documentation, (2) holding-time compliance, (3) initial and continuing calibration criteria, (4) method blanks and field blanks, (5) laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries, (6) matrix spike (MS)/matrix spike duplicate (MSD) recoveries, (7) surrogate spike recoveries, (8) internal standard recoveries, (9) FD precision, and (10) the required quality control samples at the specified frequencies.

Data flags were assigned according to the NFGs. Multiple flags are routinely applied to specific sample method/matrix/analyte combinations, but there will only be one final flag. A final flag is applied to the data and is the most conservative of the applied validation flags. The final flag also includes matrix and blank sample impacts.

The data flags are listed and defined as follows:

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- U = The analyte was analyzed for but was not detected above the reported sample quantitation limit.

Findings

The overall summaries of the data validation are contained in the following sections. Qualified data are presented in Table 2.

Holding Time and Preservation

All acceptance criteria were met.

Calibration

Initial and continuing calibration analyses were performed as required by the methods. All acceptance criteria were met. The following samples required dilutions for VOCs in order to bring the target concentrations within the range of the calibration curve: SDMW-4-GW-HS-040115, SDMW-4-GW-HS-040115-FD, SDMW-8-GW-HS-040115, SHMW-3-GW-HS-040115, SPMW-20-GW-HS-040115, BRMW-11-GW-HS-040215, BRMW-11-GW-HS-040215-FD, SBMW-5-GW-HS-040215, SBMW-5-GW-HS-040215-FD, SBMW-6-GW-HS-040215, SPRW-201-GW-HS-040215, SPRW-205-GW-HS-040215, SPRW-206-GW-HS-040215, SWMW-6-GW-HS-040215, SPRW-701-GW-040315, SPRW-702-GW-040315, SPRW-702-GW-040315-FD, SPRW-302-GW-HS-040315, SPRW-303A-GW-HS-040315, SPRW-303A-GW-HS-040315-FD, SPMW-12-GW-HS-042215, SWMW-7A-GW-042315, SDMW-3-GW-042315, and BRMW-11-GW-HS-050715. The following samples required dilutions for PCBs in order to bring the target concentrations within the range of the calibration curve: SBMW-5-GW-HS-040215, SBMW-5-GW-HS-040215-FD, SBMW-6-GW-HS-040215, SPRW-702-GW-040315, SPRW-702-GW-040315-FD, SWMW-7A-GW-042315, and SPRW-401-GW-042315.

Method Blanks

Method blanks were analyzed at the required frequency and were free of contamination with the following exception:

- Sodium was detected at a concentration less than the reporting limit (RL) in one method blank associated with SDG 490-78053-1. The data were qualified as not detected at the concentration measured and flagged "U" when the associated sample concentrations were less than five times the concentration detected in the blank. Results detected greater than five times the concentration found in the blank were not qualified.

Calibration Blanks

Calibration blanks were analyzed at the required frequency and were free of contamination with the following exception:

- Sodium was detected at a concentration less than the RL in in one continuing calibration blank associated with SDG 490-78053-1. The associated result was detected greater than five times the concentration found in the blank and was therefore not qualified.

Field Blanks

One EB and five TBs were collected, analyzed, and were free of contamination.

Laboratory Control Samples

LCS/LCSDs were analyzed as required and met all accuracy criteria.

Matrix Spike

MS/MSDs were analyzed as required, and all accuracy and precision criteria were met with the following exception:

- Tetrachloroethene was recovered greater than the upper control limit in the MS of sample SDMW-2-GW-HS-040115, indicating a possible high bias. The MS of sample SWMW-5-GW-HS-040215 recovered vinyl chloride greater than the upper control limit. The detected results were qualified as estimated and flagged "J" in the parent samples.

Surrogates

Surrogates were added as required and all acceptance criteria were met.

Internal Standards

Internal standards were added as required and all acceptance criteria were met.

Serial Dilutions

Serial dilutions were analyzed according to methods requiring their use and all acceptance criteria were met.

Interference Check Standards

Interference check standards were analyzed as required and all accuracy criteria were met.

Laboratory Duplicates

Laboratory duplicates were performed as required and all precision criteria were met.

Field Duplicates

FDs were collected and analyzed as required and all precision criteria were met with the following exceptions:

- The relative percent difference (RPD) for tetrachloroethene, trichloroethene and cis-1,2-dichloroethene was greater than the method criteria in the FD pairs SPMW-17-GW-HS-040115/ SPMW-17-GW-HS-040115-FD. The data were qualified as estimated detects and flagged "J" in the FD pair.

Column Differential

The RPD between the primary and confirmation columns were calculated to determine the precision of the results.

- The RPD for arocolor-1248 exceeded the established QC limits of less than 40 percent in sample SDMW-8-GW-HS-040115. The associated result was qualified as estimated detected and flagged "J".

Chain of Custody

Required procedures were followed and the documents were free of errors.

Overall Assessment

The goal of the assessment is to demonstrate that a sufficient number of representative samples were collected and the resulting analytical data can be used to support the decision making process. The following summary highlights the PARCC findings for the above-defined event:

- Precision of the data was verified through the review of the laboratory data quality indicators that include FD, LCS/LCSD, MS/MSD, serial dilution, laboratory duplicate, and column differential RPDs. Precision was generally acceptable with tetrachloroethene and vinyl chloride being qualified as estimated detects in two samples due to MS issues, with tetrachloroethene, trichloroethene and cis-1,2-dichloroethene being qualified as estimated detects in two few samples due to FD issues, and with aroclor-1248 being qualified as an estimated detect in one sample due to column differential issues. Data users should consider the impact to any result that is qualified as estimated as it may contain a bias, which could affect the decision making process.
- Accuracy of the data was verified through the review of the calibration data, LCS/LCSD, MS/MSD, interference check standard, and surrogate recoveries, as well as the evaluation of method/field/calibration blank data. Accuracy was generally acceptable with a few analytes being qualified as estimated detected due to MS issues. The method/field/calibration blank samples were generally free of contamination with sodium being qualified as a non-detected result in one sample due to a low level detection in the method blank.
- Representativeness of the data was verified through the sample collection, storage, and preservation procedures and the verification of holding-time compliance. The laboratory did not note any problems with the sample collection, storage, and preservation procedures. All data reported from analyses were within the USEPA recommended hold-time.

- Comparability of the data was verified using standard analytical procedures and standard units for reporting. Results obtained are comparable to industry standards in that the collection and analytical techniques followed approved, documented procedures.
- Completeness is a measure of the number of valid measurements obtained in relation to the total number of measurements planned. Completeness is expressed as the percentage of valid or usable measurements compared to planned measurements. Valid data are defined as all data that are not rejected for project use. All data were considered valid. The completeness goal was met for all analytes.

TABLE 2

Data Qualification Data

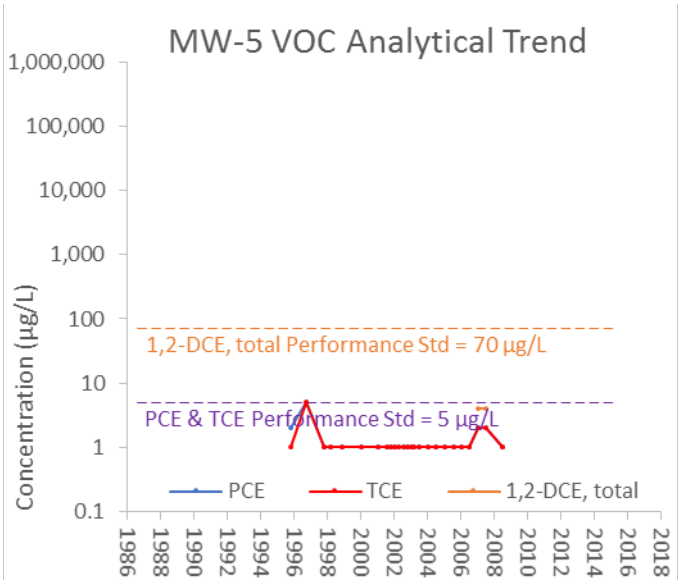
Data Quality Evaluation for Sangamo Weston Plant Site-Annual Groundwater Monitoring Event

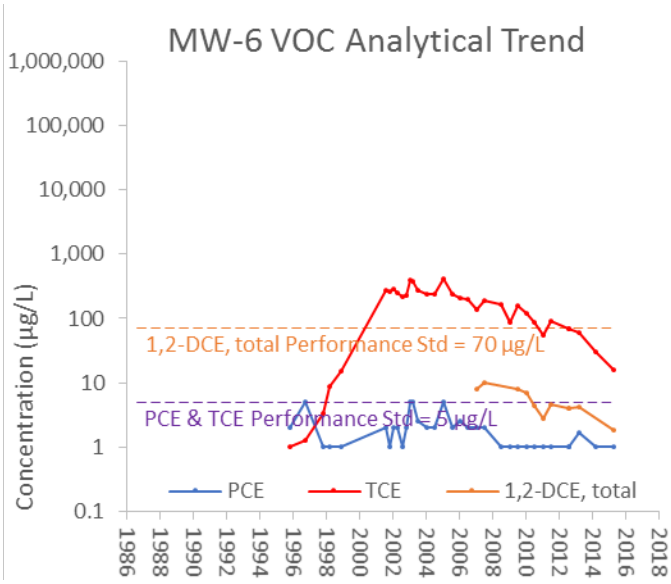
Method	NativeID	SDG Number	Analyte	Units	Final Result	Validation Flag	Validation Reason
SW8260B	SDMW-2-GW-HS-040115	490-75765-1	Tetrachloroethene	ug/L	61.5	J	MS>UCL
SW8082A	SDMW-8-GW-HS-040115	490-75765-1	PCB-1248	ug/L	2.1	J	CF>RPD
SW6010C	SPMW-11-GW-HS-050715	490-78053-1	Sodium	mg/L	3.08	U	LB>MDL
SW8260B	SPMW-17-GW-HS-040115	490-75765-1	Tetrachloroethene	ug/L	21.9	J	FD>RPD
SW8260B	SPMW-17-GW-HS-040115	490-75765-1	Trichloroethene	ug/L	34.1	J	FD>RPD
SW8260B	SPMW-17-GW-HS-040115	490-75765-1	cis-1,2-Dichloroethene	ug/L	2.27	J	FD>RPD
SW8260B	SPMW-17-GW-HS-040115-FD	490-75765-1	Tetrachloroethene	ug/L	121	J	FD>RPD
SW8260B	SPMW-17-GW-HS-040115-FD	490-75765-1	Trichloroethene	ug/L	186	J	FD>RPD
SW8260B	SPMW-17-GW-HS-040115-FD	490-75765-1	cis-1,2-Dichloroethene	ug/L	16.7	J	FD>RPD
SW8260B	SWMW-5-GW-HS-040215	490-75790-1	Vinyl chloride	ug/L	2.57	J	MS>UCL

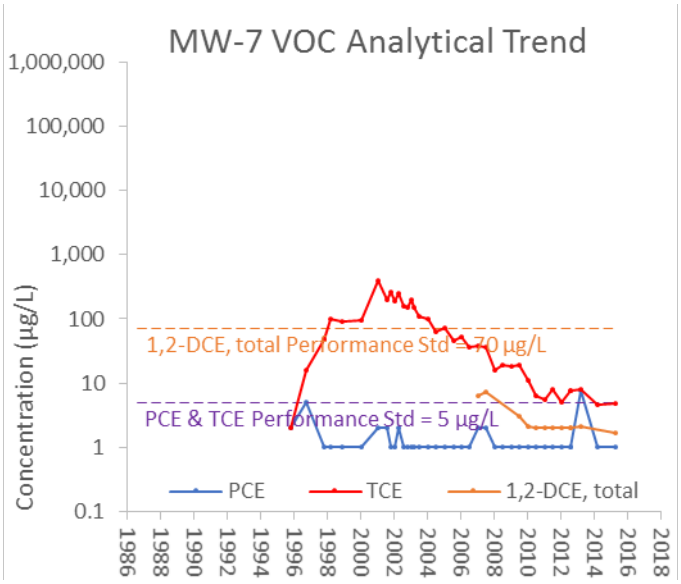
Validation Reasons:

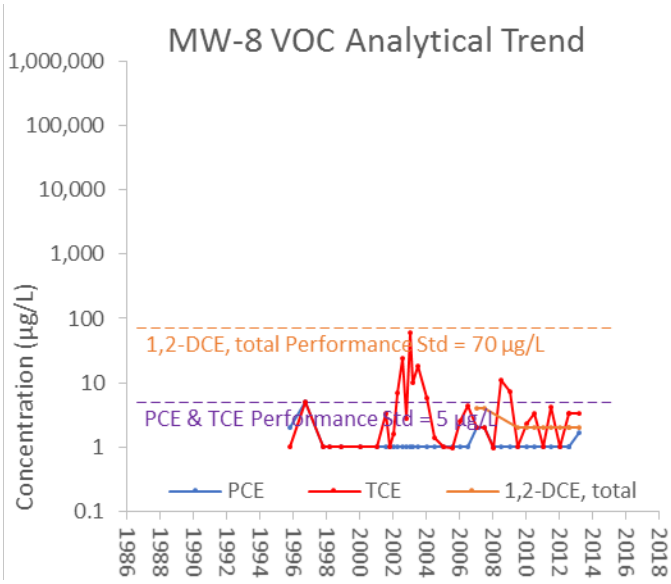
CF>RPD	The column confirmation exceeded RPD control limits.
FD>RPD	The field duplicate exceeded RPD control limits.
LB>MDL	The analyte was detected at a concentration greater than the method detection limit in the lab blank.
MS>UCL	The MS was recovered greater than control limits.

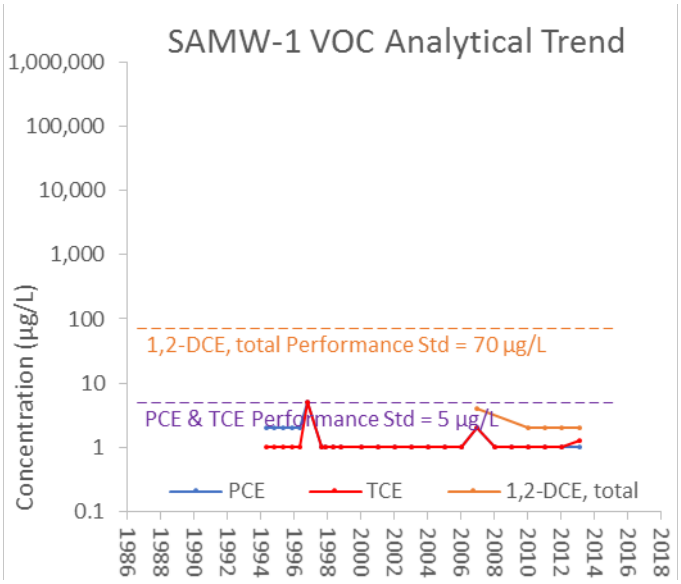
Appendix C
Analytical Trends

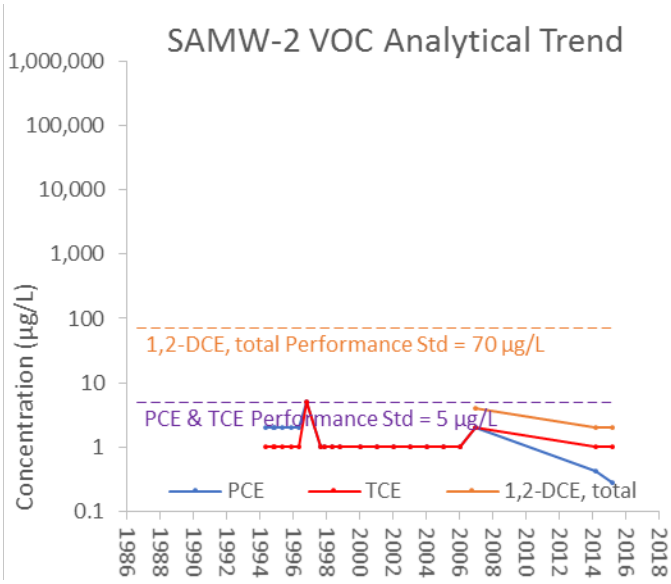

MW-5 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

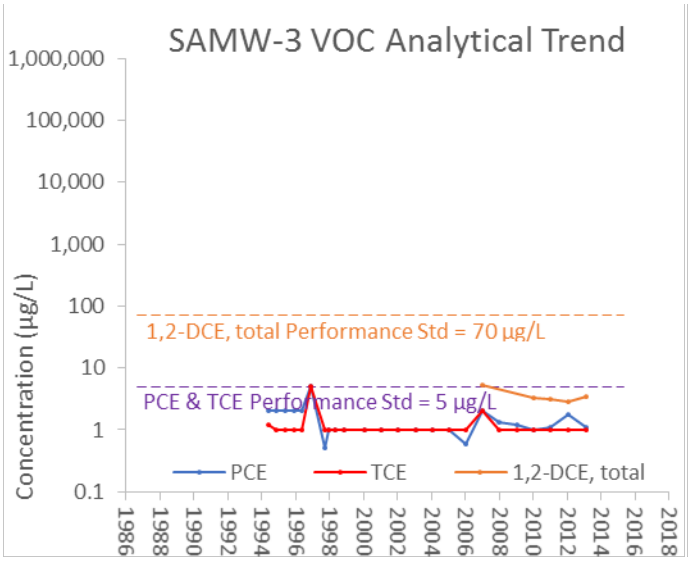

MW-6 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

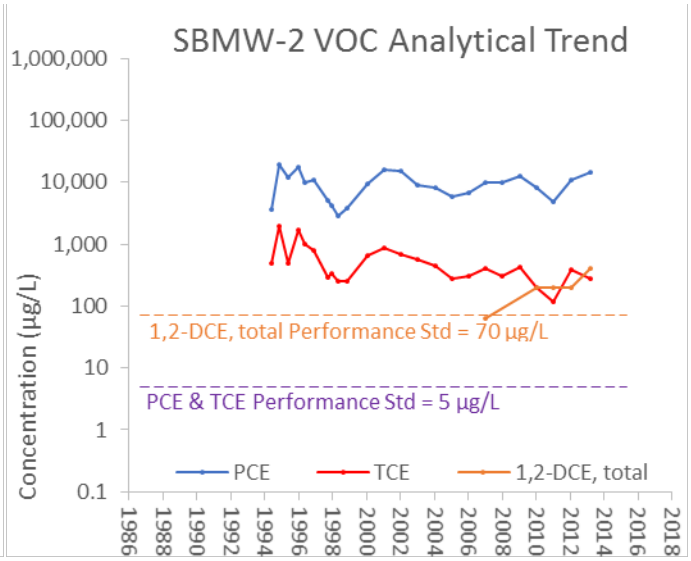

MW-7 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

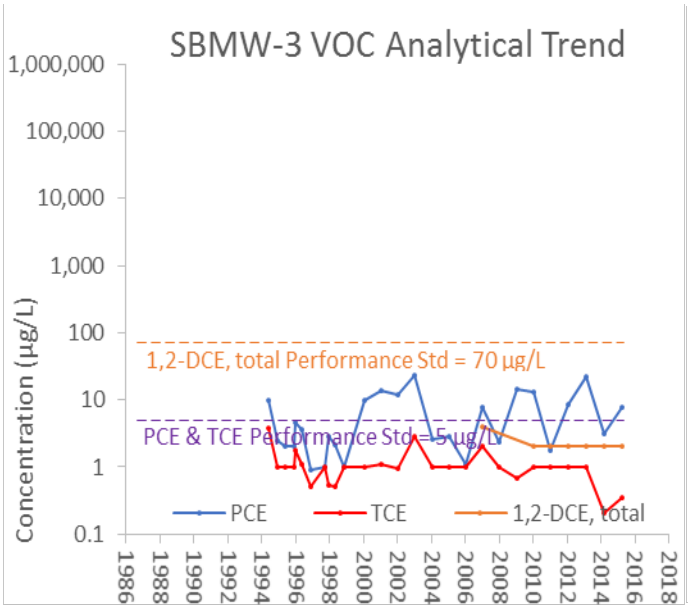

MW-8 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

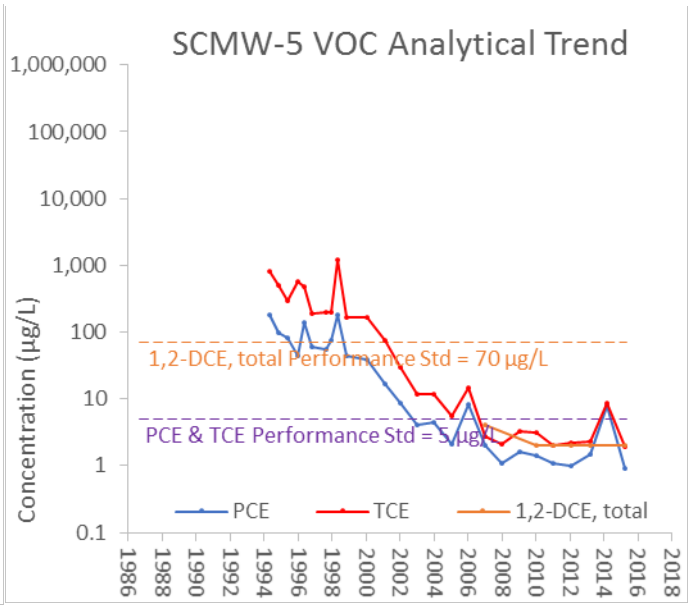

SAMW-1 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

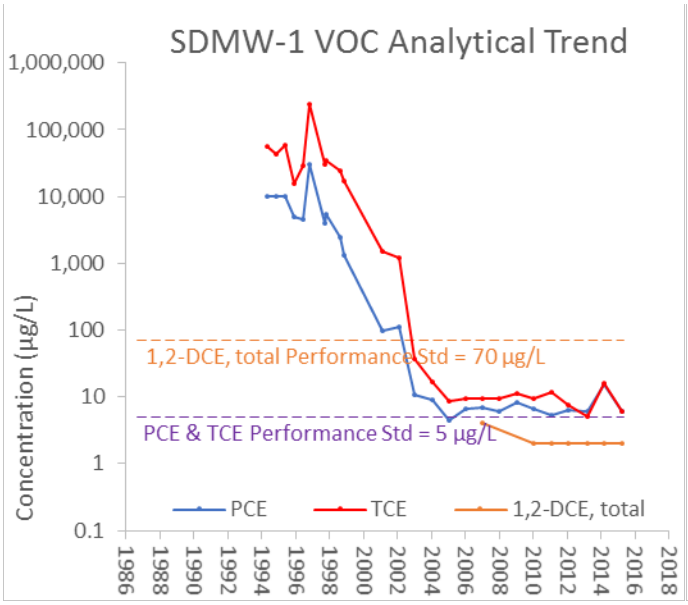

SAMW-2 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

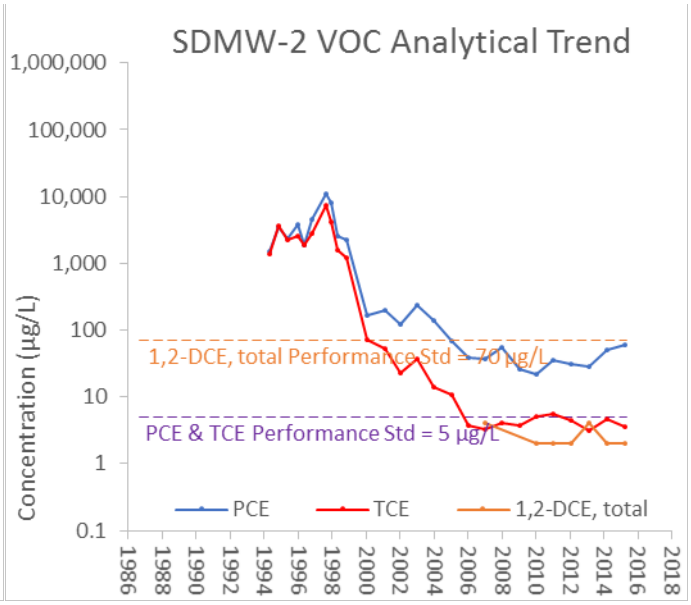

SAMW-3 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

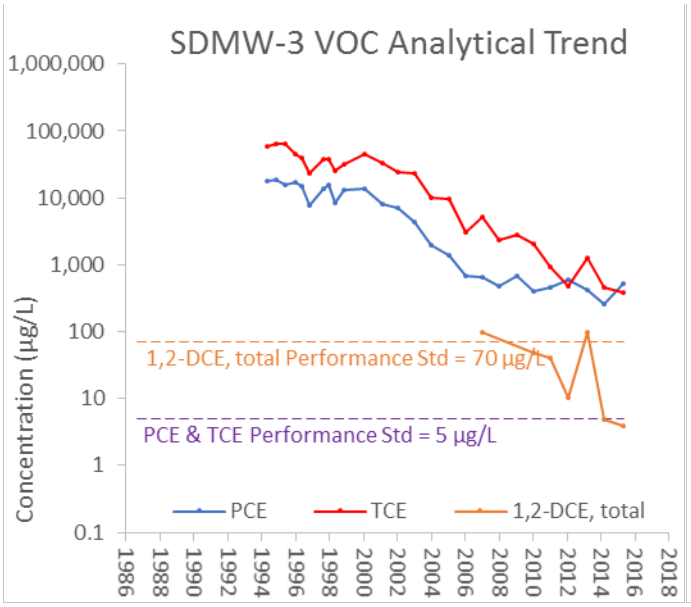

SBMW-2 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

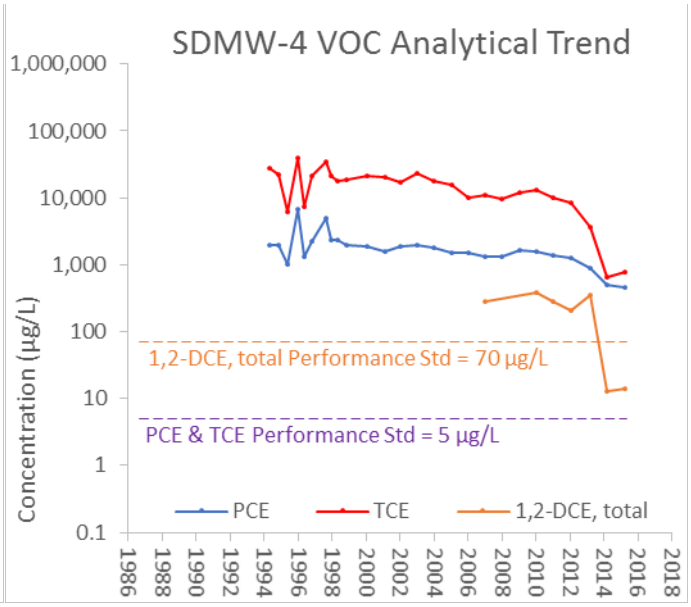

SBMW-3 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

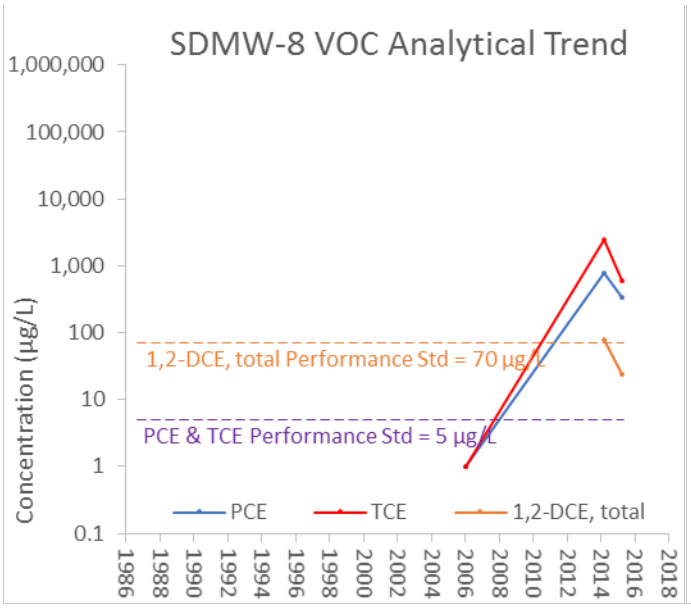

SCMW-5 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

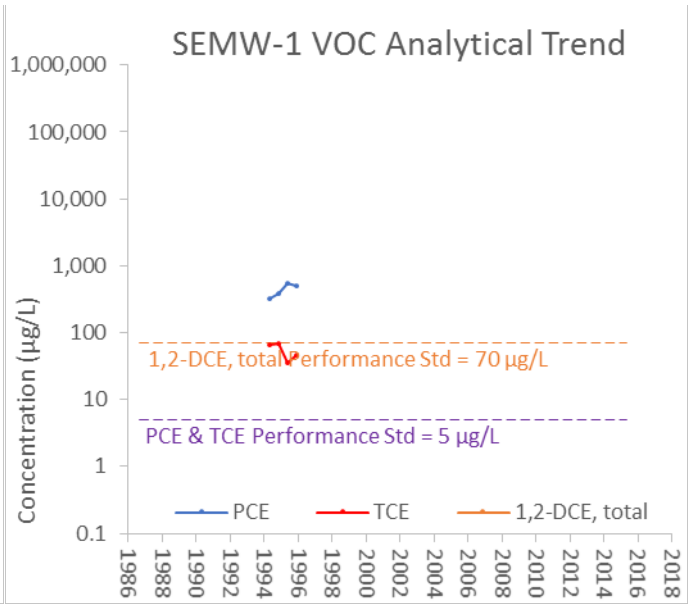

SDMW-1 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

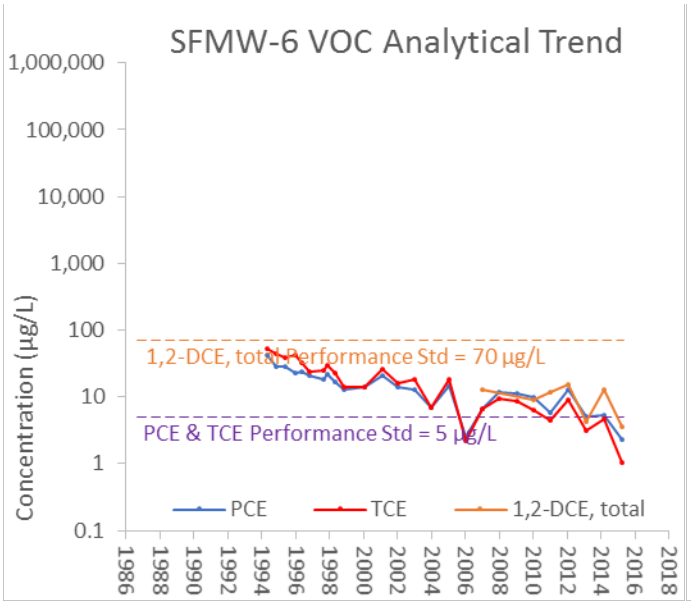

SDMW-2 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

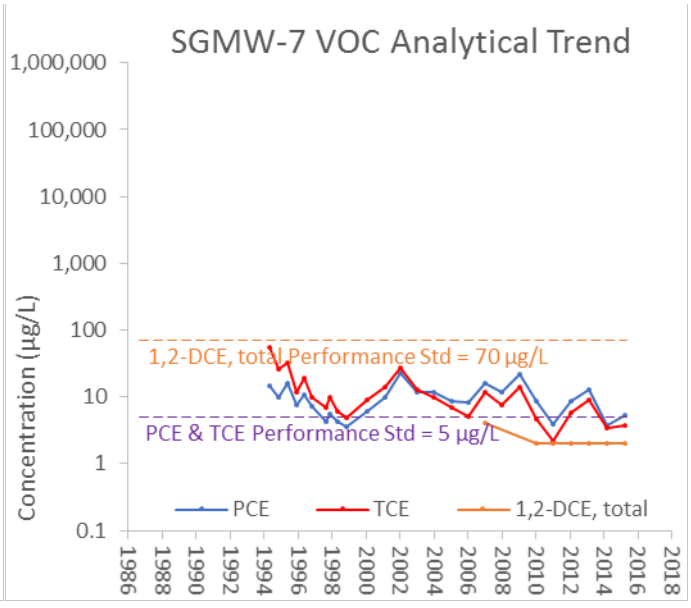

SDMW-3 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

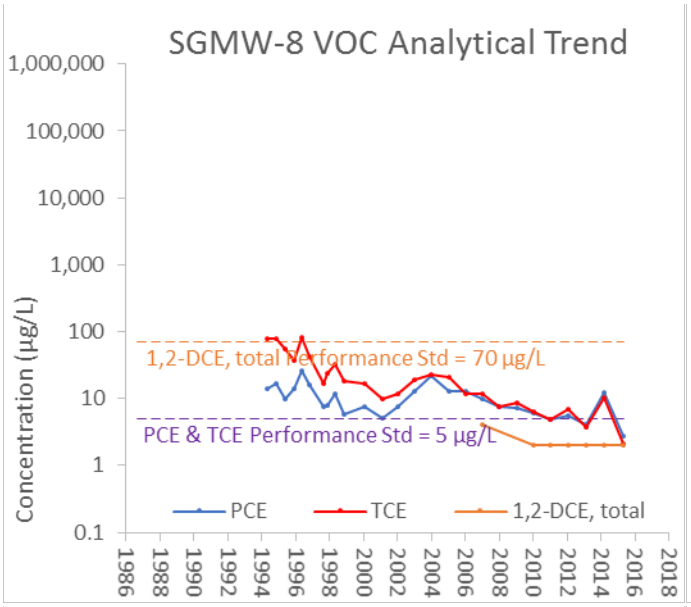

SDMW-4 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

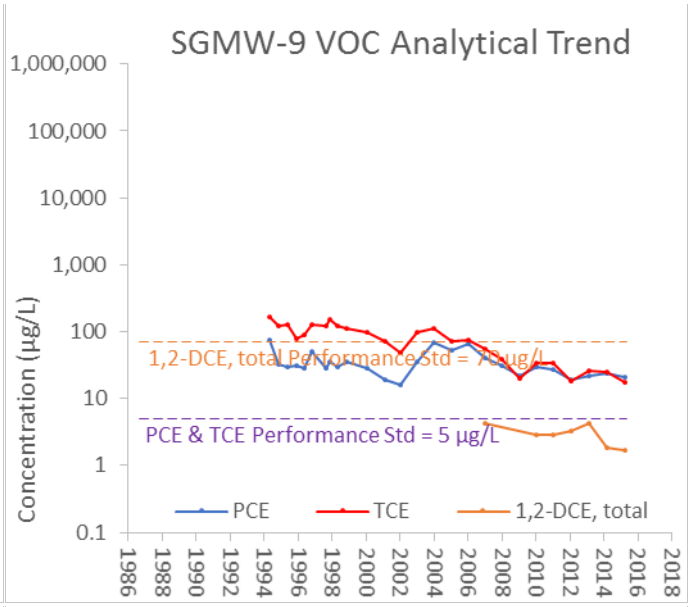

SDMW-8 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

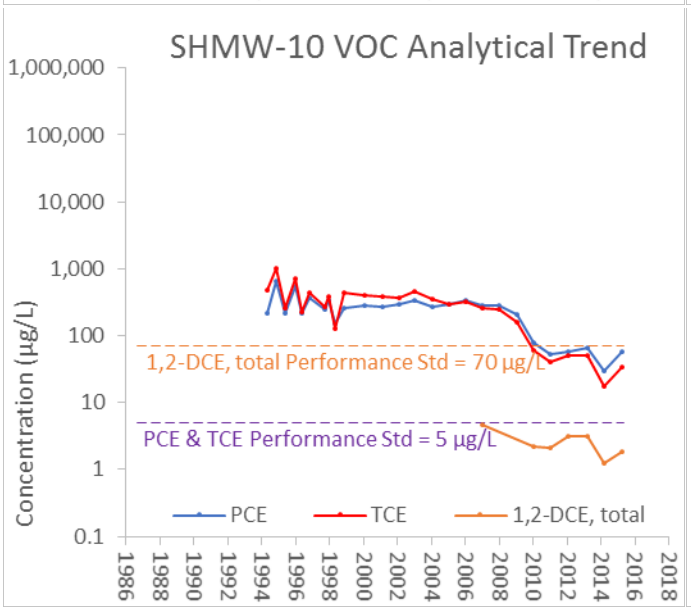

SEMW-1 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

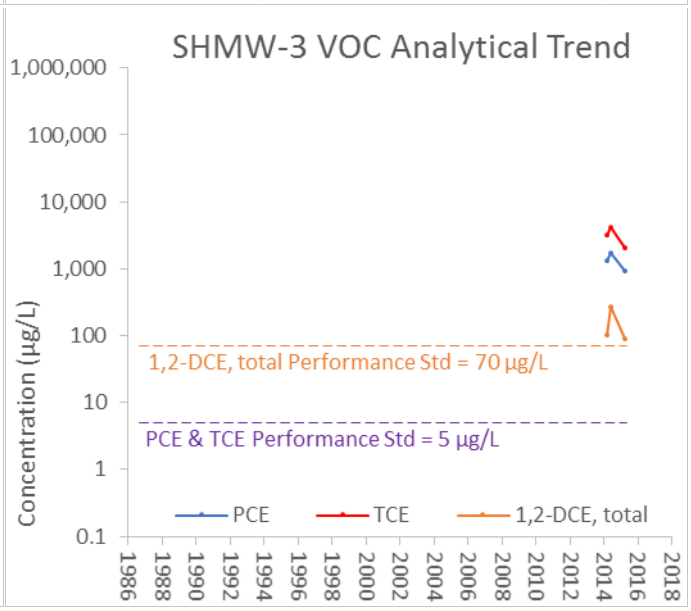

SFMW-6 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

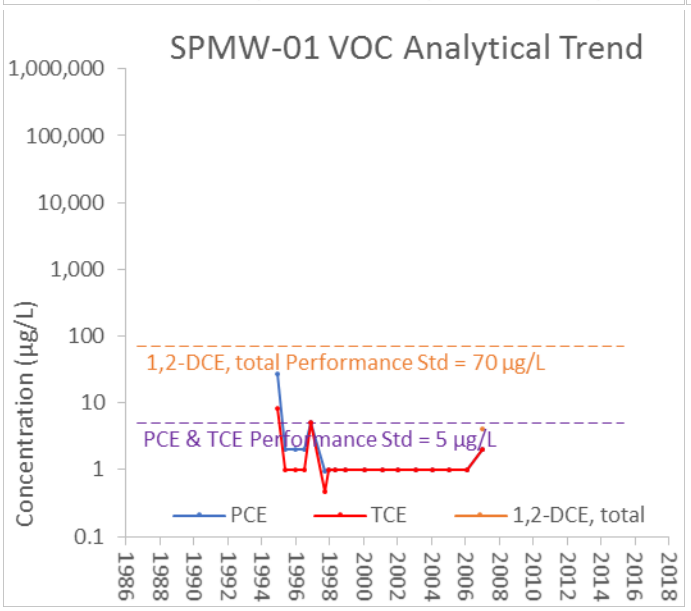

SGMW-7 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

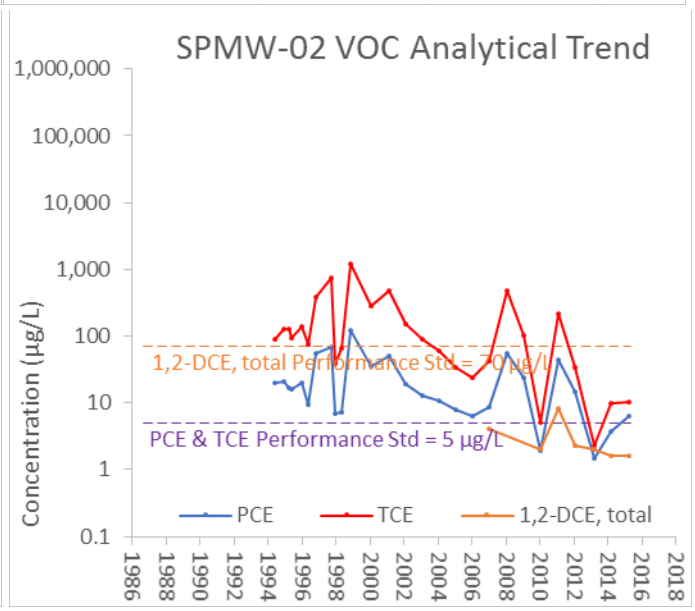

SGMW-8 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

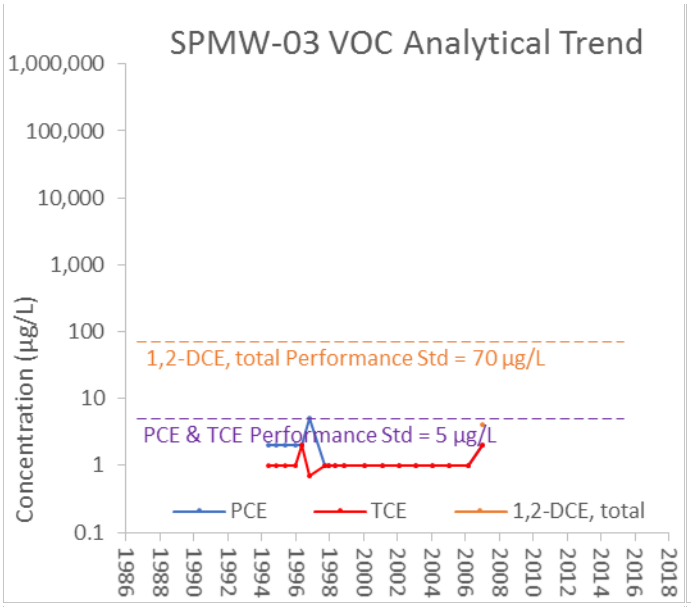

SGMW-9 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

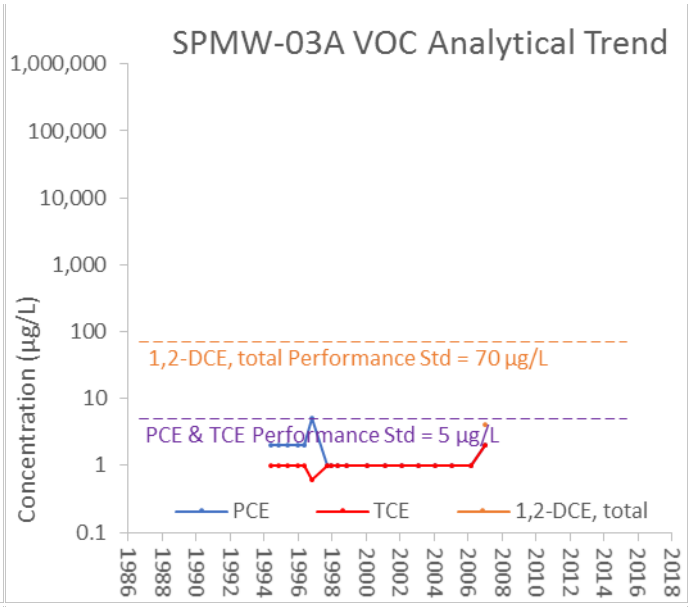

SHMW-10 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

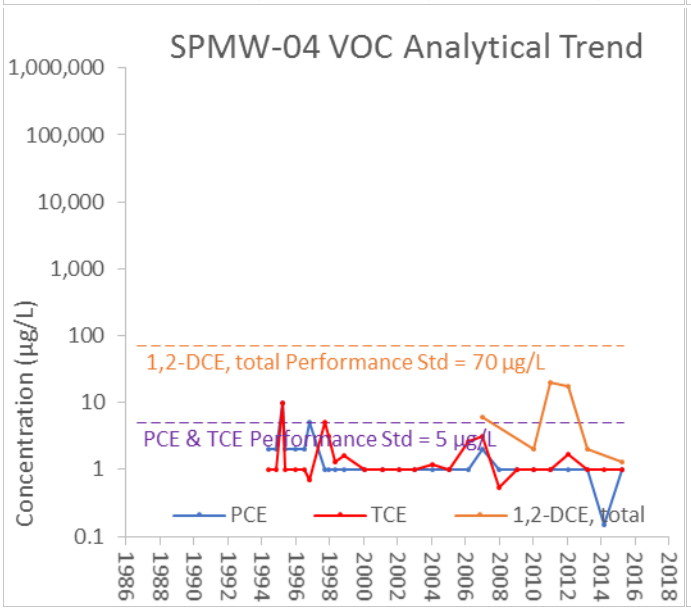

SHMW-3 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

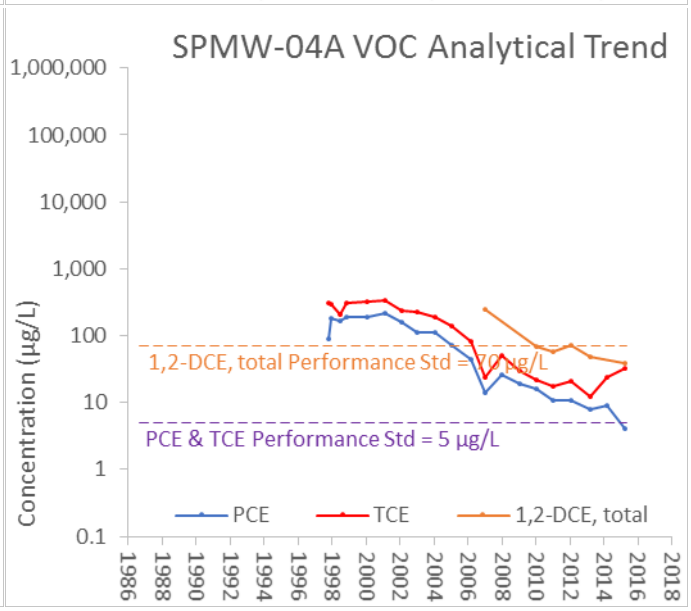

SPMW-01 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

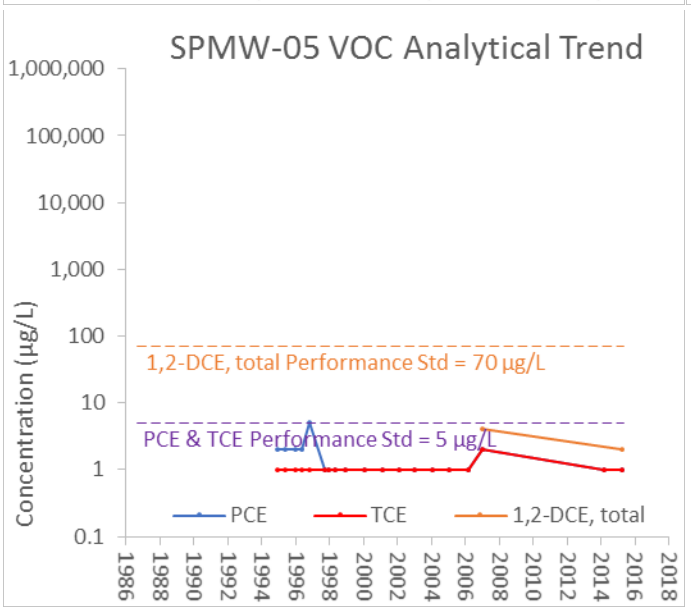

SPMW-02 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

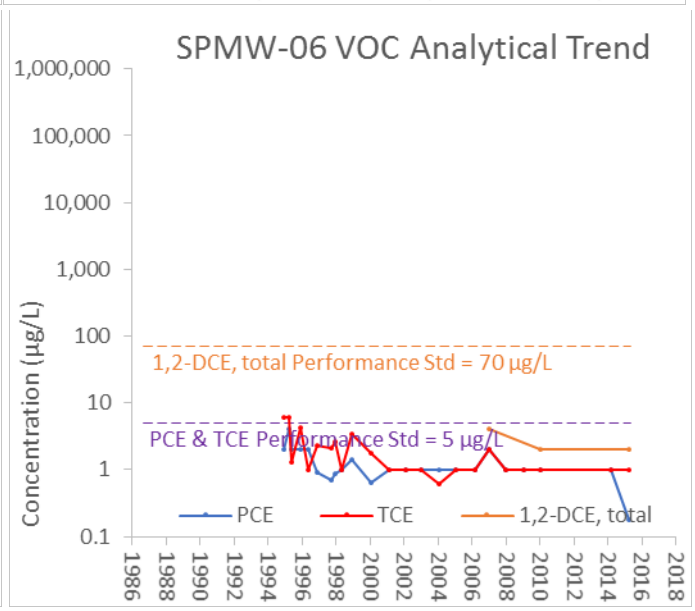

SPMW-03 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

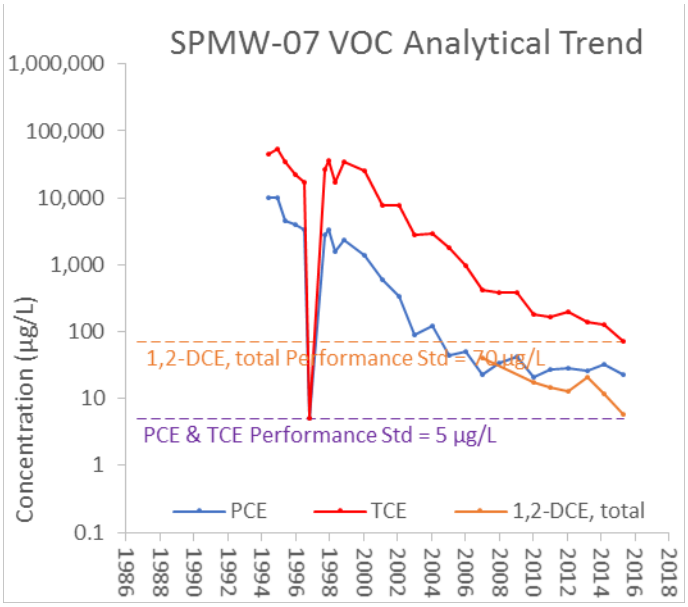

SPMW-03A VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

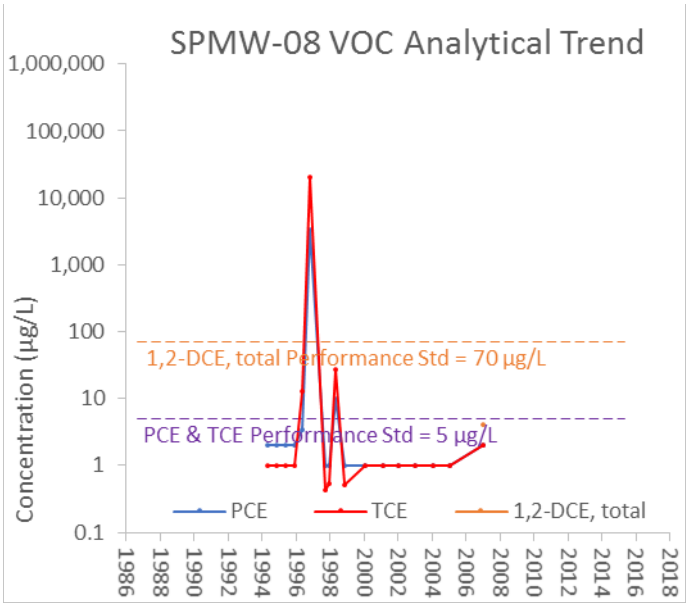

SPMW-04 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

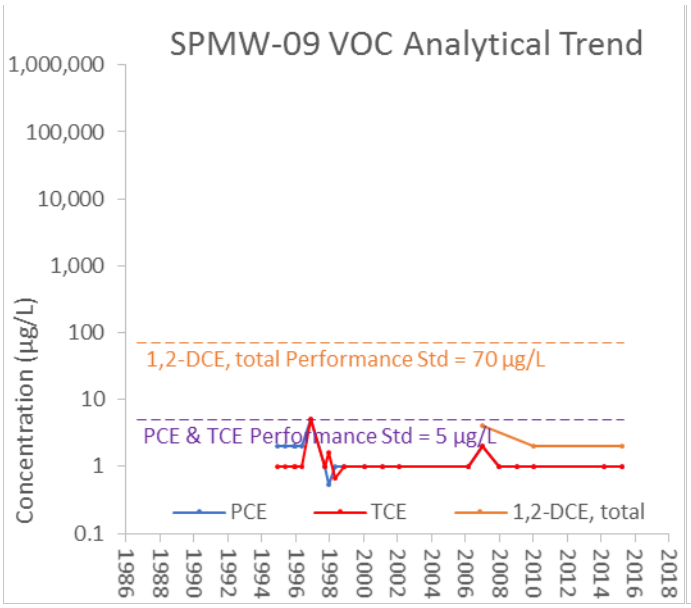

SPMW-04A VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

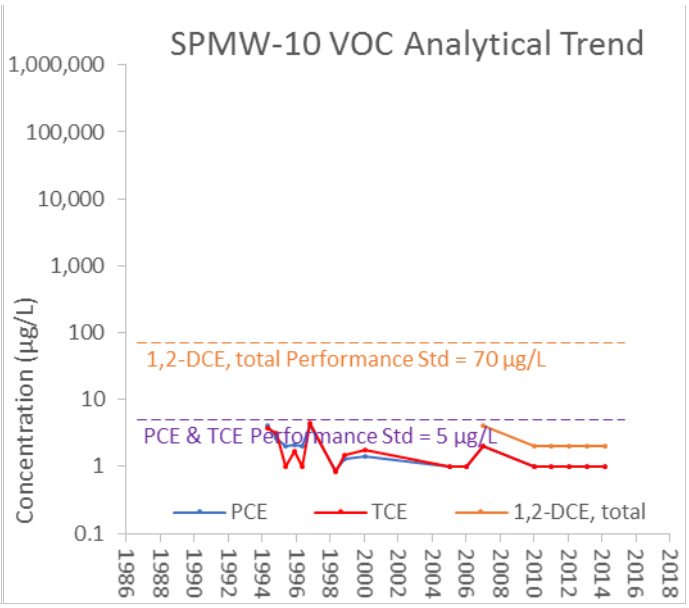

SPMW-05 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

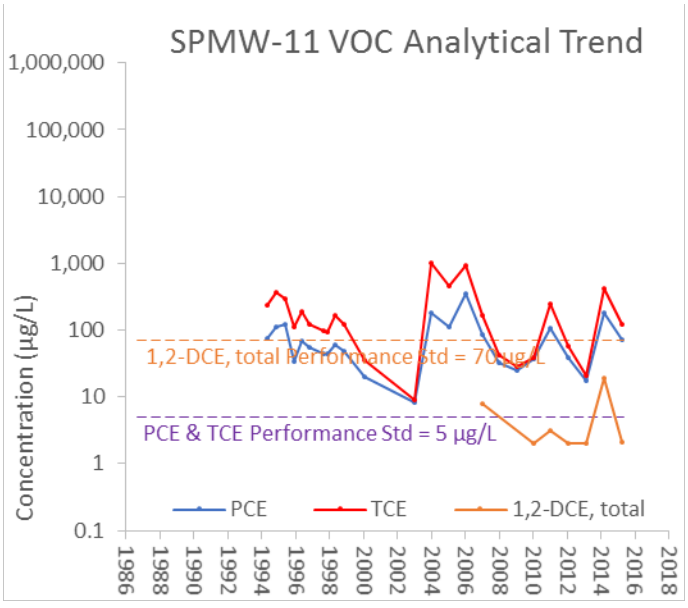

SPMW-06 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

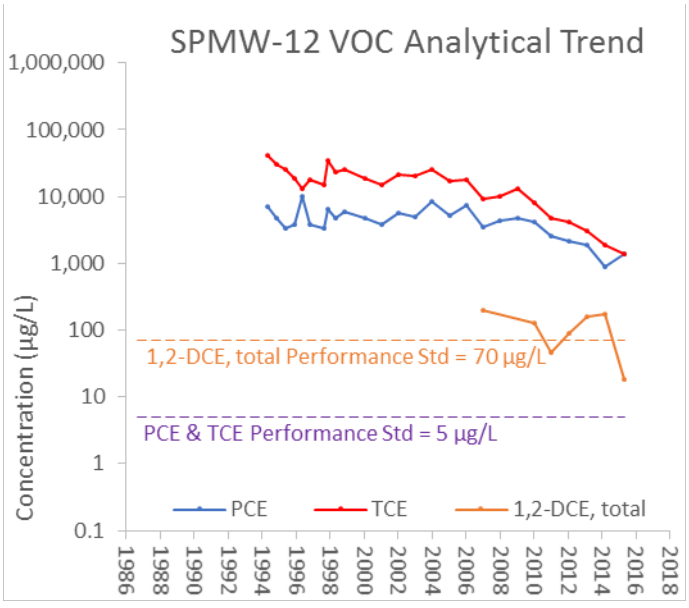

SPMW-07 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

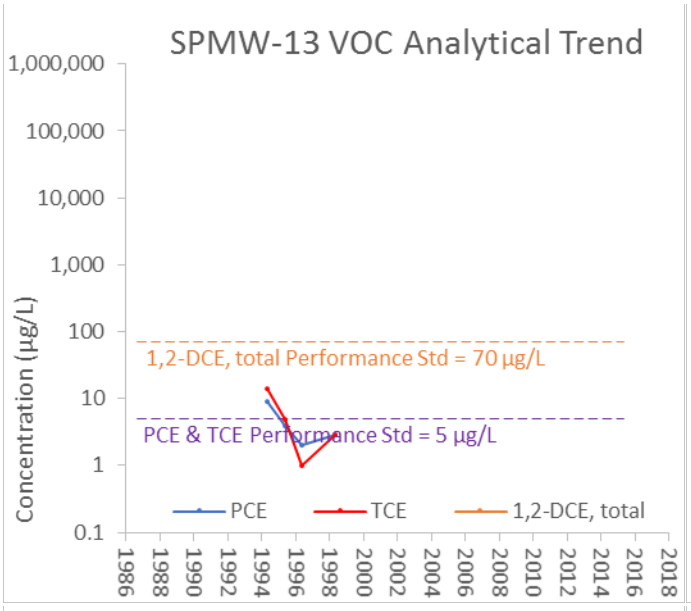

SPMW-08 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

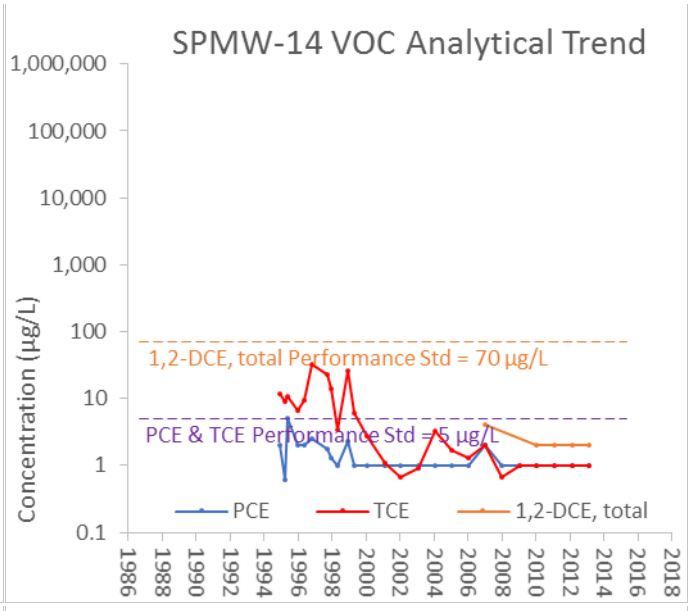

SPMW-09 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

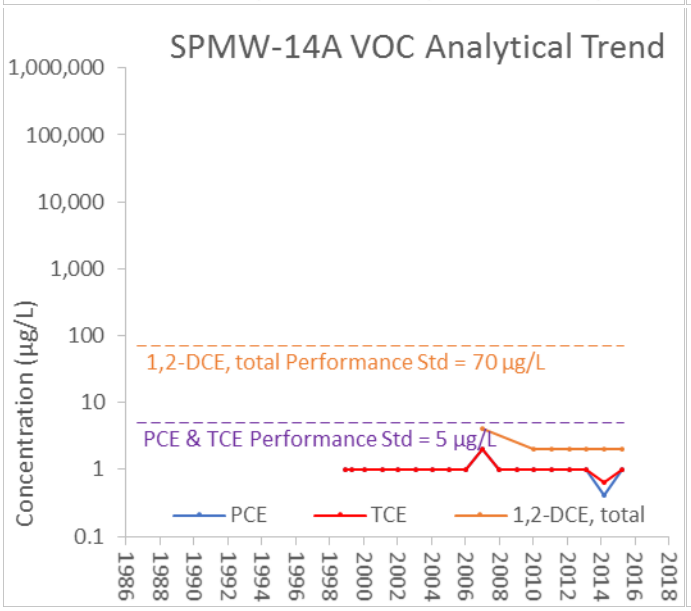

SPMW-10 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

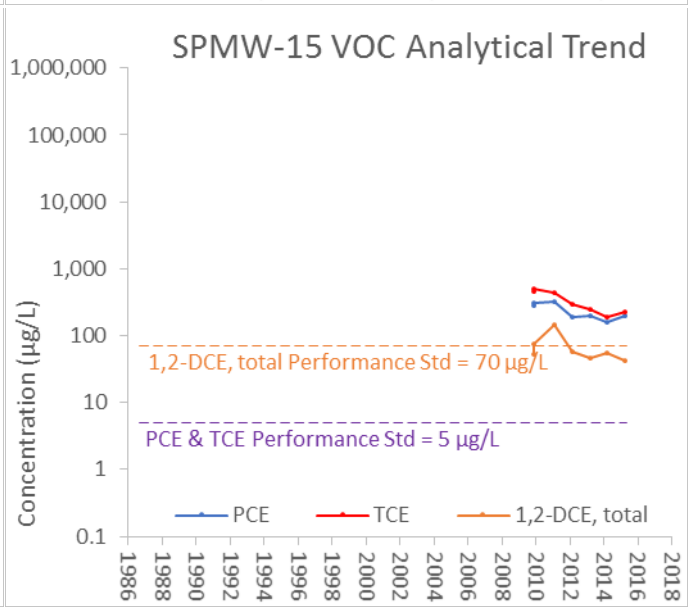

SPMW-11 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

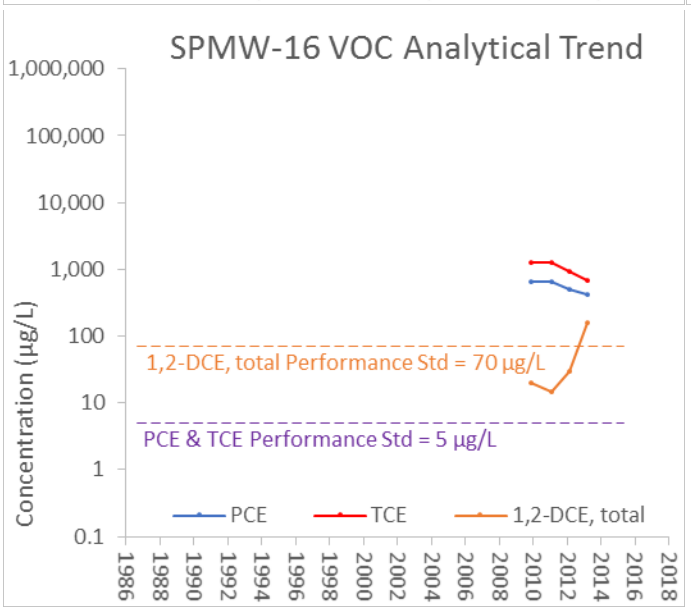

SPMW-12 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

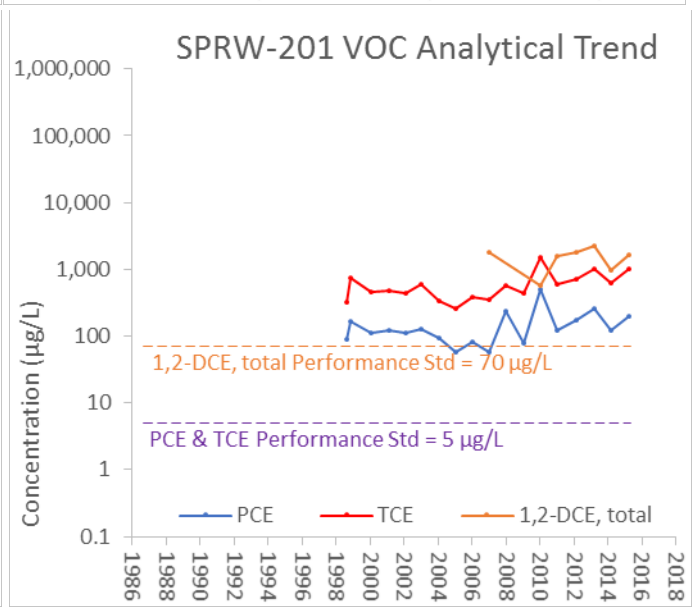

SPMW-13 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

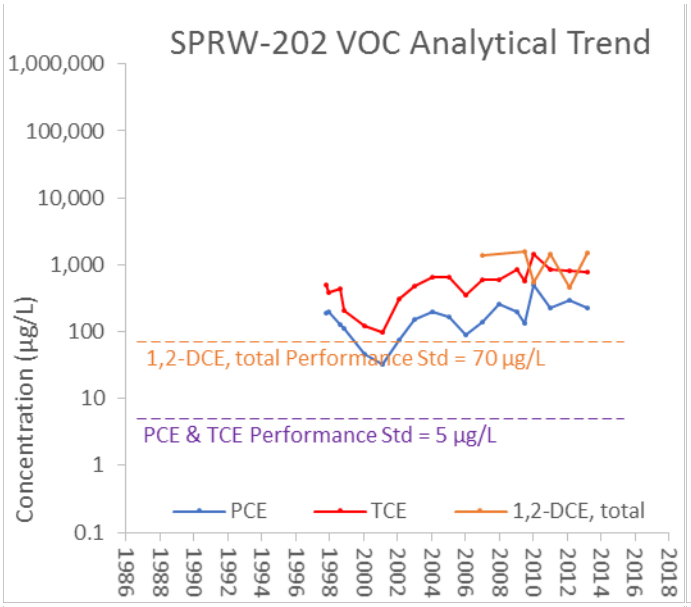

SPMW-14 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

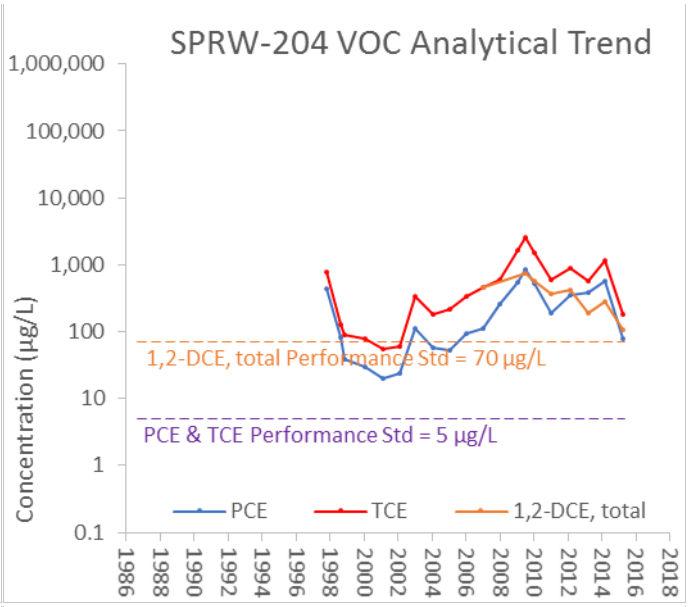

SPMW-14A VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

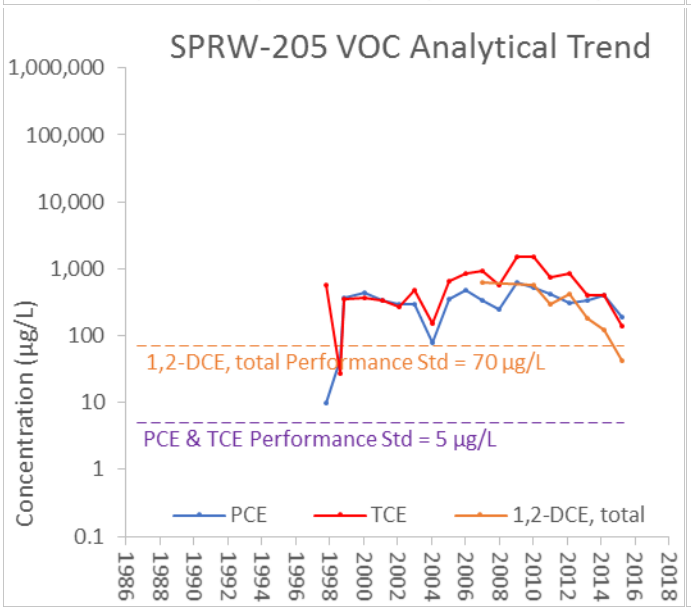

SPMW-15 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

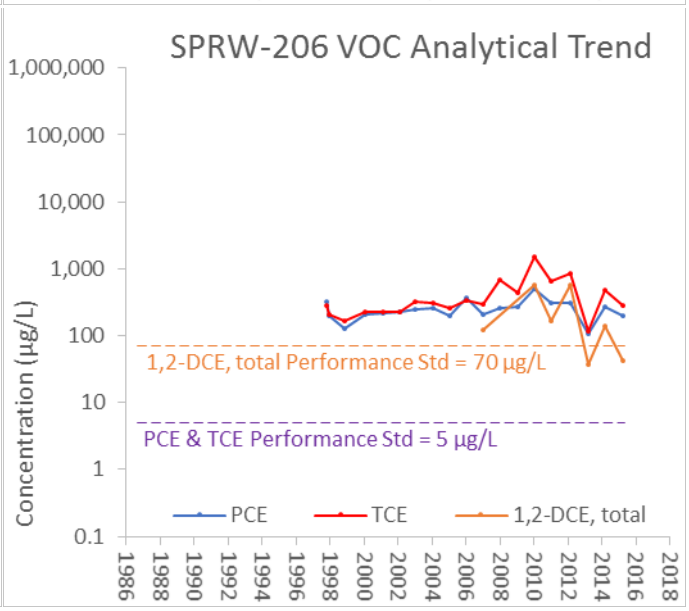

SPMW-16 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

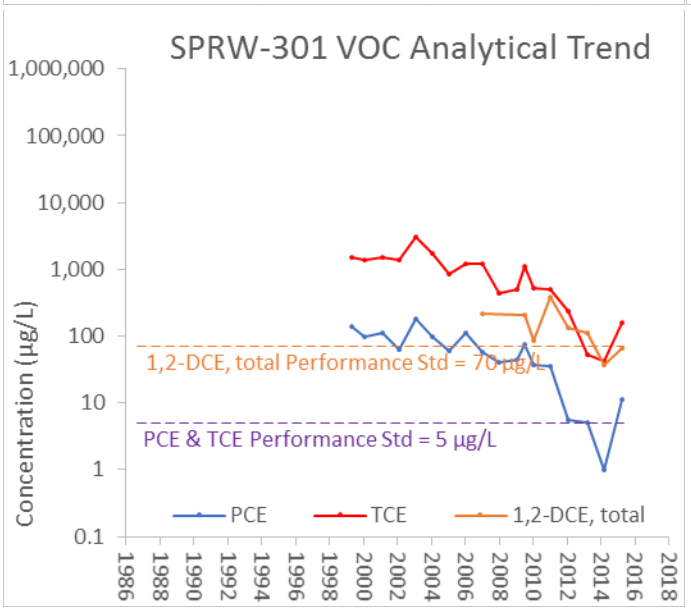

SPRW-201 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

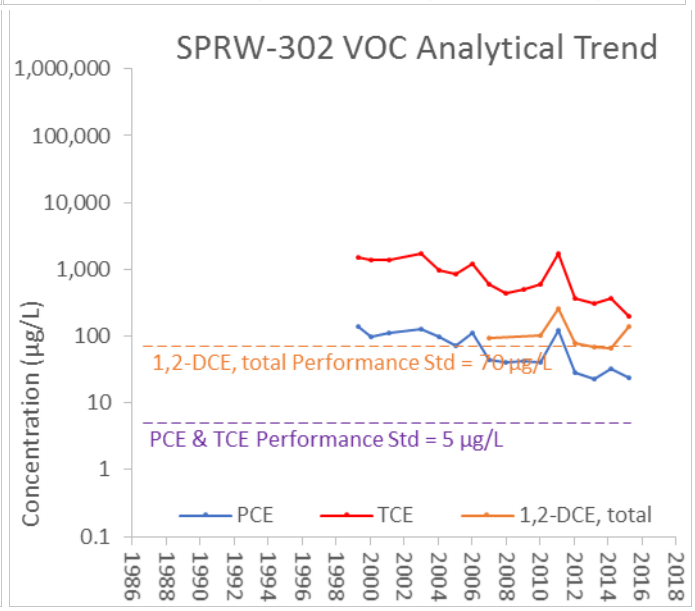

SPRW-202 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

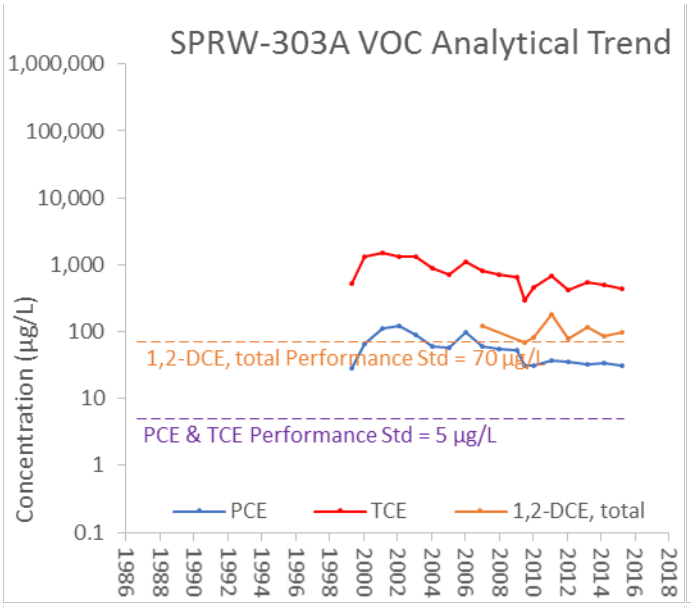

SPRW-204 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

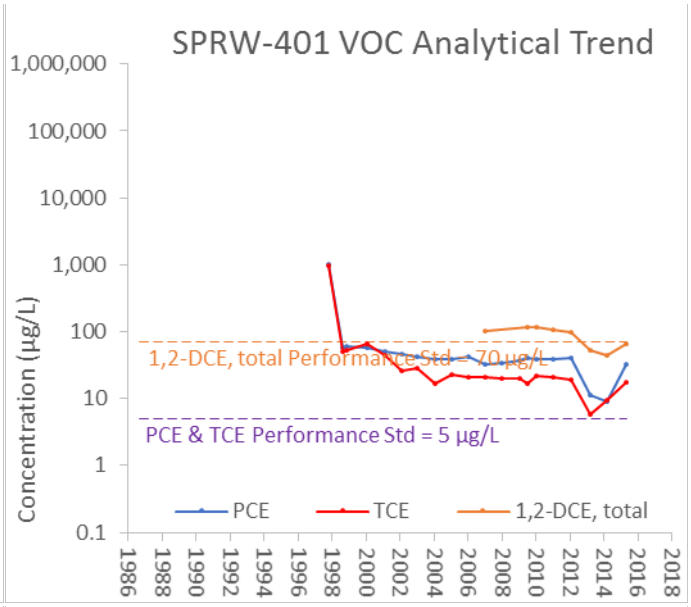

SPRW-205 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

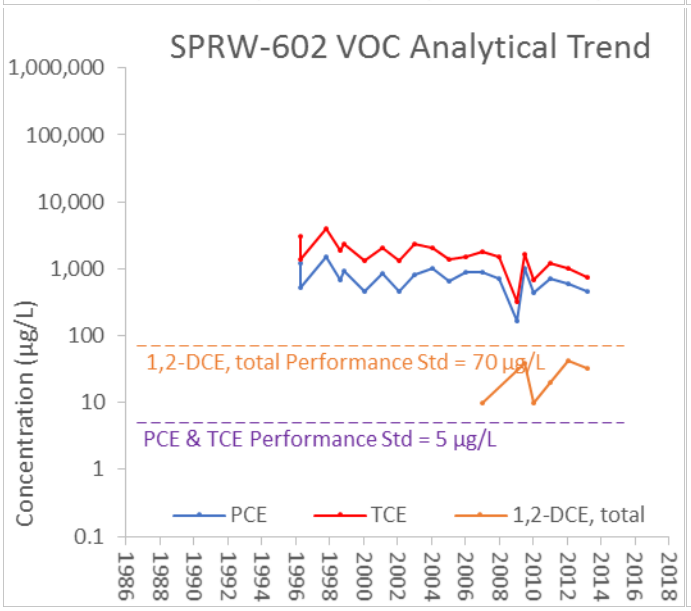

SPRW-206 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

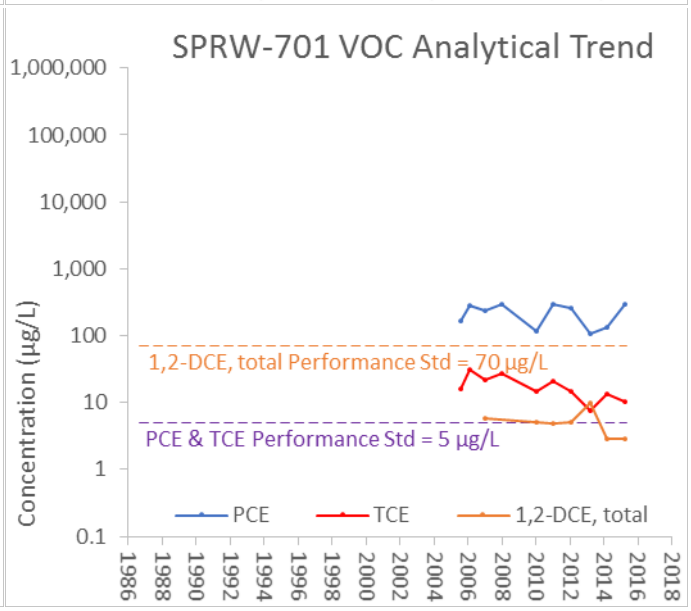

SPRW-301 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

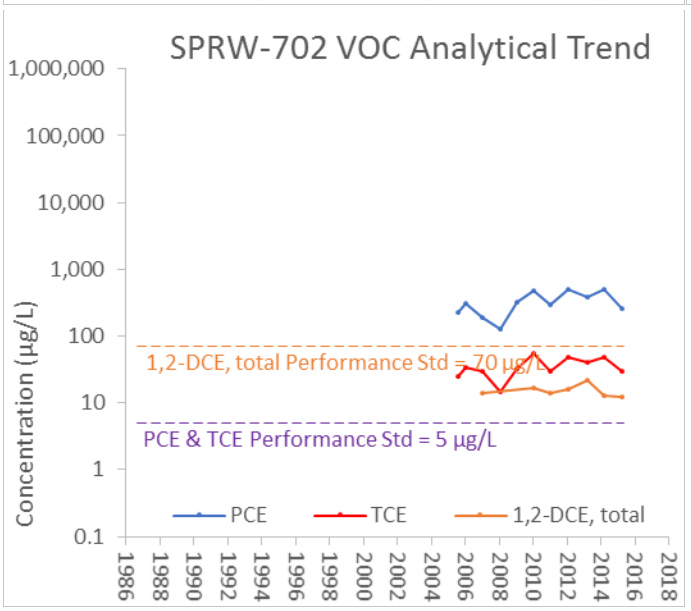

SPRW-302 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

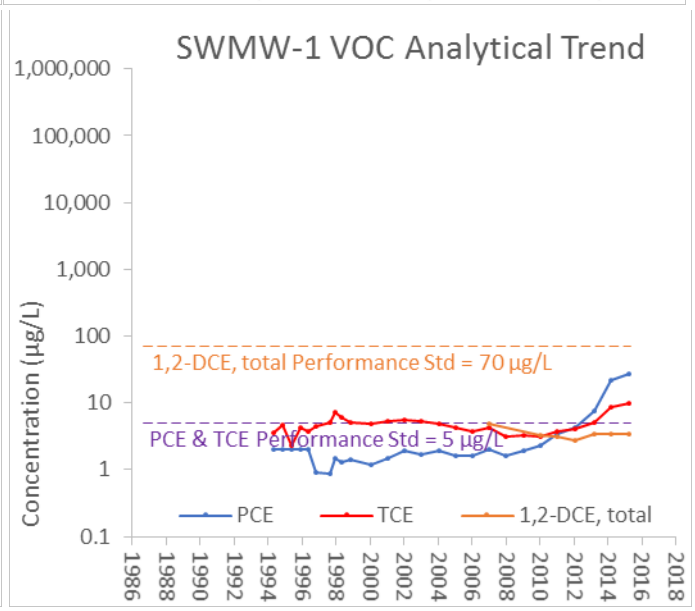

SPRW-303A VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

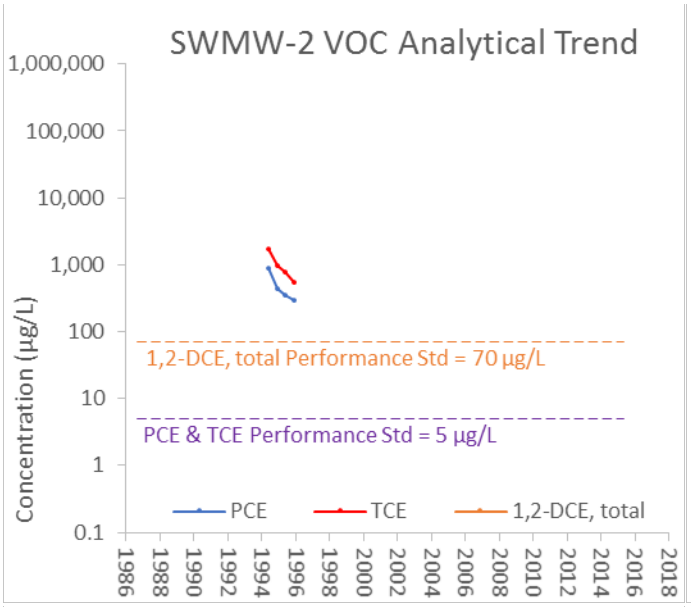

SPRW-401 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

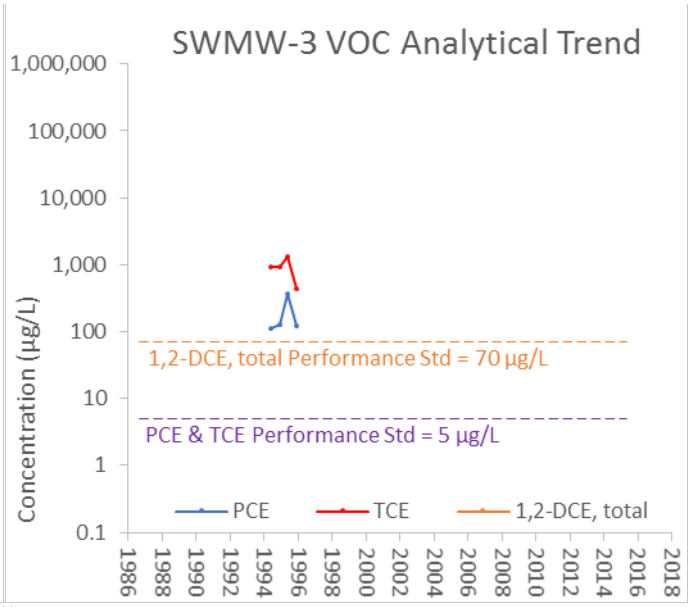

SPRW-602 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

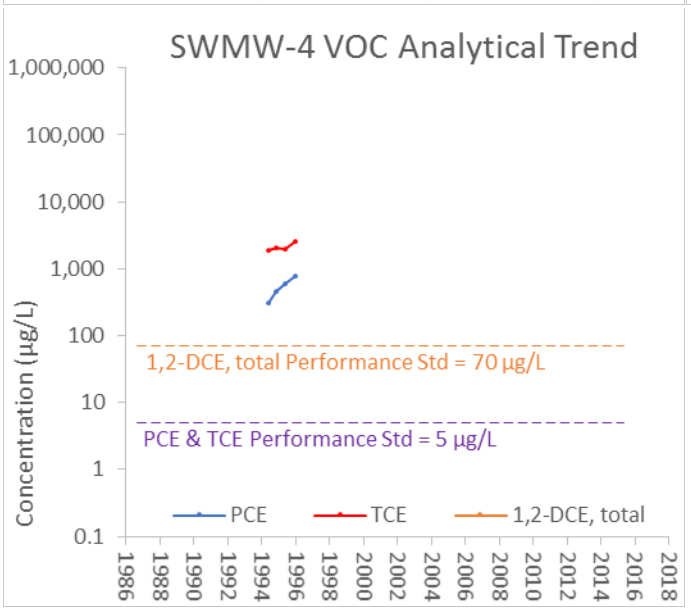

SPRW-701 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

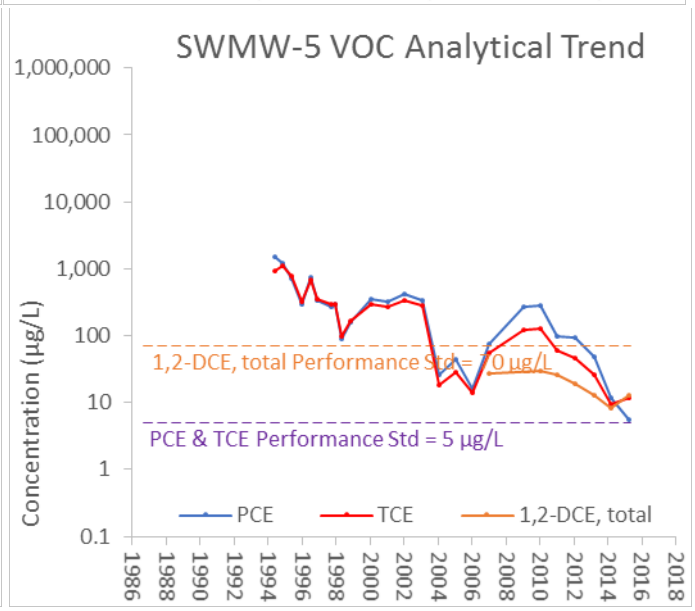

SPRW-702 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

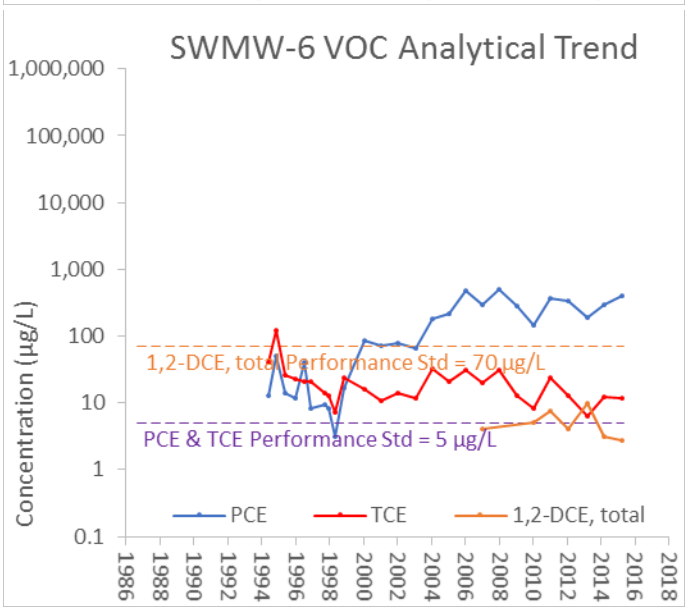

SWMW-1 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

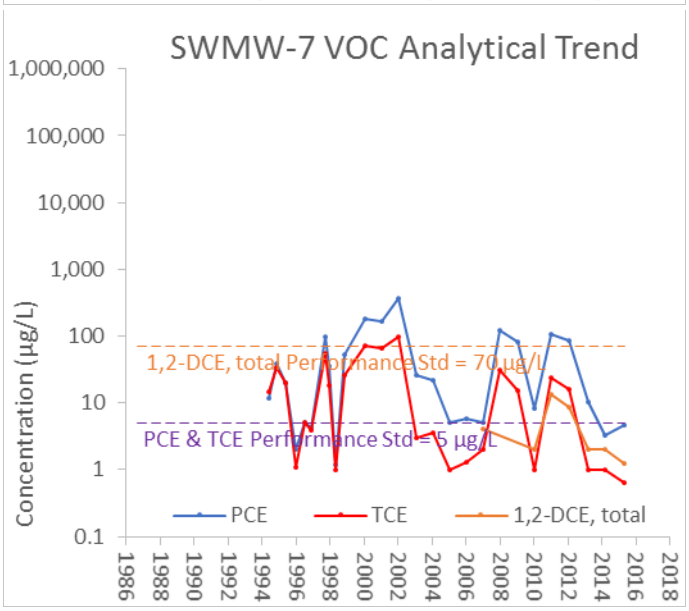

SWMW-2 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

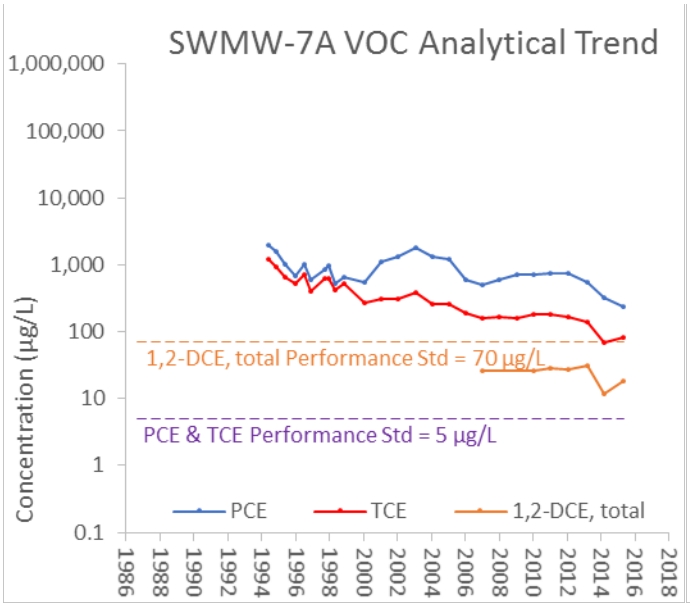

SWMW-3 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

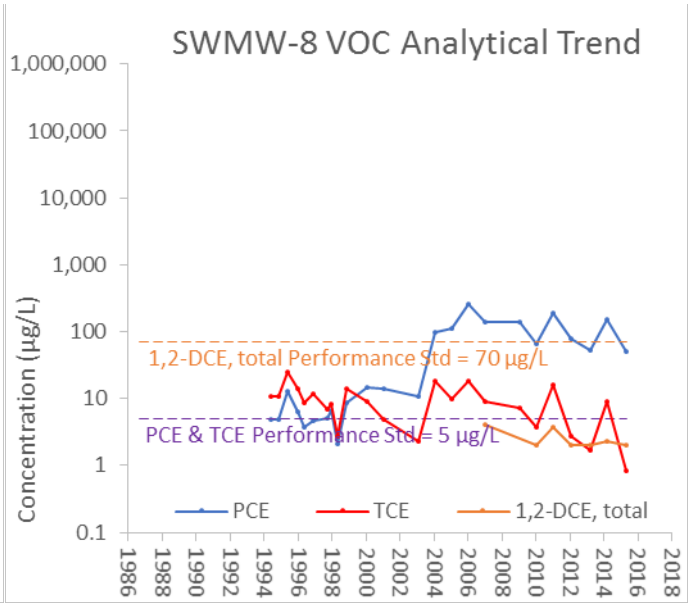

SWMW-4 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

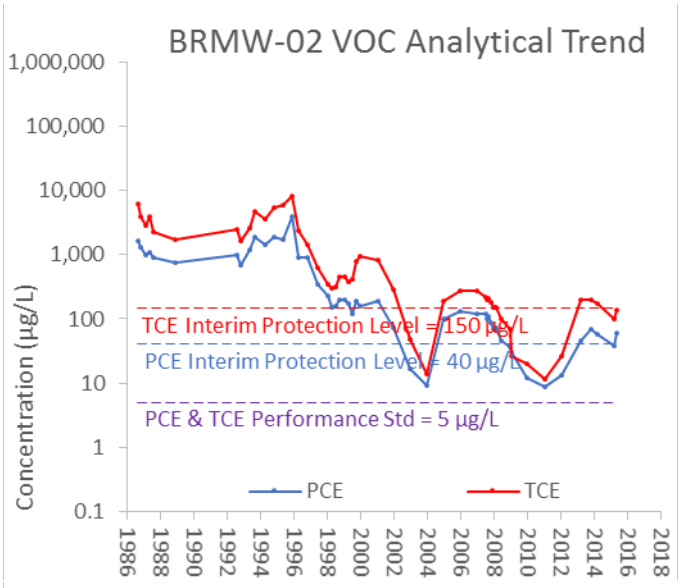

SWMW-5 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018

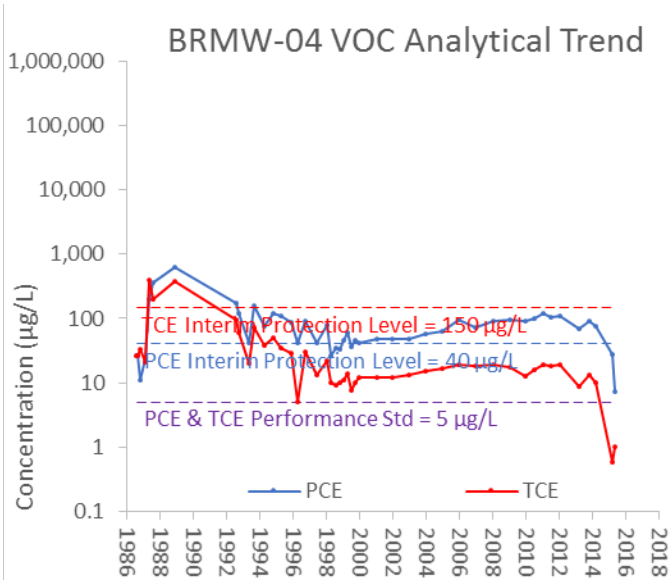

SWMW-6 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018


SWMW-7 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018


SWMW-7A VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018


SWMW-8 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
1,2-DCE, total Performance Std = 70 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1,2-DCE, total
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018


BRMW-02 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
TCE Interim Protection Level = 150 µg/L
PCE Interim Protection Level = 40 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018


BRMW-04 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
TCE Interim Protection Level = 150 µg/L
PCE Interim Protection Level = 40 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1986
1988
1990
1992
1994
1996
1998
2000
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2004
2006
2008
2010
2012
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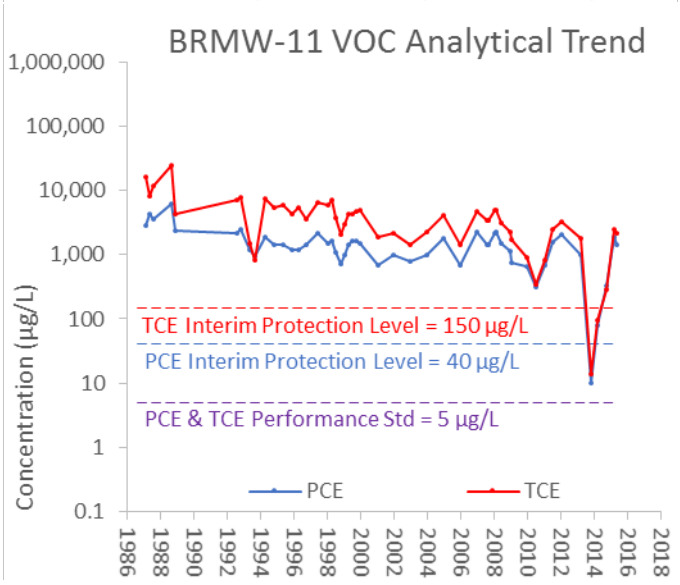
2016
2018


BRMW-11 VOC Analytical Trend
Concentration (µg/L)
1,000,000
100,000
10,000
1,000
100
10
1
0.1
TCE Interim Protection Level = 150 µg/L
PCE Interim Protection Level = 40 µg/L
PCE & TCE Performance Std = 5 µg/L
PCE
TCE
1986
1988
1990
1992
1994
1996
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2004
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2008
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2012
2014
2016
2018

Appendix D
Technical Memorandum: ISCO Injection Report
Former Sangamo Weston, Inc., Operable Unit 1 (Area H), Pickens, South Carolina

In Situ Chemical Oxidation Injection Report Former Sangamo Weston, Inc., Operable Unit 1 (Area H), Pickens, South Carolina

PREPARED FOR:	Vic Cocianni/Schlumberger Technology Corporation Greg Cassidy/SCDHEC Chuck Williams/SCDHEC Chris Wargo/SCDHEC Craig Zeller/U.S. Environmental Protection Agency
PREPARED BY:	CH2M HILL
DATE:	November 20, 2014
COPY TO:	CH2M HILL Project File

As part of the approved 2013 Areas B and H removal action work plan, an injection gallery was installed at the base of the Area H excavation to facilitate in situ vadose zone and groundwater remediation of trichloroethene (TCE) and tetrachloroethene (PCE). The injection gallery consisted of a horizontal slotted pipe within a gravel layer at the base of the excavation to facilitate reagent distribution. **Figure 1** shows a schematic of the Area H injection gallery construction details. **Figure 2** shows the locations of cross sections presented in Figure 1 and nearby well locations. This technical memorandum summarizes the Area H injection activities that occurred between November 3 and 6, 2014. Groundwater sampling of the surrounding monitoring wells will be completed as part of the sitewide groundwater gauging and sampling event scheduled for March 2015. The injection activities were completed in accordance with the underground injection control permit application submitted to the South Carolina Department of Environmental Control (SCDHEC) on August 4, 2014 and as approved by SCDHEC (Permit No. SCHE03020417).

Chemical Oxidant Injection Activities

On October 27, 2014, 200 gallons of 40 percent sodium permanganate in drums were delivered to Area H. Personnel mobilized to the site on November 3, 2014, with the injection equipment and water truck. Upon arrival, site preparations, including additional secondary containment for chemical storage and mixing, were completed and documented. Potable water was procured from the Pickens County fire department and transported with the water truck to the site in 1,700-gallon batches. Once onsite, the water truck and chemical vacuum pipe were plumbed to the inlet of the transfer pump with 1-inch hose and Tee fitting. Using ball valves, the flow rate from the water truck and permanganate drum were set to yield an approximate 1 percent sodium permanganate solution. The valves were set to inject approximately 1 drum of permanganate per 1,700-gallon batch of water. The water and sodium permanganate were blended in the pump and then discharged to the injection gallery through a 1-inch hose.

On November 4 and 5, approximately 8,827 gallons of potable water and 200 gallons of 40 percent sodium permanganate were injected in to the Area H vadose zone through the injection gallery. Injection rates averaged 20 gallons per minute. Once the drums and pails of sodium permanganate were emptied, they were rinsed with potable water from the water truck, and the rinsate was injected into the injection gallery. A final 1,700 gallons of water was used as a clean-water flush of the system and equipment. Four monitoring wells (SHMW-2, SHMW-3, SGMW-7, and SGMW-8) were used to monitor mounding and were gauged prior to injection and at the end of each day. No mounding was observed. **Attachment 1** includes a summary of the injection, gauging data and field activities (field notes). **Attachment 2** is a photograph log of the field activities.

Performance monitoring will be conducted in March 2015 during the sitewide groundwater gauging and sampling event. Pending the results of the sitewide sampling, additional injections in to the Area H gallery will be considered.

PROFESSIONAL CERTIFICATION

I, Dean Williamson, South Carolina Professional Engineer No. 21428, certify that I currently hold an active license in the State of South Carolina and the enclosed In Situ Oxidation Report dated November 14, 2014, for the former Sangamo Weston, Inc., OU-1 (Plant Site), Pickens, South Carolina, was prepared under my responsible charge.

_____

Dean Williamson, P.E.
South Carolina Professional Engineer No. 21428
CH2M HILL, Inc.

November 21, 2014

_____

Date

Figures

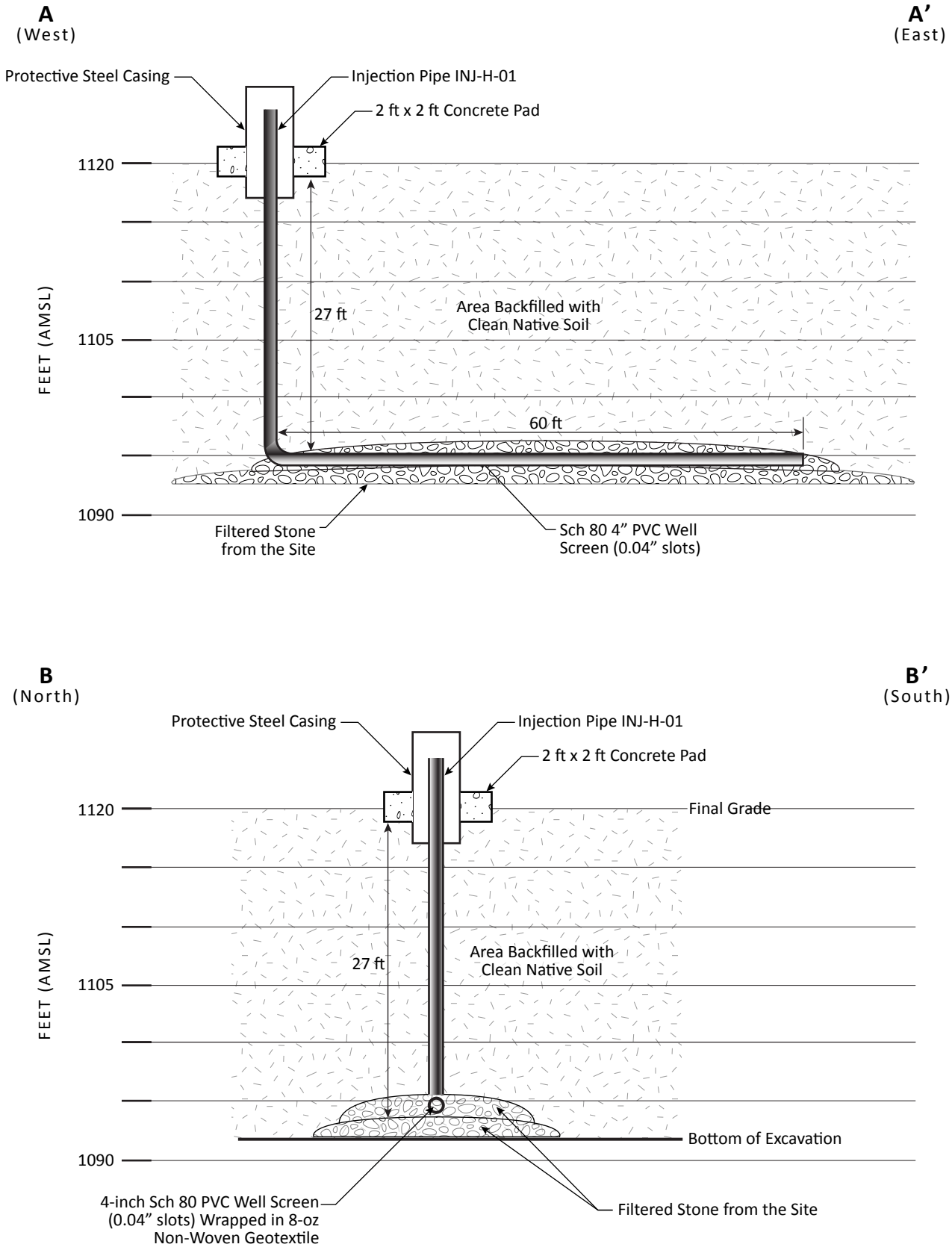
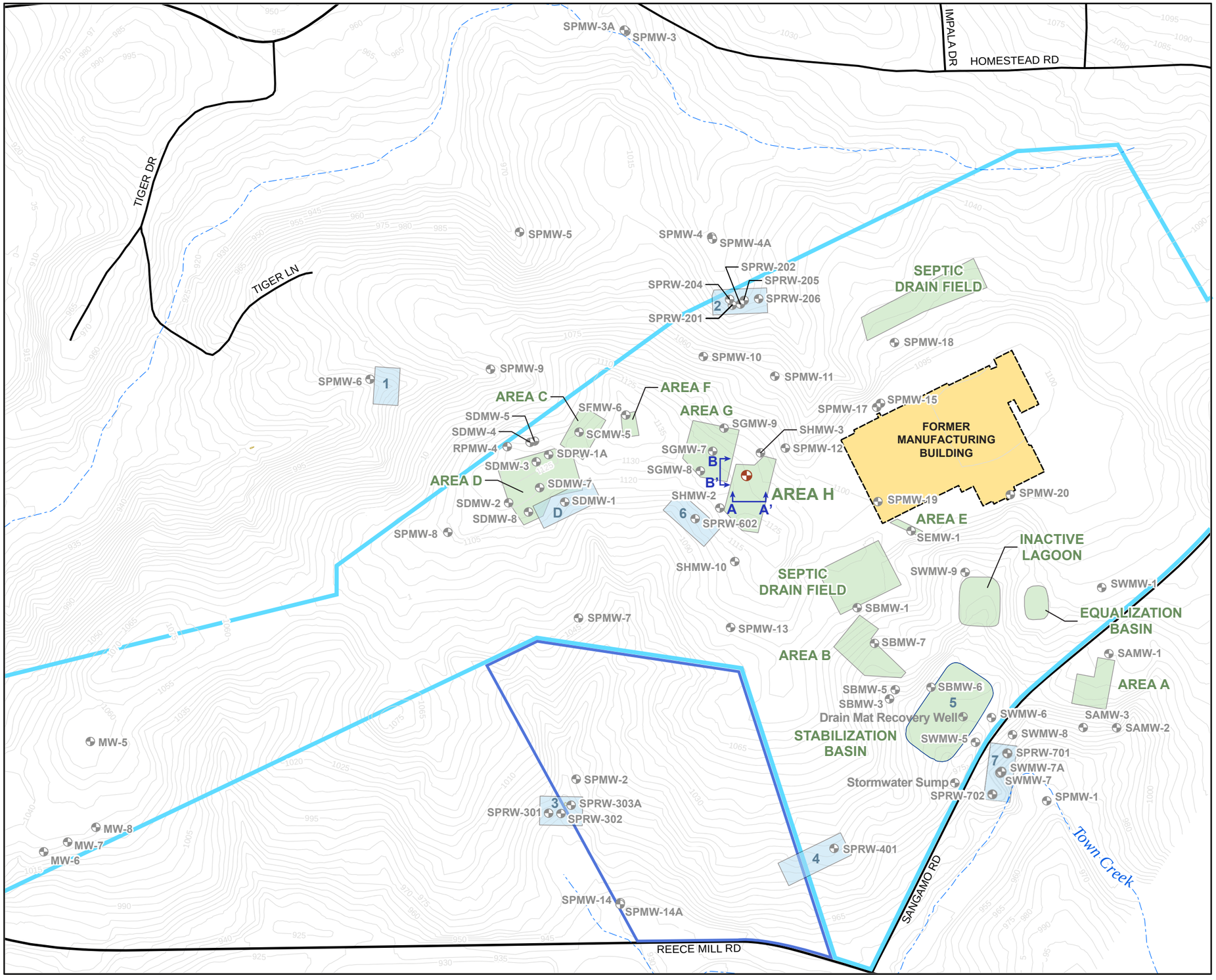
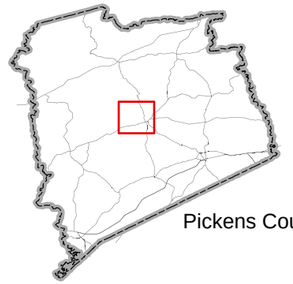


FIGURE 1
Cross-Sections A-A' and B-B'
Area H Injection Well Construction Details
Sangamo Weston Site, Pickens, South Carolina



VICINITY MAP



LEGEND

- Monitoring Well
- Area H Injection Well
- 5' Topographic Contour
- River or Creek
- Highway or Local Road
- 2 Groundwater Recovery Area and Number
- RI Investigation Area
- Former Manufacturing Building Footprint
- Moore Property Boundary
- Schlumberger Property Boundary

Source Data:

1. River and Creeks: National Hydrography Dataset (NHD), USGS. 1999
2. 5' Topographic Contour: Created using SangamoPlantTIN, Schulmberger

N

0 200 400
Feet

FIGURE 2
Plant Site Map
Area H Injection Well
Sangamo Weston Site, Pickens, South Carolina

CH2MHILL.

RDD \\BALDUR\PROJ\SANGAMO_465248\MAPFILES\2013\SSCR\FIG1-1_SITE_MAP_SSCR.MXD MSCHROCK 7/5/2013 2:38:48 AM ES062613032124KNV F2_PlantSiteMap_AreaH_10/7/14

Attachment 1
Field Activity Log

Project: 486854

Task: OU.PL.IN

Date: 11/02-06/14

11/2/2014		Gather tools and supplies at the house and load truck for injection event.
11/3/2014	7:00	Leave Woodstock, GA for Pickens, SC.
	10:30	Arrive at Sangamo site. Meet with Jacob for H&S. Sign in at office trailer and go
		over HSP. Print copies of the MSDS sheet for the site and Fire Department.
		Inspect the site, materials, and equipment received at the Plant. Jacob already
		set up the secondary containment. Drums of sodium permnaganate were
		delivered at the injection site, adjacent to the well head. Other fittings and hose
		were stored in the surge tank building. Materials were gathered and taken to
		the injection site. Water puddles were drained from the secondary containment.
	12:00	Go to Anderson to pick up water truck. PO already set up with United Rentals by
		Gale Schafer. Jacob provided CDL license to UR and was approved to drive. Jacob
		drove the water truck back to the site. JB went to the Fire Department to speak
		with the attendants about injection event and how to get water. Met with water
		department and acquired meter for hydrant.
	16:00	Back on site. Go through parts and set up for first injection event on 11/04. No
		hydrant hose provided by UR or the City of Pickens. Had to order hydrant hose
		from Dixie Rubber.
	17:00	Leave site. Go by Home Depot to pick up cleaning/spill response supplies.
11/4/2014	7:00	At Dixie Rubber to pick up hydrant hose and fittings to connect from the hydrant
		meter to the fill port of the water truck. Stop by HD to pick up hay bales (prior HD
		did not have bales).
	9:00	On site. Finish setting up injection equipment. Built up secondary containment
		with hay bales.
	10:00	Leave site to fill up water truck at hydrant near fire station. Fill out forms for the
		week so the City can bill CH2M HILL for water use. Fill truck with approximately
		1,700 gallons of water. Meter reading 1: 134,600. Meter reading 2: 136,312.
	11:45	Back on site. Gauge monitoring wells. SHMW-2: 62.57
		SHMW-3: 51.29 SGMW-7: 54.74 SGMW-8: 54.52
		Make final connections and test equipment.
	12:30	Begin first injection of sodium permanganate. Meter reading: 18,511 gal.
		System running approximately 20 gpm. Slowly feeding sodium permanganate
		into injection stream via induction nozzle. Water and sodium permanganate
		then blend inside pump and are discharged to the well.
	14:00	First injection complete. Left site to pick up a second load of water.
	15:30	Back on site with another 1,700 gallons of water. Meter reading: 20,275 gal.
		Begin second injection of sodium permanganate. System running approximatley
		19 gpm. Slowly feeding sodium permanganate into system via induction nozzle.

Project: 486854

Task: OU.PL.IN

Date: 11/02-06/14

11/4/2014	17:30	Finish second injection event. Meter reading: 21,924 gal.
		Gauge monitoring wells: SHMW-2: 62.57 SHMW-3: 51.24
		SGMW-7: 54.76 SGMW-8: 54.55
		Disconnect equipment and hoses and pack up the site.
	18:00	Leaving site. Stop by HD for a few house keeping items. Approximately 70 gal.
		of sodium permanganate discharged on the first day with 3,413 gallons of water.
11/5/2014	7:00	Arrive on site and head over to the fire station with Jacob. Load approximately
		1,700 gallons of water. Meter broken so we are now just writing in "1700" at
		each fill up.
	8:00	Back on site. Gauge monitoring wells: SHMW-2: 62.59
		SHMW-3: 51.31 SGMW-7: 54.76 SGMW-8: 54.55
		System running approximately 19 gpm. Slowly feeding sodium permanganate
		into injection stream via induction nozzle. Water and sodium permanganate
		then blend inside pump and are discharged to the well. Injected 20 gallons of
		sodium permanganate with apprxomimately 1,800 gallons of water.
		*After draining each drum and 5-gal jug, we rinse with water from the truck. The
		rinse is also injected into the well.
	11:15	Back on site. Left to pick up second 1,700 gallons of water. Restart system to
		slowly inject sodium permanganate. Injected 55 gallons of sodium permang.
		with the second truck of water.
	15:30	Back with third truck of water. Restart system. Running approximately 19 gpm.
		Injected 55 gallons of sodium permanganate with third truck. Rinsed all drums
		and jugs. Final meter reading after three trucks = 27,338 gal. Final injection
	16:30	Final injection ratio of 200 gallons (40% sodium permang.) to 8,827 gallons of
		water. Leave site to pick up the last truck of water.
	15:15	Back on site. Restart system. Running approximately 15 gpm to conduct a clean-
		water (1,700 gal.) flush of the sytem and piping. Also to flush sodium permang.
		solution from around the well to the outlying area. SHMW-2:
	16:45	SHMW-3: SGMW-7: SHMW-2: SGMW-8: SHMW-3: 51.27
		SGMW-7: 54.74 SGMW-8: 54.53
	17:00	Leave site.
11/6/2014	7:30	Arrive on site. Gauge monitoring wells: SHMW-2: 62.56
		SHMW-3: 51.18 SGMW-7: 54.74 SGMW-8: 54.51
		Disconnect all hoses and clean up. Any sodium permanganate spills were
		cleaned up with absorbent and sealed in a 5-gal bucket. Jacob Patterson has
		the bucket labeled and stored in the surge tank building with meterials that
		need to go off site for disposal.

Project: 486854

Task: OU.PL.IN

Date: 11/02-06/14

11/6/2014		Hay bales were left under the trees near the injection well. They may be reused
		in the future. The plastic sheeting was put in the roll-off dumpster once cleaned.
		The 55-gal drums were rinsed with clean water and pumped out during the
		injection event. The caps were replaced and the drum placed in the drum
		staging area on the concrete pad. The jerry can pails were neutralized with
		hydrogen peroxide and rinsed at the treatment plant. All stickers were removed
		and the pails were put in the roll-off dumpster.
		The water truck was returned to United Rentals at 9:20.
	12:00	Left site. The generator was returned to Hertz at 15:40.
11/7/2014		The pickup truck was returned at 13:36.

Attachment 2
Photograph Log

ATTACHMENT 2

Photograph Log—Sangamo Area H Injection

Subject/Description: Former Sangamo Plant Site (Operable Unit 1), Area H, Pickens, South Carolina

Photograph 1: Sodium permanganate and transfer pump operations area with secondary containment.

Photograph 2: Water truck.

Photograph 3: Injection wellhead with vent.

Appendix E
Technical Memorandum: ISCO Injection Report, Former Sangamo Weston, Inc., Operable Unit 1 (Breazeale), Pickens, South Carolina

In Situ Chemical Oxidation Injection Report Former Sangamo Weston, Inc., Operable Unit 1 (Breazeale), Pickens, South Carolina

PREPARED FOR:	Vic Cocianni/Schlumberger Technology Corporation Greg Cassidy/SCDHEC Chuck Williams/SCDHEC Chris Wargo/SCDHEC Craig Zeller/U.S. Environmental Protection Agency
PREPARED BY:	CH2M HILL
DATE:	June 24, 2015
COPY TO:	CH2M HILL Project File

In an effort to facilitate the remediation of trichloroethene (TCE) and tetrachloroethene (PCE) in groundwater at the Breazeale Site, in situ chemical oxidation (ISCO) injections with sodium permanganate were executed via direct-push technology (DPT). This technical memorandum summarizes the ISCO injection activities that occurred between December 8 and 23, 2014, at the site. Figure 1 shows ISCO injection locations, and nearby monitoring well locations within the Breazeale site. The injection activities were completed in accordance with the underground injection control permit application submitted to the South Carolina Department of Health and Environmental Control (SCDHEC) on December 3, 2014, and as approved by SCDHEC (Permit No. SCHE03020152M).

Chemical Oxidant Injection Activities

On December 4, 2014, 1,100 gallons of 40 percent sodium permanganate (4,350 pounds of 100 percent $NaMnO_4$) were delivered in drums to the Sangamo Weston Operable Unit (OU) 1 Breazeale site along with a secondary containment pad and fractionation (frac) tank to hold clean, non-potable water. Personnel from CH2M HILL and AE Drilling mobilized to the site on the following Monday, December 8, with injection equipment and a water truck.

Prior to initiating injections, the upgradient extent of TCE and PCE contamination in the Eastern and Western groundwater plume was confirmed using a DPT screen sampler and a portable gas chromatography unit. DPT groundwater samples were collected from three locations (BRTP-19, BRTP-20, and BRTP-21) (**Figure 1**) and analyzed on a Defiant Technologies FROG 4000 portable gas chromatography unit. Results and depths from groundwater samples are shown in **Table 1**. Results at the Eastern plume (BRTP-19 and BRTP-20) were zero or non-detect, so proposed injection locations in this area did not change. Samples at the Western plume (BRTP-21) had PCE detections at both depth intervals, ranging from 70 to 90 µg/L. Because of the PCE detections, the most northern row of injection locations was shifted upgradient to coincide with BRTP-21.

Non-potable water from the Pickens County Fire Department was delivered to the Breazeale Site using a 1,800-gallon water truck. Over the course of the injections, 33,000 gallons of water were transported to the site and stored in the frac tank before being injected. A DPT drill rig was used to advance injection heads at three separate locations so injections could take place simultaneously. The DPT injection set up consisted of a multi-port injection head attached to 2.25-inch-diameter DPT steel drill rods. The drill rods were driven down to a specific target injection depth, and then pulled up 6 to 12 inches to open the injection head. The injectate solution was formed by pumping the non-potable water from the frac tank with the permanganate injectate in a 500-gallon poly tote and mixing the tote contents by recirculating the solution through the 2-inch-diameter injection hoses. The hoses were attached to the injection manifold by male to female couplings with attached flow gauges and flowmeters to indicate total volume of solution injected to the injection heads.

During the injections, the potential for mounding or sodium permanganate intrusion was periodically monitored in BRMW-02, BRMW-02A, and BRMW-11 while injecting in the Eastern plume, and BRMW-04 and BRMW-04A while injecting in the Western plume. No mounding or permanganate were noticed in the monitoring wells. Once the sodium permanganate containers were emptied, they were rinsed with clean, non-potable water from the frac tank, and the rinsate was injected into the Western plume. All groundwater sample locations and injection locations were abandoned with neat cement in accordance with SCDHEC Well Standards R.61-71.

Eastern Plume ISCO Injections

ISCO injections of 1.2 percent sodium permanganate solution in the Eastern plume began on December 9 and concluded on December 18, 2014. The Eastern plume included injection locations BRIN-1, BRIN-2, BRIN-3, BRIN-4, BRIN-5, and BRIN-6. Initial flow rates ranged from 5 to 13 gallons per minute (gpm).

Table 2 describes the target vertical injection interval for each location, as well as the target mass of permanganate and injectate volume for each interval and the actual permanganate mass and injectate volume achieved.

While injecting into BRIN-1, BRIN-3, and BRIN-5, a small amount of daylighting of injectate occurred. After the initial daylighting was observed, injection flow rates were reduced and maintained at a range of 2 to 3.5 gpm for the duration of the injections. Injection pressure was also reduced. Because the initial daylighting created some preferential migration pathways, a minor degree of daylighting occurred intermittently during subsequent injection at BRIN-1, BRIN-3, and BRIN-5, and later at BRIN-4 and BRIN-6, despite lower flow rates, and reduced injection pressure. The total volume of injectate that daylighted was less than 10 gallons. Soil contacted by permanganate was excavated by hand, neutralized with a 1:1:1 solution of water, vinegar, and hydrogen peroxide which was mixed and distributed evenly over the ground surface with a garden sprayer. The soil was then deposited back to its original location, and a visual test was used to confirm that all of the injectate solution was neutralized. All daylighting that occurred was documented in the field book and reported to the project waste management and environmental managers. Hay was spread over impacted areas to prevent erosion and facilitate revegetation.

To further minimize daylighting potential, the following step-out locations were drilled to compensate for daylighting issues (**Table 2**):

- BRIN-1 was stepped out to BRIN-1A
- BRIN-3 was stepped out to BRIN-3A
- BRIN-4 was stepped out to BRIN-4A
- BRIN-5 was stepped out to BRIN-5A and BRIN-5B
- BRIN-6 was stepped out to BRIN-6A and BRIN-6B

The use of these additional step-out borings effectively eliminated further daylighting problems in the Eastern area.

Western Plume ISCO Injections

ISCO injections of 2.4 and 3.0 percent sodium permanganate solution in the Western plume began on December 16 and concluded on December 22. The Western plume included injection locations BRIN-7, BRIN-8, BRIN-9, BRIN-10, BRIN-11, and BRIN-12 (Figure 1). Because of greater depth of the injection intervals in the Western plume, injection rates could be slightly increased, and ranged between 2.5 and 6 gpm.

To make up for some intervals that did not take the target volume of sodium permanganate, additional injectate was injected at other intervals or injection locations (**Table 2**).

Table 2 describes the target vertical injection interval for each location, as well as the target mass of permanganate and injectate volume for each interval and the actual permanganate mass and injectate volume achieved.

A minor degree of daylighting occurred at some injection points in the Western area (although to a lesser degree than in the Eastern plume). The total volume of daylighting injectate was less than 2 gallons. Most of the

daylighting that was observed occurred around the injection rods. After observing this, the rods were sealed at land surface with bentonite or Portland cement, which reduced daylighting. Soil that contacted permanganate was excavated by hand, neutralized with a 1:1:1 solution of water, vinegar, and hydrogen peroxide, and deposited back to its original location as described in the previous section. All daylighting that occurred was documented in the field book and reported to the waste management and environmental managers.

Summary

ISCO injections were successfully completed during December 2014 at the Breazeale site. A total of approximately 26,223 gallons of sodium permanganate injectate, containing approximately 4,223 pounds of sodium permanganate, were delivered into the two target treatment areas. Photographs are provided in **Attachment 1**. The upgradient extent of each target treatment area was successfully confirmed prior to initiating the injections. No mounding or impacts to nearby monitoring wells were observed. A small amount of daylighting of injectate occurred at some locations. Injection methods were modified to eliminate daylighting, and the effects of the daylighting were successfully mitigated. The delivery of the permanganate solution is expected to significantly reduce the longevity of the remaining PCE groundwater contamination at the site and to accelerate site closure.

PROFESSIONAL CERTIFICATION

I, Dean Williamson, South Carolina Professional Engineer No. 21428, certify that I currently hold an active license in the State of South Carolina and that the enclosed in situ oxidation report dated June 24, 2015, for the former Sangamo Weston, Inc., OU1 (Plant Site), Pickens, South Carolina, was prepared under my responsible charge.

_____

Dean Williamson, P.E.
South Carolina Professional Engineer No. 21428
CH2M HILL, Inc.

June 24, 2015
Date

Tables

TABLE 1
ISCO Injection Ground Water Sample Log and FROG Analyzer Results
2014 In Situ Chemical Oxidation Injection Report
Former Sangamo Weston, Inc., Operable Unit 1 (Breazeale)

Sample Location	Plume	Sample Interval (feet bgs)	TCE (µg/L)	PCE (µg/L)
BRTP-19	East	24-27	ND	0.00
BRTP-20	East	24-27	0.00	0.00
BRTP-21	West	32-35	1.56	71.57
BRTP-21	West	44-47	1.46	91.89

Notes
µg/L - micrograms per liter
TCE - trichloroethylene
PCE - tetrachloroethylene
feet bgs - feet below ground surface

TABLE 2
ISCO Injection Tracking Log
2014 In Situ Chemical Oxidation Injection Report
Former Sangamo Weston, Inc., Operable Unit 1 (Breazeale)

Injection Point	Plume	Interval (feet bgs)	Proposed 3% Sodium Permanganate Solution (gals)	Injected 1.2% Sodium Permanganate Solution (gals)	Injected 2.4% Sodium Permanganate Solution (gals)	Injected 3.0% Sodium Permanganate Solution (gals)	Proposed Sodium Permanganate (lbs)	Injected Sodium Permanganate (lbs)
Eastern Plume								
BRIN-1	East	27-24	334	0.00	-	-	83.6	0.00
		24-21	334	0.00	-	-	83.6	0.00
		21-18	334	0.00	-	-	83.6	0.00
		18-15	334	192.00	-	-	83.6	19.22
BRIN-1A	East	27-24	-	750.00	-	-	-	75.06
		24-21	-	781.00	-	-	-	78.16
		21-18	-	757.00	-	-	-	75.76
		18-15	-	558.00	-	-	-	55.84
BRIN-2	East	27-24	334	-	375.00	-	83.6	75.06
		24-21	334	-	600.00	-	83.6	120.10
		21-18	334	750.00	-	-	83.6	75.06
		18-15	334	750.00	-	-	83.6	75.06
BRIN-3	East	27-24	334	35.00	-	-	83.6	3.50
		24-21	334	777.00	-	-	83.6	77.76
		21-18	334	0.00	-	-	83.6	0.00
		18-15	334	216.00	-	-	83.6	21.62
BRIN-3A	East	27-24	-	715.00	-	-	-	71.56
		24-21	-	0.00	-	-	-	0.00
		21-18	-	750.00	-	-	-	75.06
		18-15	-	534.00	-	-	-	53.44
BRIN-4	East	21-18	334	0.00	-	-	83.6	0.00
		18-15	334	433.00	-	-	83.6	43.33
BRIN-4A	East	21-18	-	750.00	-	-	-	75.06
		18-15	-	317.00	-	-	-	31.73
BRIN-5	East	27-24	334	787.00	-	-	83.6	78.76
		24-21	334	55.00	-	-	83.6	5.50
		21-18	334	0.00	-	-	83.6	0.00
		18-15	334	73.00	-	-	83.6	7.31
BRIN-5A	East	27-24	-	0.00	-	-	-	0.00
		24-21	-	0.00	-	-	-	0.00
		21-18	-	0.00	-	-	-	0.00
		18-15	-	478.00	-	-	-	47.84
BRIN-5B	East	27-24	-	0.00	-	-	-	0.00
		24-21	-	699.00	-	-	-	69.96
		21-18	-	750.00	-	-	-	75.06
		18-15	-	200.32	-	-	-	20.05

TABLE 2
ISCO Injection Tracking Log
2014 In Situ Chemical Oxidation Injection Report
Former Sangamo Weston, Inc., Operable Unit 1 (Breazeale)

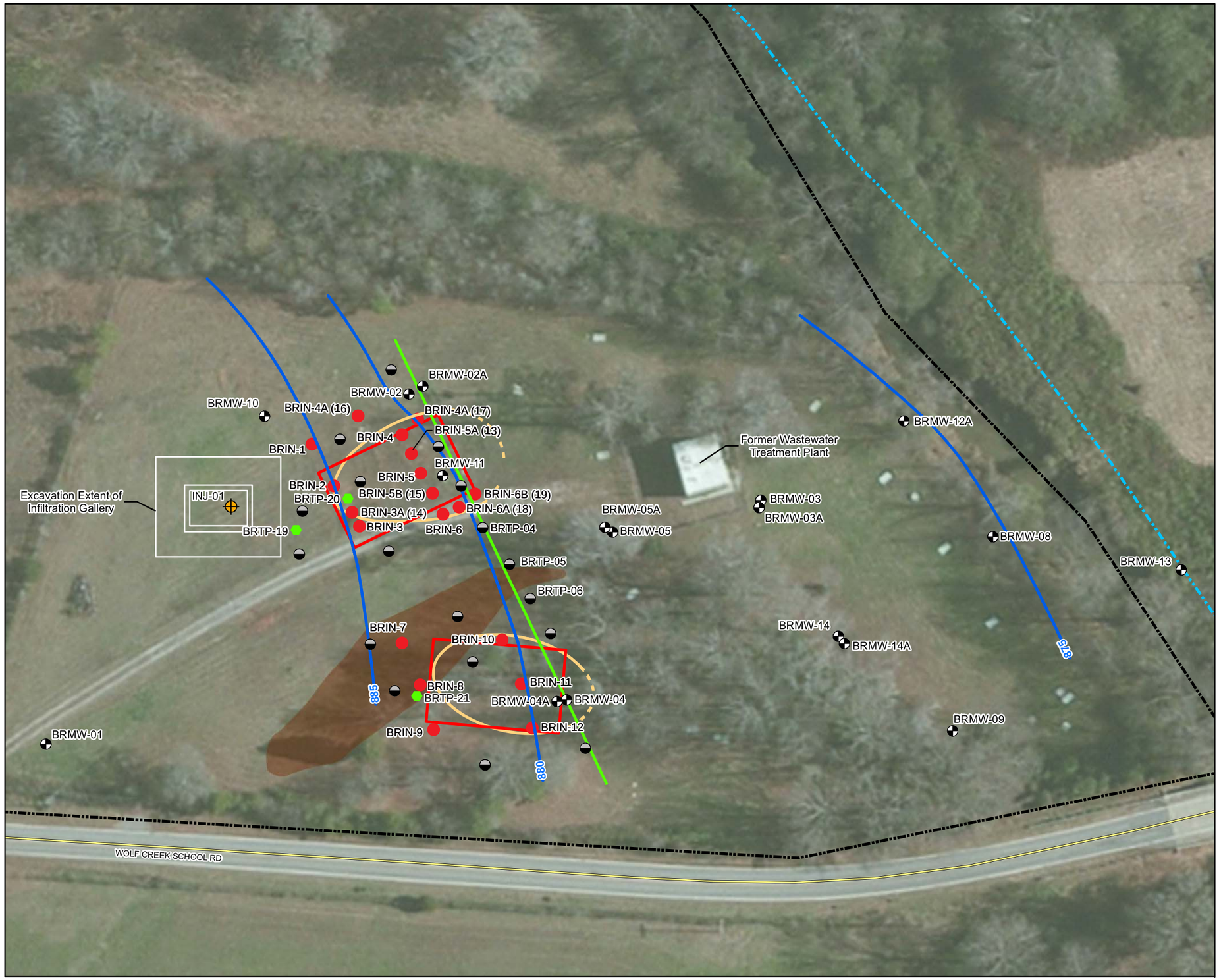
Injection Point	Plume	Interval (feet bgs)	Proposed 3% Sodium Permanganate Solution (gals)	Injected 1.2% Sodium Permanganate Solution (gals)	Injected 2.4% Sodium Permanganate Solution (gals)	Injected 3.0% Sodium Permanganate Solution (gals)	Proposed Sodium Permanganate (lbs)	Injected Sodium Permanganate (lbs)
BRIN-6	East	36-33	-	0.00	-	-		0.00
		33-30	-	0.00	-	-		0.00
		30-27	-	0.00	-	-		0.00
		27-24	334	0.00	-	-	83.6	0.00
		24-21	334	21.87	-	-	83.6	2.19
		21-18	334	0.00	-	-	83.6	0.00
		18-15	334	263.00	-	-	83.6	26.32
BRIN-6A	East	36-33	-	0.00	-	-	-	0.00
		33-30	-	-	20.00	-	-	4.00
		30-27	-	0.00	-	-	-	0.00
		27-24	-	0.00	-	-	-	0.00
		24-21	-	40.00	-	-	-	4.00
		21-18	-	750.00	-	-	-	75.06
		18-15	-	750.00	-	-	-	75.06
BRIN-6B	East	36-33	-	-	176.00	-	-	35.23
		33-30	-	-	257.68	-	-	51.58
		30-27	-	0.00	-	-	-	0.00
		27-24	-	0.00	-	-	-	0.00
		24-21	-	0.00	-	-	-	0.00
		21-18	-	0.00	-	-	-	0.00
		18-15	-	0.00	-	-	-	0.00
Western Plume								
BRIN-7	West	47-44	334	-	-	300.00	83.6	75.06
		44-41	334	-	-	300.00	83.6	75.06
		41-38	334	-	378.00	-	83.6	75.66
		38-35	334	-	416.00	-	83.6	83.27
		35-32	334	-	375.00	-	83.6	75.06
		32-29	334	-	460.00	-	83.6	92.07
		29-26	334	-	375.00	-	83.6	75.06
BRIN-8	West	47-44	334	-	-	188.53	83.6	47.17
		44-41	334	-	-	33.95	83.6	8.49
		41-38	334	-	-	0.00	83.6	0.00
		38-35	334	-	-	0.00	83.6	0.00
		35-32	334	-	-	91.27	83.6	22.84
		32-29	334	-	-	394.24	83.6	98.64
		29-26	334	-	-	431.52	83.6	107.97
BRIN-9	West	47-44	-	-	-	0.00	-	0.00
		44-41	-	-	-	475.44	-	118.96
		41-38	-	-	-	470.85	-	117.81
		38-35	334	-	-	339.72	83.6	85.00
		35-32	334	-	-	342.33	83.6	85.65
		32-29	334	-	-	483.00	83.6	120.85
		29-26	334	-	-	300.00	83.6	75.06

TABLE 2
ISCO Injection Tracking Log
2014 In Situ Chemical Oxidation Injection Report
Former Sangamo Weston, Inc., Operable Unit 1 (Breazeale)

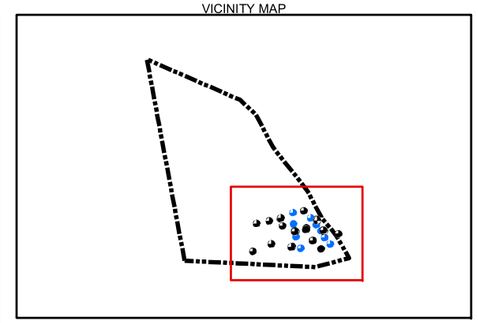
Injection Point	Plume	Interval (feet bgs)	Proposed 3% Sodium Permanganate Solution (gals)	Injected 1.2% Sodium Permanganate Solution (gals)	Injected 2.4% Sodium Permanganate Solution (gals)	Injected 3.0% Sodium Permanganate Solution (gals)	Proposed Sodium Permanganate (lbs)	Injected Sodium Permanganate (lbs)
BRIN-10	West	38-35	334	-	375.00	-	83.6	75.06
		35-32	334	-	375.00	-	83.6	75.06
		32-29	334	-	375.00	-	83.6	75.06
		29-26	334	-	375.00	-	83.6	75.06
BRIN-11	West	38-35	334	-	-	647.91	83.6	162.11
		35-32	334	-	-	312.04	83.6	78.07
		32-29	334	-	-	396.00	83.6	99.08
		29-26	334	-	-	359.90	83.6	90.05
BRIN-12	West	38-35	334	-	-	419.00	83.6	104.83
		35-32	334	-	-	300.00	83.6	75.06
		32-29	334	-	-	390.00	83.6	97.58
		29-26	334	-	-	382.00	83.6	95.58
Totals			**17,368.00**	**13,932.19**	**4,932.68**	**7,357.70**	**4,345**	**4,222.56**

Notes
- denotes not applicable
feet bgs - feet below ground surface
gals - gallons
lbs - pounds

Figure



VICINITY MAP



LEGEND

- Direct Push Sample Location (September - October 2014)
- Performance Monitoring Wells
- Injection Well
- Injection Point
- Direct Push Sample Locations (December 2014)
- Wolf Creek
- Highway or Local Road
- Transect
- Groundwater Elevation Contour (dashered where inferred)
- PCE (40 ug/L) and TCE (150 ug/L) Isoconcentration Contour – Interim Clean-up Levels Protective of Wolf Creek (dashed where estimated)
- Approximate Footprint of Former Soil Excavation Area
- Focused ISCO Treatment Area
- Legal Boundary

N

0 15 30 60
Feet

FIGURE 1
Injection Locations
December 2014
OU1, Sangamo-Weston Breazeale Site
Pickens, South Carolina

CH2MHILL

Attachment 1
Photograph Log

ATTACHMENT 1

Breazeale Photolog, 16 December 2014

Photo 1: Direct-push drilling rig (left), Injection trailer (center, white), and fractionation tank (center, green) looking north.

Photo 2: Direct-push drilling rig (left), Injection trailer (center, white), and fractionation tank (center, green) looking north.

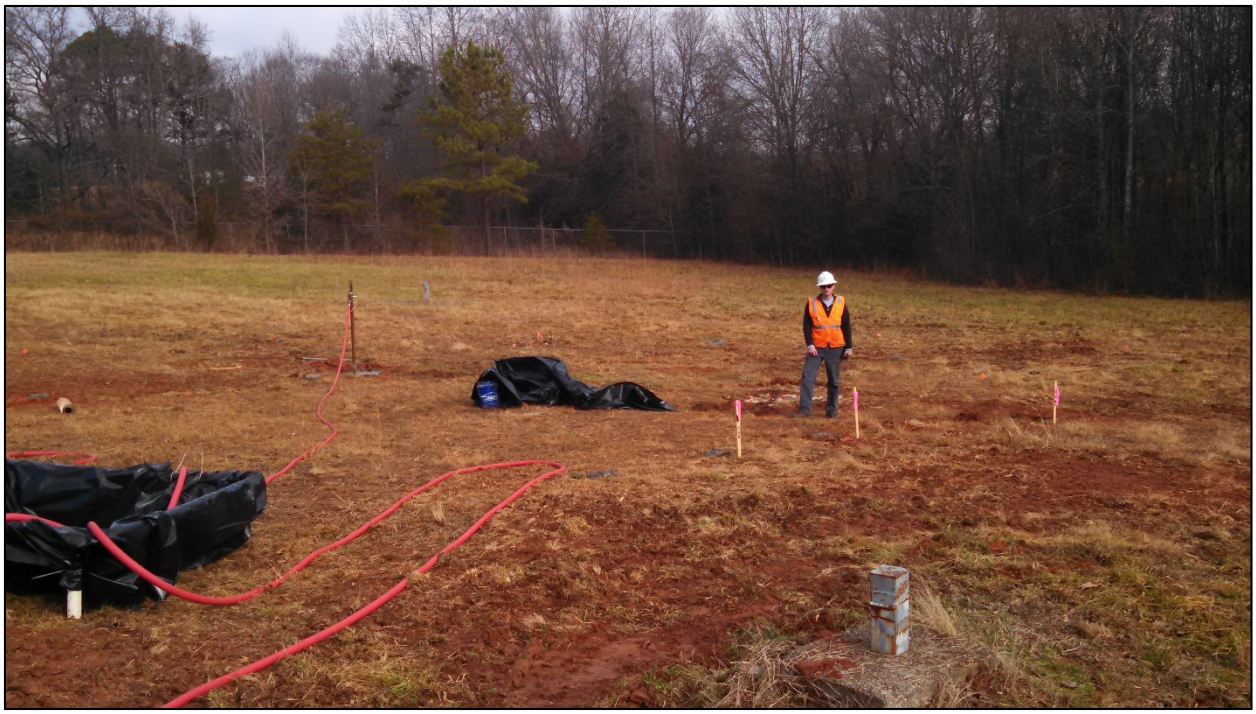


Photo 3: Injection locations looking northeast at the east plume.

Appendix F
Technical Memorandum: OU 1 Well Rehabilitation Report—Sangamo Weston, Inc./ Twelvemile Creek/Lake Hartwell PCB Contamination Superfund Site, Pickens, South Carolina

Operable Unit 1 Well Rehabilitation Report—Sangamo Weston, Inc./Twelvemile Creek/Lake Hartwell Polychlorinated Biphenyl Contamination Superfund Site, Pickens, South Carolina

PREPARED FOR: Virgilio Cocianni/Schlumberger Technology Corporation

COPY TO: Craig Zeller/U.S. Environmental Protection Agency
Greg Cassidy/South Carolina Department of Health and Environmental Control
CH2M HILL Project File

DATE: June 24, 2015

This report summarizes monitoring well rehabilitation measures taken at Operable Unit 1 (OU1) of the Sangamo Weston, Inc./Twelvemile Creek/Lake Hartwell Polychlorinated Biphenyl (PCB) Contamination Superfund Site in Pickens, South Carolina, on March 12 and 13, 2015.

CH2M HILL contracted A & E Drilling Services (AE) to rehabilitate monitoring wells SDMW-3, SDMW-5, SDMW-8, SPRW-301, and SWMW-7A and to conduct downhole video inspections before and after rehabilitation. Still images of downhole video recorded before and after rehabilitation are presented in Table 1.

Monitoring Well SDMW-3

Video inspection showed significant fouling along the well screen at monitoring well SDMW-3. No obstructions were detected in the well; however, the well casing is misshapen with a deformation at approximately 65 feet below the top of casing (btoc). The pump used for redevelopment was pushed beyond the deformation with force; however, this well casing flaw may prevent HydraSleeve samplers from reaching groundwater. To remove fouling, AE brushed the screen with a 2-inch-diameter by 8-inch-long plastic bristle brush for approximately 45 minutes. AE surged the well and pumped approximately 25 gallons of groundwater using an electric variable-speed pump, with a final turbidity reading of 4.6 nephelometric turbidity units (NTUs).

Post-rehabilitation video shows a significantly cleaner well screen, the deformation remaining at 65 feet btoc, and minor silting remaining at the bottom of the well (approximately 81 feet btoc).

Monitoring Well SDMW-5

At monitoring well SDMW-5, video inspection revealed significant silting starting at 73 feet btoc, which is above the well's screened interval of 82 to 97 feet bgs. The well was dry and could be only partially rehabilitated using the airlift process. However, even if the well was flooded, the debris that was extracted consisted of coarse materials and chunks of partially weathered rock that would not be able to be airlifted out of the well. The presence of the coarser materials (larger than the screen slot size) indicates that the well casing has possibly separated at this depth. This well may only be able to be repaired at significant cost.

Well SDMW-5 is a bedrock monitoring well. It is located immediately adjacent to well SDMW-4, which is screened 10 feet higher in the transition zone. Since well SDMW-5 was installed in 2013, contaminants of concern for the site have not been detected in well SDMW-5. Due to the significant cost to repair SDMW-5 and its limited value as a monitoring well, we recommend plugging and abandoning it.

Monitoring Well SDMW-8

Video inspection at monitoring well SDMW-8 showed moderate fouling along the well screen from 60 to 68 feet btoc and no obstructions. To remove fouling, AE brushed the screen with a 2-inch-diameter by

8-inch-long plastic bristle brush for approximately 30 minutes. AE surged the well and pumped approximately 10 gallons of groundwater with a final turbidity reading of 65 NTUs. AE pumped the well dry several times due to a low water column height (less than 8 feet).

Post-rehabilitation video shows a significantly cleaner well screen and minor silting remaining at the bottom of the well (approximately 70 feet btoc).

Monitoring Well SPRW-301

Video inspection at monitoring well SPRW-301 showed significant fouling from 12 to 16 feet btoc, below which the well is bored into rock, uncased, and slightly curved. No obstructions were detected; however, a 1- to 1.5-inch-diameter discarded bailer and what appears to be a piece of scrap metal or duct tape were observed at the bottom of the well (approximately 68 feet btoc).

To clean the rock boring and remove fouling, AE brushed the rock face with a 6-inch-diameter by 3-inch-long plastic bristle brush for approximately 30 minutes and pumped approximately 50 gallons of groundwater. AE returned to the well later that day and pumped another 25 gallons of groundwater. AE attempted to remove the discarded bailer with a hook, but was unsuccessful due to the curved centerline of the boring. The well did not fully recharge overnight, but AE pumped another 20 gallons of groundwater to continue redeveloping the well.

Post-rehabilitation video shows the rock boring looking significantly cleaner. The bailer is still seen at the bottom of the well, along with what appears to be a piece of scrap metal or duct tape.

Monitoring Well SWMW-7A

Video inspection showed light fouling along the screen and moderate silting at the bottom of the well. No obstructions were detected. To remove fouling and silt at the bottom of the well, AE surged the well and pumped approximately 45 gallons of groundwater with a final turbidity reading of 6.5 NTUs.

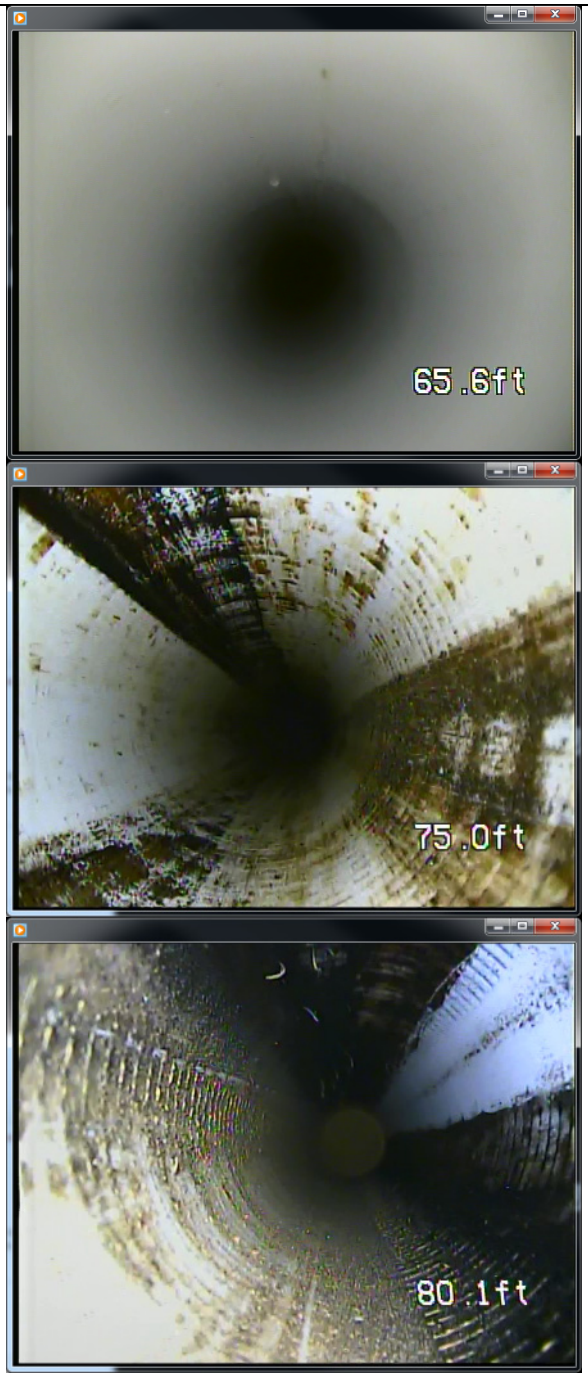
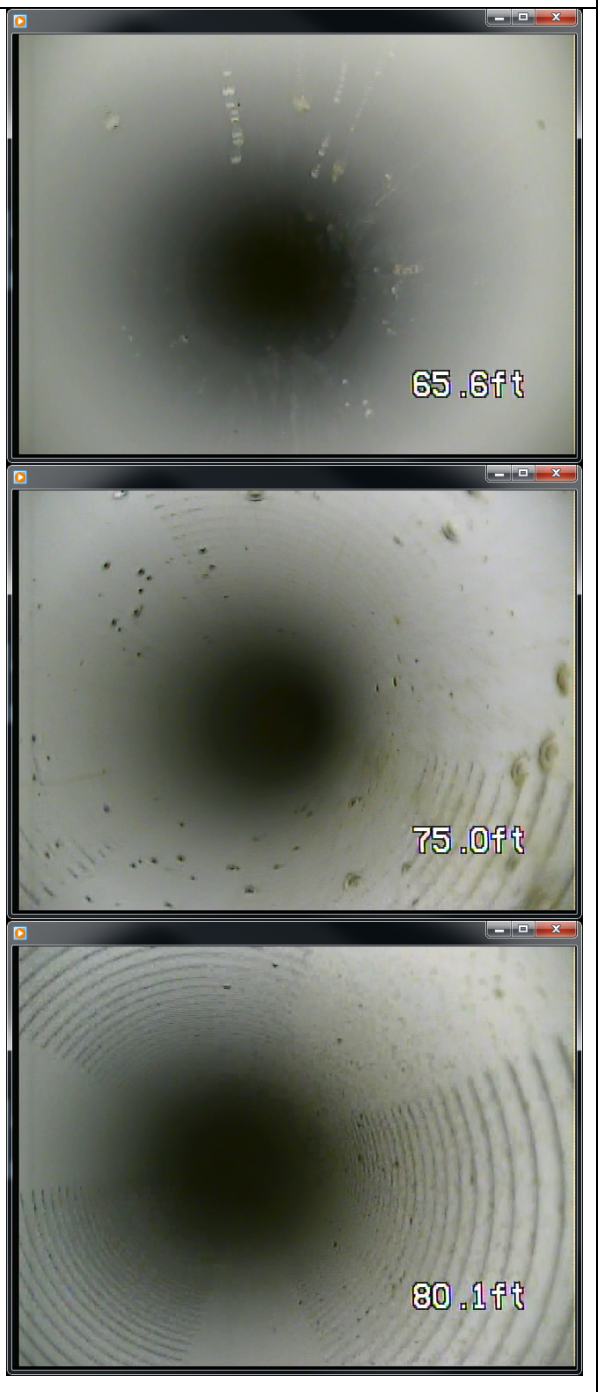
Post-rehabilitation video shows a significantly cleaner well screen and minimal sand remaining at the bottom of the well (approximately 37 feet btoc).

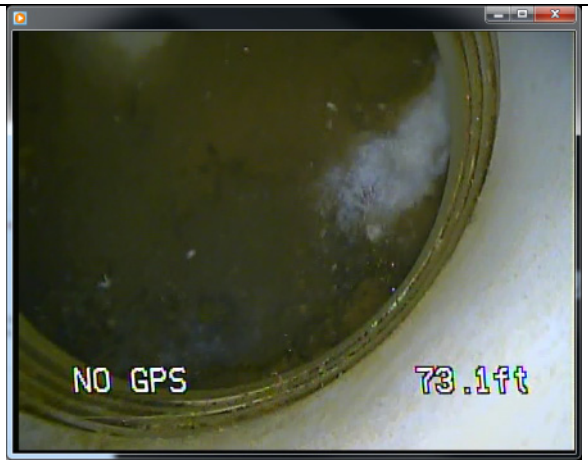
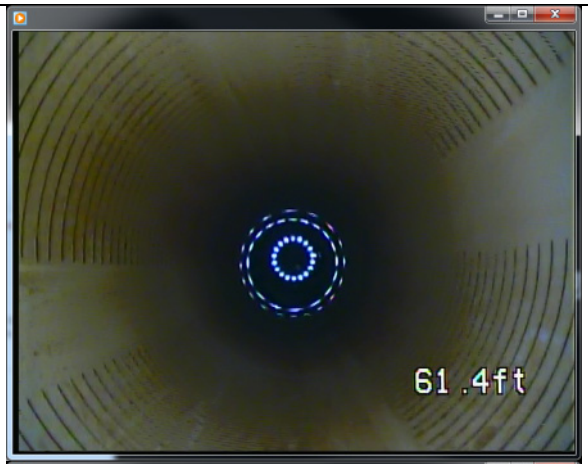
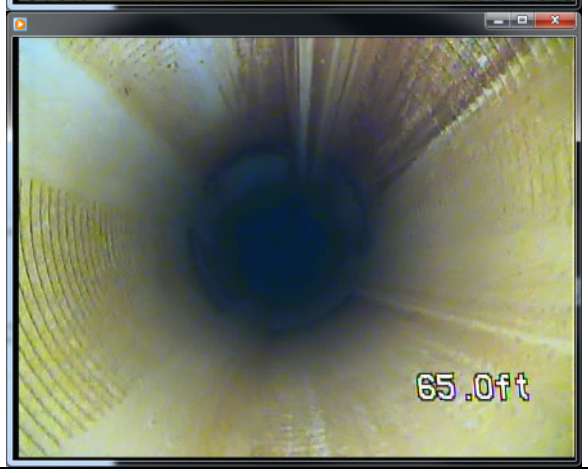
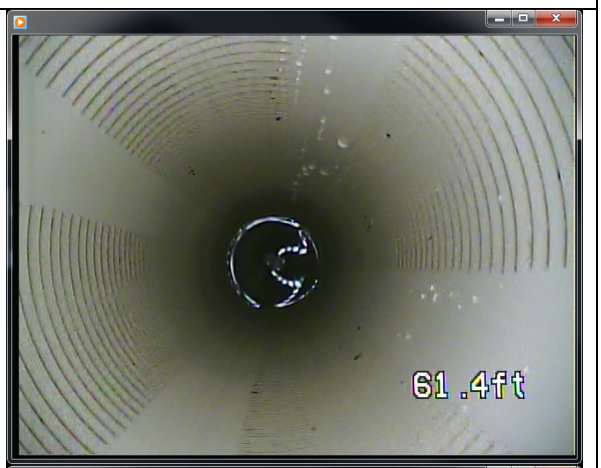
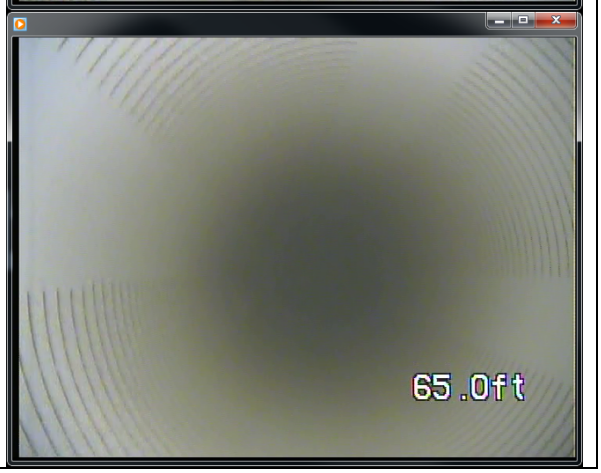
Downhole equipment was decontaminated before entering and prior to leaving the site and between well locations by flushing with potable water and then steam cleaning.

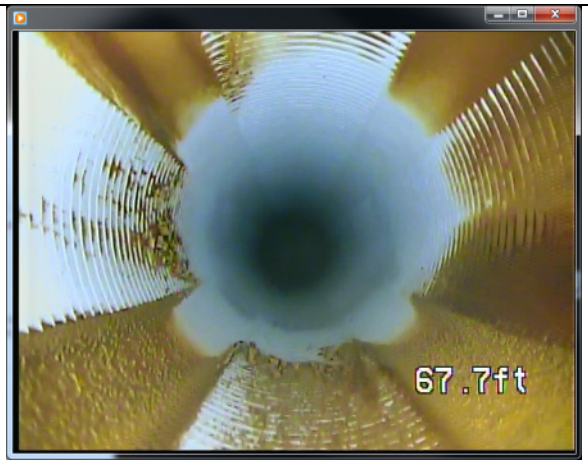
Recommendation

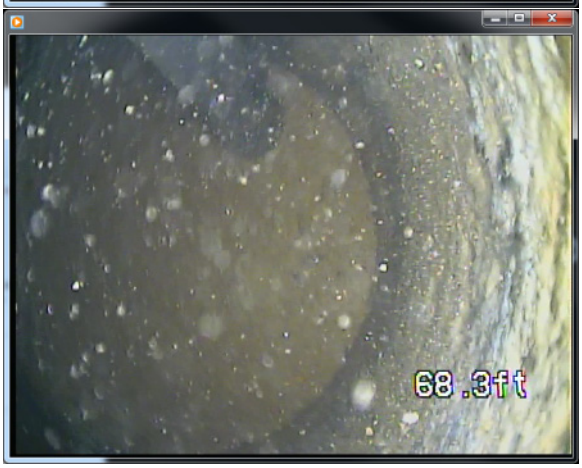
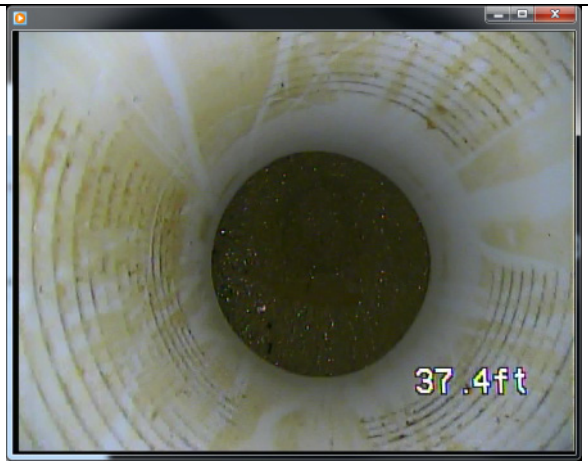
Due to the significant cost to repair SDMW-5 and its limited value as a monitoring well, we recommend plugging and abandoning it.

TABLE 1
Selected Stills from Downhole Video
Operable Unit 1 Well Rehabilitation Report
Sangamo Weston, Inc./Twelvemile Creek/Lake Hartwell Polychlorinated Biphenyl Contamination Superfund Site
Pickens, South Carolina

Well ID and Notes	Before Rehabilitation (3/11/2015)	After Rehabilitation (3/13/2015)
SDMW-3 (screened 67-77 feet bgs) Slight distortion at 65 feet btoc. Significant fouling; no obstructions noted.		

Well ID and Notes	Before Rehabilitation (3/11/2015)	After Rehabilitation (3/13/2015)
SDMW-5 (screened 82-97 feet bgs) Significant silting at 73 feet btoc. Possible casing separation at this depth. Well is dry and cannot be airlifted.		Well could not be rehabilitated.
SDMW-8 (screened 56-66 feet bgs) Moderate fouling from 60 to 68 feet btoc.	 	 

Well ID and Notes	Before Rehabilitation (3/11/2015)	After Rehabilitation (3/13/2015)
		
SPRW-301 (64 feet deep) Removed pump and piping. Well is slightly curved. Pitless adapter at 4.5 feet btoc. Significant fouling from 12 feet btoc down. Start of uncased borehole at 16 feet btoc.	 	

Well ID and Notes	Before Rehabilitation (3/11/2015)	After Rehabilitation (3/13/2015)
Discarded bailer (1 to 1.5-inch-diameter, > 1 foot high) standing vertically at bottom of well (68 feet btoc); could not be removed.	 	
SWMW-7A (screened 29-33 feet bgs) Light fouling. Moderate silting at bottom of well.		

Notes:

bgs = below ground surface

btoc = below top of casing