

**Groundwater Compliance Monitoring
Data Summary Report – May 2010**

318 State Avenue NE Property
Olympia, Washington

for

City of Olympia

July 16, 2010



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Suite 200
Tacoma, Washington 98402
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**Groundwater Compliance Monitoring
Data Summary Report – May 2010**

**318 State Avenue NE Property
Olympia, Washington**

File No. 0415-049-06

July 16, 2010

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INTRODUCTION

This data summary report presents the results of groundwater compliance monitoring performed by the City of Olympia (City) in May 2010 at the 318 State Avenue NE property in Olympia, Washington (Property) (Figure 1). Groundwater compliance monitoring at the Property is intended to monitor the natural attenuation of chlorinated organic solvents and associated degradation products identified as chemicals of concern (COCs) in groundwater after completion of the soil remedial action performed in September and October 2009. Remediation of soil and groundwater at the Property is being performed to support the goal of achieving a No Further Action (NFA) determination for the Property under the Washington State Department of Ecology (Ecology) Voluntary Cleanup Program (VCP).

The chlorinated solvents being monitored for natural attenuation as part of groundwater compliance monitoring include tetrachloroethene (PCE) and trichloroethene (TCE) as well as associated degradation products. Monitoring also includes measurement of water quality parameters that are indicators of the natural attenuation. Monitoring of chlorinated solvents, degradation products and natural attenuation parameters is being performed in accordance with the Groundwater Compliance Monitoring Plan (CMP) for the Property (GeoEngineers 2010).

Additionally, groundwater monitoring performed in May 2010 included analyses to assess potential impacts from the presence of an underground storage tank (UST) at the Property uncovered during the remedial action for soil. Monitoring to assess potential impacts from the UST was performed in accordance with requirements presented in an email between Iain Wingard, GeoEngineers and Eugene Radcliff, Ecology dated May 11, 2010.

Groundwater samples were collected from eight monitoring wells that included MW-3, MW-4, MW-8, MW-9, MW-13 and MW-16 through MW-18 (Figure 2) and were submitted to Test America Laboratories of Seattle, Washington, for analysis. Additionally, monitoring of groundwater gradients at the Property was completed by measuring the water levels in all monitoring wells at the site. Groundwater samples were collected from selected monitoring wells and groundwater levels were measured in all wells at the site in accordance with the CMP for the Property (GeoEngineers, 2010).

The following sections summarize the background for compliance monitoring, field sampling activities, groundwater gradients at the Property and results of groundwater sampling and analysis.

BACKGROUND

Remedial actions were performed in September and October 2009 to remove soil and fill with concentrations of volatile organic compounds (VOCs) including chlorinated solvents, metals and carcinogenic polycyclic aromatic compounds (cPAHs) that were greater than the Model Toxics Control Act (MTCA) cleanup levels (CULs). Soil samples were subsequently collected from the boundary of remedial action areas to confirm removal of soil and fill with contaminant concentrations greater than cleanup levels. The results of the soil remedial action are presented in the Remedial Action Construction Report prepared for the Property (GeoEngineers, 2010).

Compliance monitoring is being performed after completion of soil remedial actions to evaluate the concentrations and natural attenuation of chlorinated organic solvents in groundwater at the Property. The concentrations are compared to the MTCA Method A groundwater cleanup levels for unrestricted land use (ULU). The natural attenuation of chlorinated organic solvents is being monitored via quarterly monitoring that includes the following:

- Installation of two, new monitoring wells, MW-17 within Contaminated Soil Zone 1 (CSZ 1) where soil remediation was performed in September and October 2009, and MW-18 north of the CSZ 1 (Figure 2).
- Groundwater sampling at eight monitoring wells including MW-3, MW-4, MW-8, MW-9, MW-13 and MW-16 through MW-18.
- Analysis for chlorinated organic solvents and associated degradation products including PCE, TCE, 1,1-dichloroethene (1,1-DCE), cis-dichloroethene (cis-DCE), trans-dichloroethene (trans-DCE) and vinyl chloride.
- Monitoring for indicators of natural attenuation including ferrous iron, sulfate, dissolved oxygen (DO), pH, electrical conductivity and oxidation-reduction potential (ORP).
- Monitoring of groundwater gradients by measuring water levels at all existing wells at the site.

Additionally, analysis for arsenic is being performed as part of groundwater compliance monitoring to provide additional information concerning arsenic concentrations in the area.

Ecology also requested that groundwater be analyzed for analytes associated with a petroleum hydrocarbon release during the first groundwater compliance monitoring event to evaluate the potential impacts from a UST uncovered at the Property during the remedial action for soil. The request was made by Ecology during a meeting between representatives of the City and Ecology held on May 10, 2010. The sampling and analysis requirements to assess potential impacts from the UST were documented in an email from Iain Wingard, GeoEngineers to Eugene Radcliff, Ecology dated May 11, 2010.

The additional analytes to assess a potential release from the UST include the following:

- Gasoline-range petroleum hydrocarbons
- Diesel- and oil-range petroleum hydrocarbons
- cPAHs
- Benzene, toluene, ethylbenzene and xylenes (BTEX)
- 1,2-Dibromoethane (EDB)
- 1,2-Dichloroethane (EDC)
- Methyl tert-butyl ether (MTBE)
- Lead
- Polychlorinated biphenyls (PCBs)

Samples collected from six monitoring wells including MW-3, MW-8, MW-9 and MW-16 through MW-18 were analyzed for the parameters listed above to assess potential impacts from a release of petroleum hydrocarbons in accordance with the requirements specified in the May 11, 2010 email.

FIELD ACTIVITIES

Field activities performed in May 2010 were initiated by installing monitoring wells MW-17 and MW-18 (Figure 2). Monitoring wells MW-17 and MW-18 were constructed on May 17, 2010 by a licensed drilling contractor, ESN Northwest, in accordance with Washington Administrative Code (WAC) 173-160, *Minimum Standards for Construction and Maintenance of Wells*. The well screens were installed across the water table as specified in the CMP. The well logs for MW-17 and MW-18 are presented in Appendix A. The monitoring wells were developed upon completion of well installation and prior to conducting groundwater monitoring activities.

Groundwater compliance monitoring samples were collected on May 24 and 25, 2010 using low-flow/low-turbidity sampling techniques to minimize the suspension of particulates in the samples. Groundwater samples were obtained from the wells using dedicated submersible electric pumps (Whale Pump Brand) with flexible, dedicated vinyl tubing. Groundwater was pumped at approximately 0.5 liters per minute from the approximate mid-point of the screened interval to collect the samples.

Water quality parameters were measured during purging using a Horiba U-22 with a flow-through-cell. The measured water quality parameters included electrical conductivity, DO, pH, turbidity, ORP, salinity, total dissolved solids (TDS) and temperature. Groundwater samples were collected once the parameters varied by less than 10 percent on three consecutive measurements and turbidity was below 5 nephelometric turbidity unit (NTUs) for at least two consecutive readings. All field measurements were documented on the field logs.

Following well purging, the flow-through-cell was disconnected and the groundwater samples were collected in appropriate laboratory-provided and -prepared containers. The samples were placed into a cooler with ice and delivered to Test America Laboratory in Seattle, Washington for analysis following appropriate chain of custody (COC) procedures. Purge water was stored in labeled 55-gallon drums for future off-site disposal. The groundwater samples were submitted for the following analyses to provide results for the groundwater compliance monitoring analytes and the additional analytes requested by Ecology identified above:

- VOCs by Environmental Protection Agency (EPA) Method 8260;
- Total metals by EPA Method 6020;
- Sulfate by EPA Method 300.0;
- Gasoline-range petroleum hydrocarbons by NWTPH-Gx;
- Diesel- and oil-range petroleum hydrocarbons by NWTPH-Dx;
- cPAHs by EPA Method 8270 SIM;

- EDB by EPA Method 8011;
- PCBs by EPA Method 8082.

Ferrous iron was measured in the field using a Hach field test kit and the results were recorded on the field logs prior to sample collection.

GROUNDWATER GRADIENTS

The groundwater gradients at the Property were determined during the May 2010 sampling event by collecting depth to water measurements at all existing monitoring wells. The depth to water measurements were collected from all existing monitoring wells within a close time frame (i.e., within approximately 20 minutes) prior to performing any groundwater sampling. The groundwater gradients measured in May 2010 indicate a north to northeast groundwater flow direction (Figure 3) which is generally consistent with previous groundwater gradients measured at the Property.

ANALYTICAL RESULTS

The results from groundwater sample collection and analysis performed in May 2010 are summarized in the following sections. The results for the analyses specified in the CMP are presented first followed by the results for the additional analyses requested by Ecology to assess potential impacts from release of petroleum hydrocarbons from a UST uncovered during soil remedial actions.

Additionally, Table 1 summarizes the results of chemical analyses performed as part of groundwater compliance monitoring specified in the CMP. Table 2 summarizes water quality and natural attenuation parameter measurements and Table 3 summarizes the results of the additional analyses requested by Ecology. Finally, Appendix B contains the laboratory analytical reports and Appendix C contains the Data Quality Assessment Report presenting the results of data validation of the chemical analyses.

Groundwater Compliance Monitoring Analyses

Natural Attenuation Parameters

The geochemical indicators of natural attenuation as defined by Ecology (ferrous iron, sulfate, DO, electrical conductivity, pH, temperature and ORP) collected in May 2010 indicate that natural attenuation processes and the degradation of chlorinated solvents are occurring at the Property (Table 2). Currently, the indicators suggest that reductive conditions exist on the south side of the property, upgradient/crossgradient of where soil remedial actions were performed in 2009 and more oxidative conditions exist on the north side of the Property downgradient of where the soil remedial actions were performed. These groundwater conditions appear to be favorable for degradation of chlorinated solvents, especially vinyl chloride.

Chlorinated Organic Solvents and Associated Degradation Products

TCE, cis-DCE, trans-DCE and vinyl chloride were detected in samples collected from the Property in May 2010 (Table 2). The detected concentrations of TCE, cis-DCE and trans-DCE were well below

the MTCA Method A groundwater CULs. VC was detected in the groundwater samples collected from MW-3, MW-8, MW-16 and MW-18 during the May 2010 sampling event at concentrations greater than the MTCA Method A CUL (Figure 4).

Arsenic

Arsenic was detected in all of the groundwater samples collected during the May 2010 sampling event at concentrations less than MTCA Method A CUL.

Additional Analyses to Assess a Potential Release of Petroleum Hydrocarbons

Petroleum Hydrocarbons

Petroleum hydrocarbons including gasoline-, diesel- and oil-range hydrocarbons were not detected in any of the groundwater samples collected during the May 2010 sampling event. The detection limits for petroleum hydrocarbons were less than the MTCA Method A CULs (Table 3).

cPAHs

cPAHs were not detected in any of the groundwater samples collected during the May 2010 sampling event. The detection limits for the cPAHs were less than the MTCA Method A CUL.

Volatile Organic Compounds

Toluene, ethylbenzene, xylenes, EDB, EDC and MTBE were not detected in the groundwater samples collected during the May 2010 sampling event. The detection limits for these analytes were less than the MTCA Method A CULs. Benzene was detected in samples collected from two locations at concentrations well below the MTCA Method A CUL (Table 3).

Lead

Lead was not detected in the groundwater samples collected during the May 2010 sampling event. The detection limits for lead were less than the MTCA Method A CUL.

PCBs

PCBs were not detected in any of the groundwater samples collected during the May 2010 sampling event. The detection limits for PCBs were less than the MTCA Method A CUL.

DISCUSSION

The results of the May 2010 compliance monitoring event indicate that the concentrations of chlorinated solvents and associated degradation products have generally decreased by at least 50 percent as compared to the results of previous groundwater monitoring events conducted prior to soil remedial actions performed in 2009. The results from the May 2010 groundwater monitoring event also indicate that the concentrations of chlorinated solvents and associated degradation products are present at the Property at concentrations less than the MTCA Method A CULs except for vinyl chloride at four locations (Figure 4). Groundwater compliance monitoring will be performed again in August 2010 to further monitor the natural attenuation of chlorinated solvents and associated degradation products at the Property in accordance with the CMP.

No further monitoring is necessary for the Ecology-requested, additional groundwater analyses performed to assess potential impacts from petroleum hydrocarbons. The additional analytes were either not detected or were detected at concentrations well below the MTCA Method A groundwater CULs. The analytes performed to assess potential impacts from petroleum hydrocarbons were also either not detected or were detected at concentrations less than the MTCA Method A CULs in previous analyses of groundwater samples collected from the Property. Therefore, no additional monitoring is necessary to assess potential impacts from petroleum hydrocarbons at the Property.

LIMITATIONS

This Groundwater Monitoring Report has been prepared for use by the City of Olympia. GeoEngineers has performed these services in general accordance with the scope and limitations of our proposal.

Within the limitations of scope, schedule and budget, our services have been executed in accordance with the generally accepted environmental science practices for groundwater monitoring in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

TABLE 1

SUMMARY OF GROUNDWATER COMPLIANCE MONITORING PARAMETERS¹ - MAY 2010

318 STATE AVENUE SITE
OLYMPIA, WASHINGTON

Analyte	Units	Location	MW-13	MW-04	MW-17	MW-09	MW-03	MW-8		MW-16	MW-18
		Sample ID:	MW13-052510-W	MW4-052510-W	MW17-052410-W	MW9-052510-W	MW3-052410-W	MW8-052410-W	DUPE1-052410-W ²	MW16-052410-W	MW18-052410-W
		Sample Date:	5/25/2010	5/25/2010	5/24/2010	5/25/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010
		MTCA Method A Cleanup Level									
Volatile Organic Compounds											
Tetrachloroethene	µg/l	5	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Trichloroethene	µg/l	5	0.1 U	0.28	0.26 J	0.1 U	0.48	0.1 U	0.1 U	0.44	0.62
1,1-Dichloroethene	µg/l	4,000,000 ³	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Cis-1,2-Dichloroethene	µg/l	800,000 ³	0.1 U	0.11	0.1 UJ	0.1 U	0.14	0.1 U	0.1 U	0.2	0.28
Trans-1,2-Dichloroethene	µg/l	1,600,000 ³	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.18	0.16
Vinyl Chloride	µg/l	0.2	0.02 U	0.12	0.084 J	0.02 U	0.48	0.21	0.23	0.76	2.3
Total Metals											
Arsenic	mg/L	0.005	0.0041 J	0.0045 J	0.0031 J	0.0016 J	0.002 J	0.0027 J	0.0027 J	0.0019 J	0.0038 J

Notes:

¹ The parameters presented are the groundwater compliance monitoring parameters specified in the Groundwater Compliance Monitoring Plan (GeoEngineers 2010).

² Sample DUPE-1-052410-W is a field duplicate of sample MW8-052410-W.

³ A MTCA Method A groundwater cleanup level has not been established; therefore, the MTCA Method B groundwater cleanup level has been provided.

MTCA = Model Toxics Control Act

µg/l = microgram per liter

mg/L = milligram per liter

U = The analyte was not detected at a concentration greater than the identified reporting limit

J = The analyte concentration is estimated

UJ = The analyte was not detected at a concentration greater than the identified reporting limit and the reporting limit concentration is estimated

Bold indicates analyte was detected

Shading indicates concentration is greater than cleanup level

TABLE 2
SUMMARY OF GROUNDWATER QUALITY PARAMETERS¹ - MAY 2010
318 STATE AVENUE SITE
OLYMPIA, WASHINGTON

Location ID	Sample Date	Ferrous Iron (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (mg/l)	pH	Conductivity (uS/m)	Salinity (%)	Dissolved Solids (g/l)	Turbidity (NTU)	Temperature (C)	ORP ² (mv)	Water Level (ft btoc)
MW-13	05/25/10	2.2	6	1.23	8.34	156,000	0.1	1	4.74	14.4	-97	2.91
MW-04	05/25/10	4.5	6.7	1.34	7.34	59,500	0	0.38	0.99	13.9	-80	3.29
MW-17	05/24/10	0.0	31	1.78	7	45,700	0	0.3	2.49	13.5	-23	3.83
MW-09	05/25/10	1.6	9.1	1.22	8.8	99,900	0	0.6	0.96	14.8	-157	3.65
MW-03	05/24/10	0.9	7.5	4.38	9.79	272,000	0.1	1.4	0.89	16.2	-211	4.27
MW-08	05/24/10	0.3	10	1.30	8.45	245,000	0.1	1.6	0.73	14.9	-145	3.45
MW-16	05/24/10	0.0	20	2.44	8.19	26,600	0	0.17	2.9	15.1	-116	4.24
MW-18	05/24/10	0.0	34	3.92	9.16	90,000	0	0.5	1.9	14.3	-194	4.39

Notes:

¹ Groundwater quality parameters also include the analytes ferrous iron and sulfate to evaluate and monitor natural attenuation.

² ORP field readings are considered to be an estimate.

ORP = Oxidation/reduction potential

mg/l = milligrams per liter

g/l = grams per liter

mv = Millivolts

uS/m = microSiemens per meter

% = percent

C = celcius

NTU = nephelometric turbidity unit

ft btoc = feet below the top of monitoring well casing

TABLE 3
SUMMARY OF ADDITIONAL GROUNDWATER MONITORING PARAMETERS¹
318 STATE AVENUE SITE
OLYMPIA, WASHINGTON

Analyte	Units	Location:	MW-17	MW-03	MW-08		MW-16	MW-18
		Sample ID:	MW17-052410-W	MW3-052410-W	MW8-052410-W	DUPE1-052410-W ²	MW16-052410-W	MW18-052410-W
		Sample Date:	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010
		MTCA Method A Cleanup Level						
Petroleum Hydrocarbons								
Gasoline-Range	mg/L	0.8	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Diesel-Range	mg/L	0.5	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Motor Oil-Range	mg/L	0.5	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Carcinogenic PAHs								
Benzo(a)anthracene	µg/l	NE	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U
Benzo(a)pyrene	µg/l	0.1	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U
Benzo(b)fluoranthene	µg/l	NE	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U
Benzo(ghi)perylene	µg/l	NE	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U
Benzo(k)fluoranthene	µg/l	NE	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U
Chrysene	µg/l	NE	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U
Indeno(1,2,3-cd)pyrene	µg/l	NE	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U
Toxic Equivalency Quotients ³ (TEQ)	µg/l	0.1	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U
Volatile Organic Compounds								
Benzene	µg/l	5	0.17 J	0.1 U	0.1 U	0.1 U	0.1 U	0.2
Toluene	µg/l	1,000	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Ethylbenzene	µg/l	700	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Total Xylenes	µg/l	1,000	0.2 UJ	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-dibromoethane (EDB)	µg/l	0.01	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,2-Dichloroethane (EDC)	µg/l	5	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Methyl t-butyl ether	µg/l	20	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Total Metals								
Lead	mg/L	0.015	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
PCBs								
PCB-aroclor 1016	µg/l	NE	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U
PCB-aroclor 1221	µg/l	NE	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U
PCB-aroclor 1232	µg/l	NE	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U
PCB-aroclor 1242	µg/l	NE	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U
PCB-aroclor 1248	µg/l	NE	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U
PCB-aroclor 1254	µg/l	NE	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U
PCB-aroclor 1260	µg/l	NE	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U
Total PCBs	µg/l	0.1	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U

Notes:

¹ The additional groundwater monitoring parameters were analyzed at the request of the Washington State Department of Ecology to evaluate potential contaminants associated with the presence of an underground storage tank.

² Sample DUPE-1-052410-W is a field duplicate of sample MW8-052410-W.

³ Carcinogenic polycyclic aromatic hydrocarbons (CPAHs) were not detected. Therefore, a Toxic Equivalency Quotient was not calculated and the CPAH reporting limit is presented.

µg/l = microgram per liter

mg/L = milligram per liter

U = The analyte was not detected at a concentration greater than the identified reporting limit

J = The analyte concentration is estimated

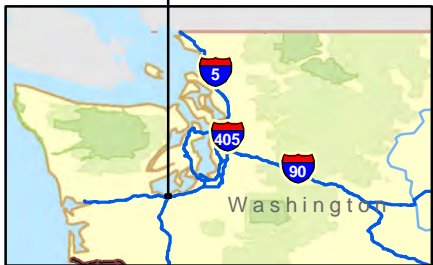
UJ = The analyte was not detected at a concentration greater than the identified reporting limit and the reporting limit concentration is estimated

PAHs = Polycyclic Aromatic Hydrocarbons

NE = A MTCA Method A groundwater cleanup level has not been established for analyte

Bold indicates analyte was detected

MTCA = Model Toxics Control Act



Notes:

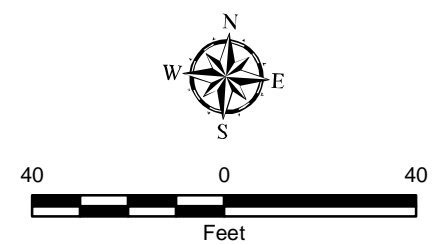
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3. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without permission.

Data Sources: 2008 Shaded Relief from ESRI, 2008 Topographic Maps from National Geographic Society
 Projection: NAD_1983_StatePlane_Washington_North_FIPS_4601_Feet
 Datum: D_North_American_1983

Vicinity Map	
318 State Avenue NE Olympia, Washington	
	Figure 1



- Legend**
- MW-03 Monitoring Well Sampled for Groundwater Analysis and used to Monitor Groundwater Gradients
 - MW-01 Monitoring Well used to Monitor Groundwater Gradients
 - CSZ 1 Contaminated Soil Zones (CSZ) Remediated in September-October 2009
 - Approximate Property Boundary



**Groundwater Compliance
Monitoring Locations**

318 State Avenue NE
Olympia, Washington

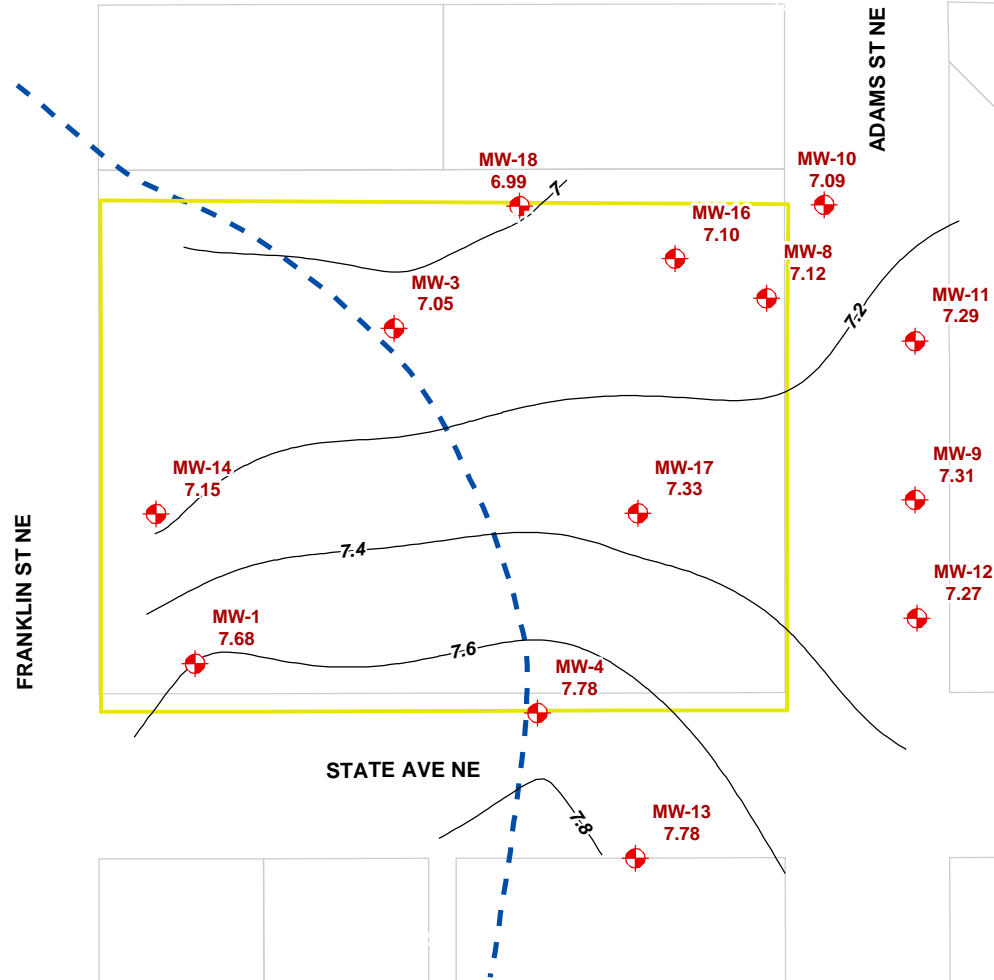
GEOENGINEERS

Figure 2

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Data Sources: Approximate Property Boundary from Thurston County parcels (revised by GeoEngineers). Aerial photograph (2009) from Thurston County Data Center. Data Frame Rotated 356 degrees.
 Projection: NAD_1983_StatePlane_Washington_South_FIPS_4602_Feet
 Datum: D_North_American_1983

OLYMPIA AVENUE NE



MW01
7.68

GeoEngineers Monitoring Well Location, ID and Groundwater Elevations (2010) based on mean sea level

Approximate Property Boundary
 Historic Shoreline

Parcel Boundary

Groundwater Contours (0.2-ft interval)

Reference: Approximate Property Boundary from Thurston County parcels (revised by GeoEngineers). Parcels from Thurston County.

Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.



Potentiometric Surface Map - May 24, 2010 Measurements

318 State Avenue NE
Olympia, Washington



Figure 3



Legend

- MW-03 Monitoring Well Sampled for Groundwater Analysis and used to Monitor Groundwater Gradients
- MW-01 Monitoring Well used to Monitor Groundwater Gradients
- Vinyl Chloride at concentrations greater than MTCA Method A (0.2 ug/L)
- CSZ 1 Contaminated Soil Zones (CSZ) Remediated in September-October 2009
- Approximate Property Boundary

Well	Event	Result
MW-03		
Vinyl Chloride	May-10	0.48 ug/L
MW-08/DUPLICATE		
Vinyl Chloride	May-10	0.21/ 0.23 ug/L
MW-16		
Vinyl Chloride	May-10	0.76 ug/L
MW-18		
Vinyl Chloride	May-10	2.3 ug/L



Notes:
 1. MTCA = Model Toxics Control Act, ug/L = micrograms per liter
 2. The locations of all features shown are approximate.
 3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Sources: Approximate Property Boundary from Thurston County parcels (revised by GeoEngineers). Aerial photograph (2009) from Thurston County Data Center. Data Frame Rotated 356 degrees.
 Projection: NAD_1983_StatePlane_Washington_South_FIPS_4602_Feet
 Datum: D_North_American_1983

Chemical Analytical Results Exceeding Groundwater Compliance Criteria

318 State Avenue NE
 Olympia, Washington



Figure 4

A topographic map showing contour lines and a dashed path. The map is oriented vertically, with the top of the page representing the upper part of the terrain. The contour lines are solid blue lines of varying thickness, representing different elevations. A dashed blue line traces a path across the map, starting from the top left, moving down and right, then curving around several peaks, and ending near the bottom center. The path appears to be a route or a boundary. The background is white, and the contour lines are blue.

APPENDIX A
New Monitoring Well Logs

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS <small>(LITTLE OR NO FINES)</small>		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		SAND AND SANDY SOILS		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS	CLEAN SANDS <small>(LITTLE OR NO FINES)</small>		SW	WELL-GRADED SANDS, GRAVELLY SANDS
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SP	POORLY-GRADED SANDS, GRAVELLY SAND
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SM	SILTY SANDS, SAND - SILT MIXTURES
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
		LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		LIQUID LIMIT LESS THAN 50		OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
		LIQUID LIMIT GREATER THAN 50		CH	INORGANIC CLAYS OF HIGH PLASTICITY
		LIQUID LIMIT GREATER THAN 50		OH	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

Sampler Symbol Descriptions

	2.4-inch I.D. split barrel
	Standard Penetration Test (SPT)
	Shelby tube
	Piston
	Direct-Push
	Bulk or grab

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

A "P" indicates sampler pushed using the weight of the drill rig.

ADDITIONAL MATERIAL SYMBOLS

SYMBOLS		TYPICAL DESCRIPTIONS
GRAPH	LETTER	
	CC	Cement Concrete
	AC	Asphalt Concrete
	CR	Crushed Rock/ Quarry Spalls
	TS	Topsoil/ Forest Duff/Sod



Measured groundwater level in exploration, well, or piezometer



Groundwater observed at time of exploration



Perched water observed at time of exploration



Measured free product in well or piezometer

Graphic Log Contact



Distinct contact between soil strata or geologic units



Approximate location of soil strata change within a geologic soil unit

Material Description Contact



Distinct contact between soil strata or geologic units



Approximate location of soil strata change within a geologic soil unit

Laboratory / Field Tests

%F	Percent fines
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
OC	Organic content
PM	Permeability or hydraulic conductivity
PP	Pocket penetrometer
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
VS	Vane shear

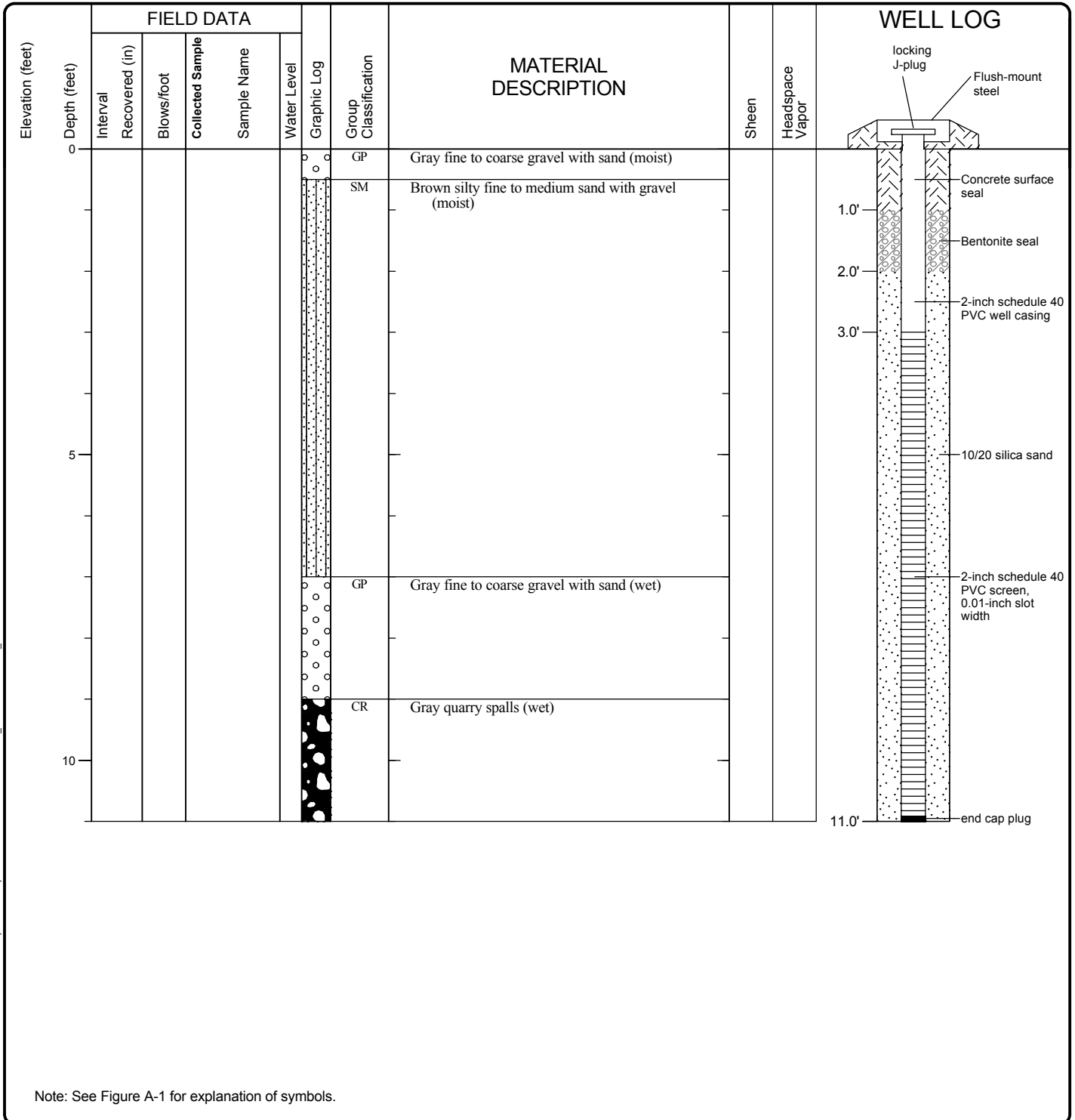
Sheen Classification

NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen
NT	Not Tested

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

KEY TO EXPLORATION LOGS

Start Drilled 5/17/2010	End 5/17/2010	Total Depth (ft)	11	Logged By Checked By	MES NER	Driller	ESN Northwest	Drilling Method	Hollow-stem Auger
Hammer Data	Automatic 140 (lbs) / 30 (in) Drop			Drilling Equipment	Power Probe 9630		A 2 (in) well was installed on 5/17/2010 to a depth of 11 (ft). Well was developed on 5/17/2010.		
Surface Elevation (ft) Vertical Datum	Undetermined			Top of Casing Elevation (ft)	11.2		<u>Groundwater</u>	<u>Depth to</u> Water (ft)	<u>Elevation (ft)</u>
Latitude Longitude	47.046281 -122.898478			Horizontal Datum	N/A		<u>Date Measured</u>		
Notes: Auger Data: 8 inches I.D									



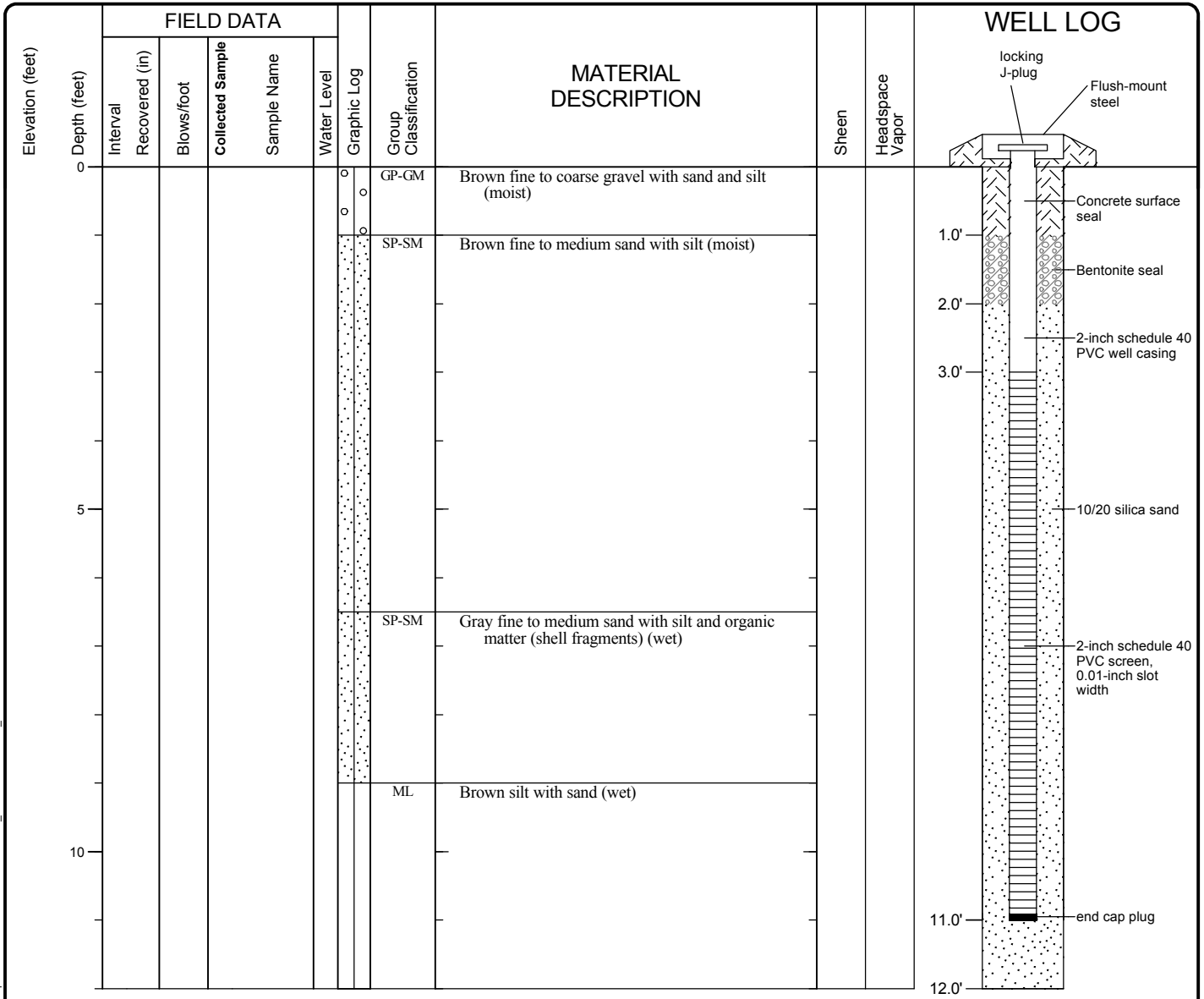
Tacoma: Date: 6/29/10 Path: P:\010415049\06\GINT\041504906.GPJ DBT Template\lib\Template: GEOENGINEERS.GDT\GEBL_ENVIRONMENTAL_WELL

Log of Monitoring Well MW-17



Project: City of Olympia/NE State Ave Post-Remed
 Project Location: Olympia, Washington
 Project Number: 0415-049-06

Start Drilled 5/17/2010	End 5/17/2010	Total Depth (ft)	12	Logged By Checked By	MES NER	Driller	ESN Northwest	Drilling Method	Hollow-stem Auger
Hammer Data		Automatic 140 (lbs) / 30 (in) Drop		Drilling Equipment		Power Probe 9630		A 2 (in) well was installed on 5/17/2010 to a depth of 12 (ft). Well was developed on 5/17/2010.	
Surface Elevation (ft) Vertical Datum		Undetermined		Top of Casing Elevation (ft)		11.4		<u>Groundwater</u> <u>Date Measured</u>	
Latitude Longitude		47.046576 -122.898695		Horizontal Datum		N/A		Depth to Water (ft)	
								Elevation (ft)	
Notes: Auger Data: 8 inches I.D									



Note: See Figure A-1 for explanation of symbols.

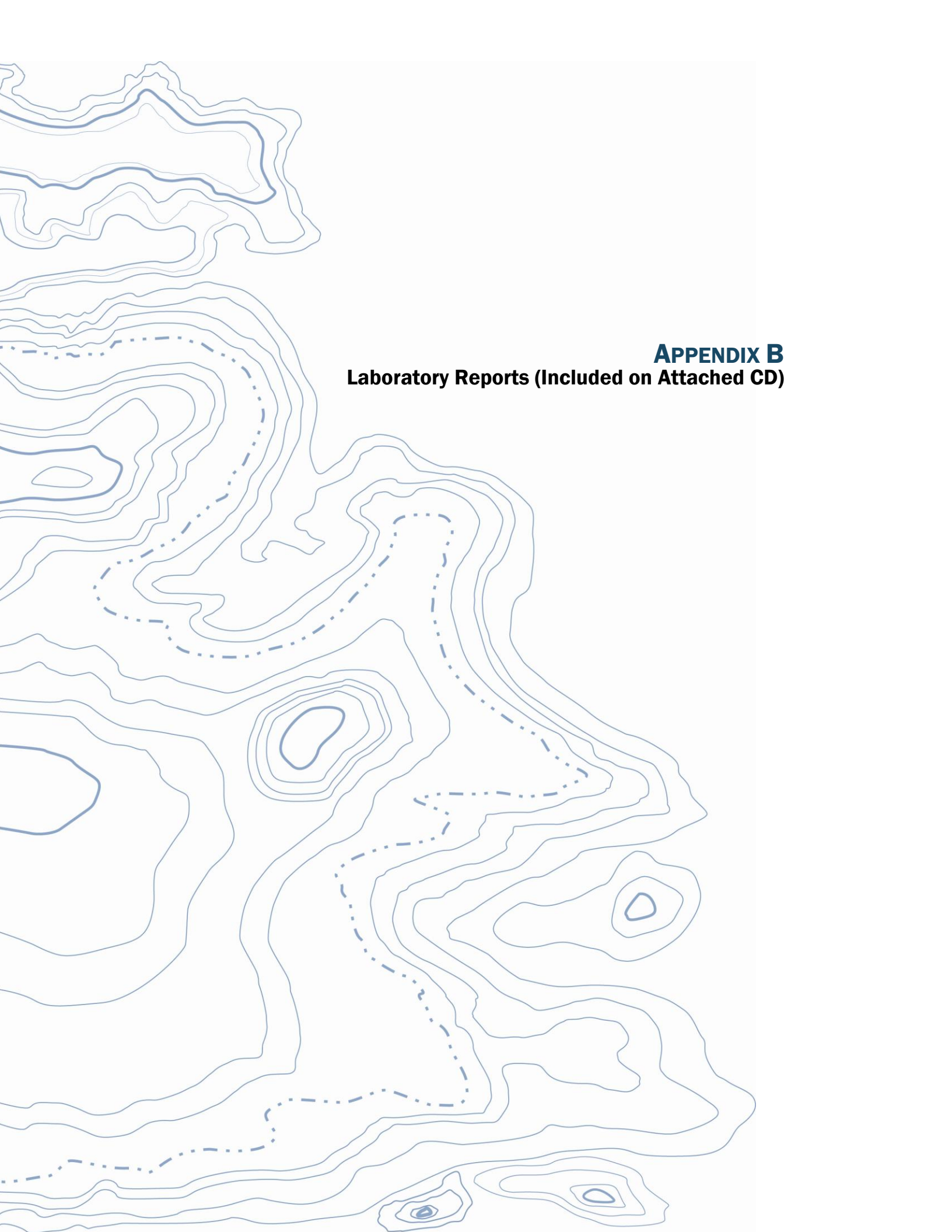
Log of Monitoring Well MW-18



Project: City of Olympia/NE State Ave Post-Remed
 Project Location: Olympia, Washington
 Project Number: 0415-049-06

Figure A-3
 Sheet 1 of 1

Tacoma: Date: 6/29/10 Path: P:\010415049\06\GINT\041504906.GPJ DBT Template\lib\Template: GEOENGINEERS8.GDT\GEBL_ENVIRONMENTAL_WELL



APPENDIX B
Laboratory Reports (Included on Attached CD)

ANALYTICAL REPORT

Job Number: 580-19582-1

Job Description: 318 State, City of Olympia

For:

GeoEngineers Inc
1101 Fawcett, Suite 200
Tacoma, WA 98402

Attention: Iain Wingard



Approved for release.
Kate Haney
Project Manager II
6/16/2010 2:32 PM

Kate Haney
Project Manager II
kate.haney@testamericainc.com
06/16/2010

cc: Nick Rohrbach

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This report shall not be reproduced except in full, without prior express written approval by the laboratory. The results relate only to the item(s) tested and the sample(s) as received by the laboratory.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted in the case narrative.

TestAmerica Laboratories, Inc.

TestAmerica Seattle 5755 8th Street East, Tacoma, WA 98424
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Job Narrative
580-19582-1

RECEIPT

The samples were received on 05/25/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.7 C.

ANIONS

Samples 580-19582-1 through 580-19582-3 were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 05/27/2010.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

TOTAL METALS

Samples 580-19582-1 through 580-19582-3 were analyzed for total metals in accordance with EPA SW-846 Method 6020. The samples were prepared on 06/07/2010 and analyzed on 06/08/2010.

The ICP-MS ICSA standard fell outside the control criteria for arsenic. The standard contains trace impurities derived from the manufacturing process, which may cause these standards to fail method QC criteria. Regrettably corrective action can not be performed for any outliers other than to note deficiencies in the laboratory's QC report section. The associated samples were qualified "^" and reported.

No other difficulties were encountered during the total metals analyses.

All other quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS) LOW LEVEL

Samples 580-19582-1 through 580-19582-4 were analyzed for volatile organic compounds (GC-MS) low level in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/07/2010 and 06/08/2010.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: GeoEngineers Inc

Job Number: 580-19582-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-19582-1	MW4-052510-W	Water	05/25/2010 1004	05/25/2010 1230
580-19582-2	MW9-052510-W	Water	05/25/2010 0854	05/25/2010 1230
580-19582-3	MW13-052510-W	Water	05/25/2010 0740	05/25/2010 1230
580-19582-4	Trip Blank	Water	05/25/2010 0000	05/25/2010 1230

METHOD SUMMARY

Client: GeoEngineers Inc

Job Number: 580-19582-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Volatile Organic Compounds (GC/MS)	TAL TAC	SW846 8260B	
Purge and Trap	TAL TAC		SW846 5030B
Metals (ICP/MS)	TAL TAC	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL TAC		SW846 3005A
Anions, Ion Chromatography	TAL TAC	MCAWW 300.0	

Lab References:

TAL TAC = TestAmerica Tacoma

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

METHOD / ANALYST SUMMARY

Client: GeoEngineers Inc

Job Number: 580-19582-1

Method	Analyst	Analyst ID
SW846 8260B	Kreidermacher, Scott	SK
SW846 6020	Woo, Fred C	FCW
MCAWW 300.0	Teffeau, Kristine	KT

Method 8260B Low Level

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): ZB-624short ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	FB #	TFT #	TOL #	EBD10 #	BFB #
MW4-052510-W	580-19582-1	100	99	93	92	99
MW9-052510-W	580-19582-2	99	103	92	95	103
MW13-052510-W	580-19582-3	99	101	95	94	102
Trip Blank	580-19582-4	101	97	94	94	103
	MB 580-65110/17	103	106	93	96	97
	MB 580-65198/4	101	106	96	95	97
	LCS 580-65110/18	103	106	99	97	104
	LCS 580-65198/5	101	112	100	97	103
	LCSD 580-65110/19	103	104	100	99	102
	LCSD 580-65198/6	99	106	99	94	101

QC LIMITS

FB = Fluorobenzene (Surr)	70-130
TFT = Trifluorotoluene (Surr)	80-125
TOL = Toluene-d8 (Surr)	75-125
EBD10 = Ethylbenzene-d10	75-125
BFB = 4-Bromofluorobenzene (Surr)	75-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: I0314421.D
 Lab ID: LCS 580-65110/18 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethene	4.95	6.59	133	78-151	
trans-1,2-Dichloroethene	5.00	5.34	107	73-135	
Tetrachloroethene	5.00	6.24	125	54-161	
Trichloroethene	5.00	5.02	100	79-131	
Vinyl chloride	5.00	5.55	111	47-160	
cis-1,2-Dichloroethene	5.00	5.20	104	71-144	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: I0314462.D
 Lab ID: LCS 580-65198/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethene	4.95	6.47	131	78-151	
trans-1,2-Dichloroethene	5.00	5.33	107	73-135	
Tetrachloroethene	5.00	5.82	116	54-161	
Trichloroethene	5.00	5.17	103	79-131	
Vinyl chloride	5.00	5.11	102	47-160	
cis-1,2-Dichloroethene	5.00	5.21	104	71-144	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: I0314422.D
 Lab ID: LCSO 580-65110/19 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSO CONCENTRATION (ug/L)	LCSO % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1-Dichloroethene	4.95	6.29	127	5	20	78-151	
trans-1,2-Dichloroethene	5.00	5.12	102	4	20	73-135	
Tetrachloroethene	5.00	6.68	133	7	20	54-161	
Trichloroethene	5.00	5.04	101	0	20	79-131	
Vinyl chloride	5.00	5.35	107	4	20	47-160	
cis-1,2-Dichloroethene	5.00	5.01	100	4	20	71-144	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: I0314463.D
 Lab ID: LCSD 580-65198/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1-Dichloroethene	4.95	5.88	119	9	20	78-151	
trans-1,2-Dichloroethene	5.00	5.09	102	5	20	73-135	
Tetrachloroethene	5.00	6.12	122	5	20	54-161	
Trichloroethene	5.00	4.89	98	5	20	79-131	
Vinyl chloride	5.00	4.89	98	4	20	47-160	
cis-1,2-Dichloroethene	5.00	5.09	102	2	20	71-144	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Lab File ID: I0314420.D Lab Sample ID: MB 580-65110/17
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: SEA015 Date Analyzed: 06/07/2010 18:52
 GC Column: ZB-624short ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-65110/18	I0314421.D	06/07/2010 19:17
	LCSD 580-65110/19	I0314422.D	06/07/2010 19:42
Trip Blank	580-19582-4	I0314424.D	06/07/2010 20:33

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Lab File ID: I0314461.D Lab Sample ID: MB 580-65198/4
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: SEA015 Date Analyzed: 06/08/2010 12:15
 GC Column: ZB-624short ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-65198/5	I0314462.D	06/08/2010 12:41
	LCSD 580-65198/6	I0314463.D	06/08/2010 13:06
MW4-052510-W	580-19582-1	I0314465.D	06/08/2010 13:57
MW9-052510-W	580-19582-2	I0314466.D	06/08/2010 14:22
MW13-052510-W	580-19582-3	I0314467.D	06/08/2010 14:47

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Lab File ID: I0314404.D BFB Injection Date: 06/07/2010
 Instrument ID: SEA015 BFB Injection Time: 12:09
 Analysis Batch No.: 65110

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.7
75	30.0 - 60.0 % of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.4
173	Less than 2.0 % of mass 174	0.2 (0.3) 1
174	50.0 - 120.00 % of mass 95	69.6
175	5.0 - 9.0 % of mass 174	5.0 (7.2) 1
176	95.0 - 101.0 % of mass 174	66.6 (95.7) 1
177	5.0 - 9.0 % of mass 176	4.5 (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
	STD 580-65110/2	I0314405.D	06/07/2010	12:34

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Lab File ID: I0314405BFB.D BFB Injection Date: 06/07/2010
 Instrument ID: SEA015 BFB Injection Time: 12:34
 Analysis Batch No.: 65110

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.2
75	30.0 - 60.0 % of mass 95	50.8
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	0.1 (0.1) 1
174	50.0 - 120.00 % of mass 95	72.9
175	5.0 - 9.0 % of mass 174	5.3 (7.2) 1
176	95.0 - 101.0 % of mass 174	70.5 (96.6) 1
177	5.0 - 9.0 % of mass 176	4.7 (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
	STD 580-65110/3	I0314406.D	06/07/2010	13:00
	STD 580-65110/4	I0314407.D	06/07/2010	13:25
	STD 580-65110/5	I0314408.D	06/07/2010	13:50
	STD001 580-65110/6	I0314409.D	06/07/2010	14:15
	STD002 580-65110/7	I0314410.D	06/07/2010	14:40
	ICIS 580-65110/8	I0314411.D	06/07/2010	15:05
	STD010 580-65110/9	I0314412.D	06/07/2010	15:30
	STD020 580-65110/10	I0314413.D	06/07/2010	15:56
	STD040 580-65110/11	I0314414.D	06/07/2010	16:21
	STD100 580-65110/12	I0314415.D	06/07/2010	16:46
	ICV 580-65110/15	I0314418.D	06/07/2010	18:02
	MB 580-65110/17	I0314420.D	06/07/2010	18:52
	LCS 580-65110/18	I0314421.D	06/07/2010	19:17
	LCSD 580-65110/19	I0314422.D	06/07/2010	19:42
Trip Blank	580-19582-4	I0314424.D	06/07/2010	20:33

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Lab File ID: I0314458.D BFB Injection Date: 06/08/2010
 Instrument ID: SEA015 BFB Injection Time: 11:00
 Analysis Batch No.: 65198

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	48.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.4
173	Less than 2.0 % of mass 174	0.6 (0.8)1
174	50.0 - 120.00 % of mass 95	74.1
175	5.0 - 9.0 % of mass 174	5.0 (6.8)1
176	95.0 - 101.0 % of mass 174	71.7 (96.6)1
177	5.0 - 9.0 % of mass 176	4.8 (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 580-65198/2	I0314459.D	06/08/2010	11:25
	MB 580-65198/4	I0314461.D	06/08/2010	12:15
	LCS 580-65198/5	I0314462.D	06/08/2010	12:41
	LCSD 580-65198/6	I0314463.D	06/08/2010	13:06
MW4-052510-W	580-19582-1	I0314465.D	06/08/2010	13:57
MW9-052510-W	580-19582-2	I0314466.D	06/08/2010	14:22
MW13-052510-W	580-19582-3	I0314467.D	06/08/2010	14:47

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Sample No.: ICIS 580-65110/8 Date Analyzed: 06/07/2010 15:05
 Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm)
 Lab File ID (Standard): I0314411.D Heated Purge: (Y/N) N
 Calibration ID: 5119

	PFB		DFB		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	1510064	2.49	2708026	2.78	1299841	4.95	
UPPER LIMIT	3020128	2.99	5416052	3.28	2599682	5.45	
LOWER LIMIT	755032	1.99	1354013	2.28	649921	4.45	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 580-65110/15	1713062	2.49	3047619	2.78	1412417	4.95	
MB 580-65110/17	1491581	2.49	2727197	2.78	1217367	4.95	
LCS 580-65110/18	1515864	2.49	2722022	2.78	1278871	4.95	
LCSD 580-65110/19	1601904	2.49	2835378	2.78	1337692	4.95	
580-19582-4	Trip Blank	1476075	2.49	2687638	2.78	1164105	4.94

PFB = Pentafluorobenzene
 DFB = 1,4-Difluorobenzene
 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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Sample No.: CCVIS 580-65198/2 Date Analyzed: 06/08/2010 11:25
 Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm)
 Lab File ID (Standard): I0314459.D Heated Purge: (Y/N) N
 Calibration ID: 5119

	PFB		DFB		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1690978	2.49	2975226	2.78	1454170	4.95	
UPPER LIMIT	3381956	2.99	5950452	3.28	2908340	5.45	
LOWER LIMIT	845489	1.99	1487613	2.28	727085	4.45	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 580-65198/4	1588315	2.49	2796027	2.78	1287832	4.95	
LCS 580-65198/5	1631822	2.49	2818079	2.78	1368075	4.95	
LCSD 580-65198/6	1671232	2.49	2922843	2.78	1367679	4.95	
580-19582-1	MW4-052510-W	1552115	2.49	2785189	2.78	1269412	4.95
580-19582-2	MW9-052510-W	1521053	2.49	2755295	2.78	1223581	4.95
580-19582-3	MW13-052510-W	1501308	2.49	2671254	2.77	1215298	4.95

PFB = Pentafluorobenzene
 DFB = 1,4-Difluorobenzene
 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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Client Sample ID: MW4-052510-W Lab Sample ID: 580-19582-1
 Matrix: Water Lab File ID: I0314465.D
 Analysis Method: 8260B Date Collected: 05/25/2010 10:04
 Sample wt/vol: 10 (mL) Date Analyzed: 06/08/2010 13:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65198 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
75-35-4	1,1-Dichloroethene	ND		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	ND		0.10	0.10
127-18-4	Tetrachloroethene	ND		0.10	0.10
79-01-6	Trichloroethene	0.28		0.10	0.10
75-01-4	Vinyl chloride	0.12		0.020	0.020
156-59-2	cis-1,2-Dichloroethene	0.11		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	99	80-125	
462-06-6	Fluorobenzene (Surr)	100	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	99	75-120	
2037-26-5	Toluene-d8 (Surr)	93	75-125	
25837-05-2	Ethylbenzene-d10	92	75-125	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Client Sample ID: MW9-052510-W Lab Sample ID: 580-19582-2
 Matrix: Water Lab File ID: I0314466.D
 Analysis Method: 8260B Date Collected: 05/25/2010 08:54
 Sample wt/vol: 10 (mL) Date Analyzed: 06/08/2010 14:22
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65198 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
75-35-4	1,1-Dichloroethene	ND		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	ND		0.10	0.10
127-18-4	Tetrachloroethene	ND		0.10	0.10
79-01-6	Trichloroethene	ND		0.10	0.10
75-01-4	Vinyl chloride	ND		0.020	0.020
156-59-2	cis-1,2-Dichloroethene	ND		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	103	80-125	
462-06-6	Fluorobenzene (Surr)	99	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	103	75-120	
2037-26-5	Toluene-d8 (Surr)	92	75-125	
25837-05-2	Ethylbenzene-d10	95	75-125	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Client Sample ID: MW13-052510-W Lab Sample ID: 580-19582-3
 Matrix: Water Lab File ID: I0314467.D
 Analysis Method: 8260B Date Collected: 05/25/2010 07:40
 Sample wt/vol: 10 (mL) Date Analyzed: 06/08/2010 14:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65198 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
75-35-4	1,1-Dichloroethene	ND		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	ND		0.10	0.10
127-18-4	Tetrachloroethene	ND		0.10	0.10
79-01-6	Trichloroethene	ND		0.10	0.10
75-01-4	Vinyl chloride	ND		0.020	0.020
156-59-2	cis-1,2-Dichloroethene	ND		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	101	80-125	
462-06-6	Fluorobenzene (Surr)	99	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	102	75-120	
2037-26-5	Toluene-d8 (Surr)	95	75-125	
25837-05-2	Ethylbenzene-d10	94	75-125	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Client Sample ID: Trip Blank Lab Sample ID: 580-19582-4
 Matrix: Water Lab File ID: I0314424.D
 Analysis Method: 8260B Date Collected: 05/25/2010 00:00
 Sample wt/vol: 10 (mL) Date Analyzed: 06/07/2010 20:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65110 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
75-35-4	1,1-Dichloroethene	ND		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	ND		0.10	0.10
127-18-4	Tetrachloroethene	ND		0.10	0.10
79-01-6	Trichloroethene	ND		0.10	0.10
75-01-4	Vinyl chloride	ND		0.020	0.020
156-59-2	cis-1,2-Dichloroethene	ND		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	97	80-125	
462-06-6	Fluorobenzene (Surr)	101	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	103	75-120	
2037-26-5	Toluene-d8 (Surr)	94	75-125	
25837-05-2	Ethylbenzene-d10	94	75-125	

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 580-65110/2	I0314405.D
Level 2	STD 580-65110/3	I0314406.D
Level 3	STD 580-65110/4	I0314407.D
Level 4	STD 580-65110/5	I0314408.D
Level 5	STD001 580-65110/6	I0314409.D
Level 6	STD002 580-65110/7	I0314410.D
Level 7	ICIS 580-65110/8	I0314411.D
Level 8	STD010 580-65110/9	I0314412.D
Level 9	STD020 580-65110/10	I0314413.D
Level 10	STD040 580-65110/11	I0314414.D
Level 11	STD100 580-65110/12	I0314415.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Dichlorodifluoromethane	++++ 0.6070 0.5637	0.6912 0.6195	0.7959 0.5218	0.6342 0.5872	0.6421 0.5682	Ave		0.6231			12.0		15.0				
Chloromethane	++++ 0.6679 0.5242	1.0667 0.5681	0.8839 0.5312	0.5638 0.5507	0.7032 0.5214	Lin1	0.0673	0.5278		0.1000				0.9990		0.9900	
Vinyl chloride	0.2641 0.5632 0.5097	0.7273 0.5489	0.7225 0.4961	0.5939 0.5298	0.6041 0.5048	Lin1	0.0062	0.5125						0.9990		0.9900	
Bromomethane	++++ 0.4973 0.3506	0.6776 0.4889	0.6969 0.4149	0.6276 0.4369	0.4880 0.4189	Lin	0.5643	0.3550						0.9940		0.9900	
Chloroethane	++++ 0.1194 0.0702	0.4255 0.1065	0.2484 0.0876	0.2112 0.0911	0.1004 0.0826	Lin	0.1447	0.0706						0.9940		0.9900	
Trichlorofluoromethane	++++ 0.8653 0.7406	0.9136 0.8475	1.1401 0.7521	0.8594 0.8230	0.9160 0.7922	Ave		0.8650			13.0		15.0				
Acrolein	++++ 0.0457 0.0330	0.0692 0.0400	0.0840 0.0358	0.0527 0.0372	0.0488 0.0346	Lin1	0.0363	0.0341						0.9960		0.9900	
1,1-Dichloroethene	++++ 0.4260 0.3679	0.5492 0.3946	0.6222 0.3958	0.4311 0.4031	0.4680 0.4021	Lin1	0.0334	0.3817						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 Tacoma

Job No.: 580-19582-1

Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015

GC Column: ZB-624short ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34

Calibration End Date: 06/07/2010 16:46

Calibration ID: 5119

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 0.4426 0.3879	0.5155 0.4138	0.5234 0.3944	0.4194 0.4151	0.4655 0.4127	Ave		0.4390			11.0		15.0				
Acetone	++++ 0.0736 0.0491	0.0698 0.0646	0.1924 0.0587	0.0892 0.0594	0.0853 0.0544	Qua1	0.0547	0.0606	0					0.9940		0.9900	
Iodomethane	++++ 1.0531 0.5847	1.0617 1.0023	1.2923 0.9766	1.0565 0.9823	1.1054 0.9273	Qua2	0.0334	1.0777	-0.001					0.9930		0.9900	
2-Methyl-2-propanol	++++ 0.0101 0.0100	0.0084 0.0096	0.0256 0.0104	0.0117 0.0099	0.0150 0.0100	Lin1	0.0054	0.0100						0.9970		0.9900	
Carbon disulfide	++++ 1.1476 1.1672	1.4622 1.1282	1.4760 1.1338	1.0792 1.2341	1.1452 1.2281	Ave		1.2202			11.0		15.0				
Methylene Chloride	++++ 0.5814 0.4136	1.6338 0.4251	1.1188 0.4589	0.7956 0.4440	0.6004 0.4400	Lin1	0.1400	0.4233						0.9980		0.9900	
1,1-Dichloroethane	++++ 0.6828 0.7230	0.7040 0.6619	0.8218 0.6624	0.6961 0.6807	0.7068 0.7191	Ave		0.7058		0.1000	6.5		15.0				
Vinyl acetate	++++ 0.0401 0.0533	0.0385 0.0378	0.0434 0.0371	0.0355 0.0424	0.0388 0.0419	Ave		0.0409			12.0		15.0				
trans-1,2-Dichloroethene	++++ 0.3625 0.4077	0.3899 0.3314	0.4580 0.3424	0.3544 0.3565	0.3707 0.3878	Ave		0.3761			9.8		15.0				
Methyl tert-butyl ether	++++ 0.9298 0.9607	0.9649 0.8651	1.0703 0.8233	0.9431 0.9041	0.9184 0.9125	Ave		0.9292			7.1		15.0				
Acrylonitrile	++++ 0.1016 0.0885	0.1178 0.0874	0.1207 0.0883	0.1033 0.0898	0.1044 0.0898	Ave		0.0992			13.0		15.0				
n-Hexane	++++ 0.4757 0.4829	0.4867 0.4303	0.6030 0.4333	0.4672 0.4620	0.4928 0.4754	Ave		0.4809			9.9		15.0				
Tert-butyl ethyl ether	++++ 0.3866 0.4260	0.3414 0.3734	0.4097 0.3533	0.3531 0.3939	0.3538 0.4075	Ave		0.3799			7.7		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 Tacoma Job No.: 580-19582-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
2,2-Dichloropropane	++++ 0.4325 0.5238	0.4727 0.4121	0.6328 0.4183	0.4245 0.4482	0.4119 0.4824	Ave		0.4659			15.0		15.0				
2-Butanone	++++ 0.0111 0.0108	0.0083 0.0101	0.0152 0.0096	0.0118 0.0105	0.0120 0.0105	Lin1	0.0009	0.0106						0.9990			0.9900
Chlorobromomethane	++++ 0.2273 0.2858	0.2157 0.2181	0.2521 0.2272	0.2210 0.2304	0.2346 0.2493	Ave		0.2362			9.0		15.0				
cis-1,2-Dichloroethene	++++ 0.4047 0.4751	0.3686 0.3743	0.4509 0.3799	0.3679 0.4044	0.4040 0.4362	Ave		0.4066			9.1		15.0				
Carbon tetrachloride	++++ 0.4280 0.5674	0.5635 0.4057	0.4729 0.4293	0.3399 0.4651	0.3951 0.5059	Lin1	-0.037	0.5289						0.9910			0.9900
1,2-Dichloroethane	++++ 0.5258 0.5224	0.5009 0.4855	0.6727 0.4879	0.5579 0.4937	0.5492 0.5097	Ave		0.5306			10.0		15.0				
Tert-amyl methyl ether	++++ 0.8218 1.0262	0.8360 0.8437	0.9773 0.8287	0.7706 0.9113	0.8157 0.9453	Ave		0.8777			9.4		15.0				
Chloroform	++++ 0.6794 0.7135	0.6047 0.6395	0.8095 0.6335	0.6680 0.6592	0.6805 0.6834	Ave		0.6771			8.2		15.0				
1,1,1-Trichloroethane	++++ 0.5107 0.6154	0.4749 0.4848	0.6208 0.5044	0.4663 0.5375	0.4842 0.5746	Ave		0.5274			11.0		15.0				
1,1-Dichloropropene	++++ 0.5027 0.5729	0.5401 0.4847	0.6573 0.4831	0.4711 0.5138	0.5324 0.5444	Ave		0.5302			10.0		15.0				
Benzene	++++ 1.5104 1.4350	1.6262 1.4031	1.8999 1.4245	1.4776 1.4506	1.4911 1.5283	Ave		1.5247			9.6		15.0				
1,2-Dichloropropane	++++ 0.2251 0.2555	0.2403 0.2205	0.2803 0.2234	0.2319 0.2384	0.2437 0.2499	Ave		0.2409			7.5		15.0				
1,4-Dioxane	++++ 0.0002 0.0002	0.0003 0.0002	0.0003 0.0002	0.0002 0.0002	0.0002 0.0002	Lin1	0	0.0002						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 Tacoma Job No.: 580-19582-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Dibromomethane	++++ 0.0950 0.1231	0.0802 0.0911	0.0933 0.0975	0.1016 0.1022	0.0962 0.1085	Ave		0.0989			11.0		15.0				
Dichlorobromomethane	++++ 0.2244 0.3218	0.1651 0.2236	0.2318 0.2422	0.2059 0.2712	0.2074 0.2869	Lin1	-0.032	0.3008						0.9910		0.9900	
Trichloroethene	++++ 0.1931 0.2575	0.2429 0.1757	0.2319 0.1883	0.1733 0.2010	0.1985 0.2158	Ave		0.2078			14.0		15.0				
cis-1,3-Dichloropropene	++++ 0.2605 0.3824	0.1908 0.2656	0.2456 0.2902	0.2165 0.3287	0.2434 0.3453	Lin1	-0.042	0.3593						0.9920		0.9900	
4-Methyl-2-pentanone	++++ 0.0588 0.0704	0.0412 0.0581	0.0545 0.0600	0.0504 0.0663	0.0536 0.0651	Ave		0.0578			15.0		15.0				
trans-1,3-Dichloropropene	++++ 0.1964 0.3323	0.1687 0.2063	0.2152 0.2394	0.1555 0.2655	0.1831 0.2927	Lin	-0.478	0.3307						0.9970		0.9900	
2-Chloroethyl vinyl ether	++++ 0.1135 0.1318	0.0800 0.1142	0.1044 0.1195	0.0903 0.1350	0.1051 0.1375	Lin1	-0.050	0.1323						0.9980		0.9900	
1,1,2-Trichloroethane	++++ 0.1683 0.1937	0.1655 0.1567	0.1824 0.1590	0.1643 0.1693	0.1642 0.1744	Ave		0.1698			6.6		15.0				
Tetrachloroethene	++++ 0.1762 ++++	0.1558 0.1887	0.1620 0.2102	0.1601 0.2333	0.1857 0.3027	Qua2	-0.002	0.1736	0.0032					0.9990		0.9900	
1,3-Dichloropropane	++++ 0.2780 0.3395	0.2394 0.2665	0.3391 0.2867	0.2836 0.2991	0.2778 0.3101	Ave		0.2920			11.0		15.0				
2-Hexanone	++++ 0.0525 0.0653	0.0441 0.0529	0.0476 0.0544	0.0397 0.0614	0.0448 0.0593	Lin1	-0.027	0.0625						0.9960		0.9900	
Chlorodibromomethane	++++ 0.1343 0.2417	0.1066 0.1333	0.1267 0.1582	0.1155 0.1825	0.1220 0.1997	Qua2	-0.003	0.1383	0.0012					0.9930		0.9900	
Toluene	++++ 0.8563 0.7530	0.9967 0.7852	1.0246 0.8288	0.8684 0.8748	0.8559 0.9303	Ave		0.8774			9.8		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 Tacoma Job No.: 580-19582-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
1,2-Dibromoethane	++++ 0.1619 0.1870	0.1432 0.1490	0.1607 0.1613	0.1415 0.1679	0.1479 0.1754	Ave		0.1596			9.2		15.0				
1,1,1,2-Tetrachloroethane	++++ 0.3396 0.5608	0.3338 0.3469	0.3946 0.3843	0.3306 0.4325	0.3435 0.5297	Qua2	-0.002	0.3615	0.0023					0.9910		0.9900	
Bromoform	++++ 0.1162 0.2559	0.1206 0.1302	0.1220 0.1491	0.0968 0.1816	0.1154 0.2096	Lin	-0.526	0.2538		0.1000				0.9930		0.9900	
Chlorobenzene	++++ 1.2601 1.3122	3.5474 1.1576	2.6656 1.1645	1.7654 1.2029	1.4463 1.3276	Lin2	0.2426	1.2138		0.3000				0.9900		0.9900	
Ethylbenzene	++++ 1.8434 1.5647	1.7976 1.8204	2.3655 1.9268	1.8498 2.1191	1.9554 2.4213	Ave		1.9664			13.0		15.0				
m-Xylene & p-Xylene	++++ 1.4387 ++++	1.2898 1.4360	1.5583 1.5077	1.3011 1.6918	1.4743 1.8777	Ave		1.5084			12.0		15.0				
1,1,2,2-Tetrachloroethane	++++ 0.4614 0.5093	0.4316 0.4176	0.5660 0.4402	0.4944 0.4652	0.4619 0.4750	Ave		0.4723		0.3000	9.1		15.0				
trans-1,4-Dichloro-2-butene	++++ 0.1042 0.1218	0.0962 0.1060	0.1051 0.1146	0.0939 0.1281	0.1025 0.1329	Ave		0.1105			12.0		15.0				
1,2,3-Trichloropropane	++++ 0.1190 0.1500	0.0982 0.1106	0.1613 0.1147	0.1393 0.1264	0.1228 0.1451	Ave		0.1288			15.0		15.0				
o-Xylene	++++ 1.3789 1.4263	1.2764 1.4425	1.4930 1.5589	1.2760 1.7019	1.3517 2.0015	Ave		1.4907			15.0		15.0				
Styrene	++++ 1.0271 1.5043	0.7241 1.0894	0.8948 1.1708	0.8021 1.3515	0.9442 1.5620	Lin1	-0.188	1.4691						0.9930		0.9900	
tert-Butylbenzene	++++ 1.0592 1.6033	0.7123 1.1043	1.0073 1.1719	0.8282 1.3605	1.0454 1.5250	Lin1	-0.195	1.5193						0.9910		0.9900	
Isopropylbenzene	++++ 1.5173 ++++	1.0836 1.5674	1.4494 1.7004	1.2061 1.9327	1.4614 2.1440	Lin1	-0.197	1.9874						0.9900		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 Tacoma

Job No.: 580-19582-1

Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015

GC Column: ZB-624short ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34

Calibration End Date: 06/07/2010 16:46

Calibration ID: 5119

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
sec-Butylbenzene	++++ 1.6395 1.6580	1.0961 1.7533	1.4966 1.8638	1.2712 2.0743	1.6155 2.3216	Qual	-0.247	2.2570	-0.006					0.9900		0.9900	
Bromobenzene	++++ 0.4191 0.7207	0.3979 0.4214	0.5562 0.4487	0.3988 0.5121	0.4171 0.6249	Qual	-0.016	0.4776	0.0025					0.9980		0.9900	
N-Propylbenzene	++++ 2.2659 ++++	1.7836 2.3506	2.2713 2.4525	1.9233 2.6481	2.2556 2.9393	Ave		2.3211			15.0		15.0				
2-Chlorotoluene	++++ 0.4217 0.6282	0.3293 0.4255	0.4561 0.4446	0.4110 0.4772	0.4417 0.5412	Qua2	-0.008	0.4384	0.0020					0.9970		0.9900	
1,3,5-Trimethylbenzene	++++ 1.3927 1.4490	0.9229 1.4111	1.2577 1.5055	1.1533 1.6287	1.3750 1.8490	Qual	-0.161	1.7559	-0.003					0.9930		0.9900	
4-Chlorotoluene	++++ 0.4388 0.6035	0.3431 0.4304	0.4818 0.4534	0.3859 0.4763	0.4405 0.5456	Lin1	-0.053	0.5625						0.9900		0.9900	
1,2-Dibromo-3-Chloropropane	++++ 0.0460 0.0711	++++ 0.0431	0.0584 0.0514	0.0392 0.0606	0.0452 0.0669	Lin1	-0.013	0.0672						0.9900		0.9900	
1,2,4-Trimethylbenzene	++++ 1.3817 1.4713	0.9367 1.4545	1.1302 1.5732	1.0473 1.7031	1.3007 1.9177	Qual	-0.198	1.8354	-0.003					0.9920		0.9900	
Hexachloroethane	++++ 0.1977 0.3931	0.1874 0.2246	0.2599 0.2465	0.1902 0.2919	0.1861 0.3474	Qual	-0.020	0.2675	0.0013					0.9970		0.9900	
4-Isopropyltoluene	++++ 1.3105 1.6970	0.8347 1.3699	1.0464 1.5137	0.8788 1.7071	1.1400 1.9696	Lin1	-0.203	1.7406						0.9930		0.9900	
1,3-Dichlorobenzene	++++ 0.8256 1.1949	0.7117 0.8508	1.0102 0.8730	0.8185 0.9395	0.9090 1.0887	Ave		0.9222			15.0		15.0				
1,4-Dichlorobenzene	++++ 0.9414 1.1938	1.0276 0.8908	1.2105 0.9088	0.9609 0.9729	1.0242 1.0858	Ave		1.0217			11.0		15.0				
n-Butylbenzene	++++ 0.3074 0.5002	0.2593 0.3373	0.3533 0.3558	0.2755 0.3941	0.3027 0.4425	Qua2	-0.006	0.3303	0.0019					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 Tacoma

Job No.: 580-19582-1

Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015

GC Column: ZB-624short ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34

Calibration End Date: 06/07/2010 16:46

Calibration ID: 5119

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,2-Dichlorobenzene	++++ 0.7842 1.0615	0.7638 0.7718	0.9410 0.8015	0.7825 0.8551	0.8118 0.9449	Ave		0.8518			12.0		15.0				
1,3,5-Trichlorobenzene	++++ 0.5355 0.8334	0.4793 0.5226	0.5997 0.5617	0.4576 0.6267	0.5326 0.7106	Qua2	-0.003	0.5355	0.0032					0.9940		0.9900	
Hexachlorobutadiene	++++ 0.1816 0.2439	0.1713 0.1664	0.1984 0.1842	0.1696 0.2001	0.1941 0.2259	Ave		0.1936			13.0		15.0				
Naphthalene	++++ 0.7357 1.3881	0.5338 0.8598	0.6394 1.0329	0.5974 1.2015	0.6767 1.3112	Lin1	-0.215	1.3130						0.9900		0.9900	
1,2,3-Trichlorobenzene	++++ 0.3862 0.6159	0.3763 0.4127	0.3946 0.4498	0.3348 0.4944	0.3847 0.5543	Qua2	-0.004	0.4056	0.0024					0.9930		0.9900	
1,2,4-Trichlorobenzene	++++ 0.4122 0.7333	0.4257 0.4416	0.4973 0.4860	0.3632 0.5517	0.4337 0.6273	Qua2	-0.001	0.4407	0.0032					0.9910		0.9900	
Fluorobenzene (Surr)	++++ 2.1473 1.9785	2.1432 2.1482	2.1393 2.1105	2.1251 2.0744	2.1092 2.0233	Ave		2.0999			2.8		15.0				
Trifluorotoluene (Surr)	++++ 0.2920 0.4759	0.3025 0.2834	0.3334 0.2802	0.2911 0.3341	0.3016 0.3661	Qua2	0.0032	0.2857	0.0019					0.9970		0.9900	
Toluene-d8 (Surr)	1.0729 1.1604 1.1982	1.1067 1.1507	1.0926 1.1763	1.1144 1.1743	1.1004 1.1548	Ave		1.1365			3.6		15.0				
Ethylbenzene-d10	++++ 0.8006 1.0689	0.7807 0.7999	0.7982 0.8198	0.7745 0.8841	0.7879 0.9383	Ave		0.8453			11.0		15.0				
4-Bromofluorobenzene (Surr)	++++ 0.6145 0.5988	0.5995 0.6601	0.6290 0.6606	0.6166 0.6446	0.6285 0.6506	Ave		0.6303			3.7		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 580-65110/2	I0314405.D
Level 2	STD 580-65110/3	I0314406.D
Level 3	STD 580-65110/4	I0314407.D
Level 4	STD 580-65110/5	I0314408.D
Level 5	STD001 580-65110/6	I0314409.D
Level 6	STD002 580-65110/7	I0314410.D
Level 7	ICIS 580-65110/8	I0314411.D
Level 8	STD010 580-65110/9	I0314412.D
Level 9	STD020 580-65110/10	I0314413.D
Level 10	STD040 580-65110/11	I0314414.D
Level 11	STD100 580-65110/12	I0314415.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
Dichlorodifluoromethane	PFB	Ave	++++ 72028 4276945	4227 187219	8149 334559	15111 787031	37989 1596002	++++ 2.00 100.0	0.1000 5.00	0.200 10.00	0.400 20.0	1.000 40.0
Chloromethane	PFB	Lin1	++++ 79301 3979385	6527 171797	9056 340819	13441 738546	41630 1465340	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Vinyl chloride	PFB	Lin1	334 66891 3871045	4452 166041	7405 318459	14166 710743	35776 1419220	0.0200 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Bromomethane	PFB	Lin	++++ 58955 2657683	4140 147629	7130 265838	14942 585089	28849 1175562	++++ 2.00 99.9	0.0999 5.00	0.200 9.99	0.400 20.0	0.999 40.0
Chloroethane	PFB	Lin	++++ 14163 532792	2602 32179	2544 56173	5032 122110	5938 232000	++++ 2.00 100.0	0.1000 5.00	0.200 10.00	0.400 20.0	1.000 40.0
Trichlorofluoromethane	PFB	Ave	++++ 102822 5626705	5595 256471	11690 482935	20505 1104599	54266 2228178	++++ 2.00 100	0.100 5.01	0.200 10.0	0.401 20.0	1.00 40.1
Acrolein	PFB	Lin1	++++ 27349 1261412	2132 60888	4335 115730	6324 251347	14539 489776	++++ 10.1 504	0.504 25.2	1.01 50.4	2.02 101	5.04 202
1,1-Dichloroethene	PFB	Lin1	++++ 50958 2814142	3386 120231	6422 255823	10354 544647	27913 1138577	++++ 2.02 101	0.101 5.04	0.202 10.1	0.403 20.2	1.01 40.3

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,1,2-Trichloro-1,2,2-trifluoroethane	PFB	Ave	++++ 52211 2925898	3134 124307	5328 251426	9934 553106	27378 1152312	++++ 1.99 99.4	0.0994 4.97	0.199 9.94	0.398 19.9	0.994 39.8
Acetone	PFB	Qual	++++ 43671 1864472	2135 97689	9849 188287	10631 398050	25222 764363	++++ 10.0 500	0.500 25.0	1.00 50.0	2.00 100	5.00 200
Iodomethane	PFB	Qua2	++++ 626112 22226270	32530 1517725	66301 3137724	126132 6596174	327660 13049233	++++ 10.0 501	0.501 25.1	1.00 50.1	2.00 100	5.01 200
2-Methyl-2-propanol	PFB	Lin1	++++ 5992 380102	257 14518	1310 33255	1398 66491	4433 140053	++++ 10.0 500	0.500 25.0	1.00 50.0	2.00 100	5.00 200
Carbon disulfide	PFB	Ave	++++ 137205 8922893	9010 343545	15228 732522	25910 1666529	68266 3475666	++++ 2.02 101	0.101 5.04	0.202 10.1	0.403 20.2	1.01 40.3
Methylene Chloride	PFB	Lin1	++++ 69897 3179404	10122 130149	11606 298100	19205 602798	35983 1252122	++++ 2.03 101	0.101 5.07	0.203 10.1	0.405 20.3	1.01 40.5
1,1-Dichloroethane	PFB	Ave	++++ 80864 5474854	4297 199656	8398 423954	16554 910516	41734 2015885	++++ 2.00 99.8	0.0998 4.99	0.200 9.98	0.399 20.0	0.998 39.9
Vinyl acetate	PFB	Ave	++++ 23949 2036885	1186 57539	2237 119761	4259 286008	11539 591760	++++ 10.1 503	0.503 25.2	1.01 50.3	2.01 101	5.03 201
trans-1,2-Dichloroethene	PFB	Ave	++++ 42715 3071992	2368 99453	4657 218016	8385 474544	21779 1081557	++++ 1.99 99.3	0.0993 4.97	0.199 9.93	0.397 19.9	0.993 39.7
Methyl tert-butyl ether	PFB	Ave	++++ 110337 7289236	5901 261476	10960 527938	22474 1211789	54337 2563208	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Acrylonitrile	PFB	Ave	++++ 60558 3375650	3621 132669	6209 284554	12368 604622	31052 1267344	++++ 10.1 503	0.503 25.1	1.01 50.3	2.01 101	5.03 201
n-Hexane	PFB	Ave	++++ 56000 3635030	2953 129009	6125 275669	11043 614273	28927 1324705	++++ 1.98 99.2	0.0992 4.96	0.198 9.92	0.397 19.8	0.992 39.7
Tert-butyl ethyl ether	PFB	Ave	++++ 45875 3232739	2088 112855	4195 226568	8414 527918	20935 1144783	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
2,2-Dichloropropane	PFB	Ave	++++ 51377 3978643	2894 124691	6486 268491	10125 601309	24393 1356468	++++ 2.00 100	0.100 5.01	0.200 10.0	0.400 20.0	1.00 40.0
2-Butanone	PFB	Lin1	++++ 6580 411422	254 15275	779 30770	1411 70046	3538 146962	++++ 10.0 500	0.500 25.0	1.00 50.0	2.00 100	5.00 200
Chlorobromomethane	PFB	Ave	++++ 27033 2173216	1322 66056	2587 146017	5277 309414	13908 701750	++++ 2.00 100	0.100 5.01	0.200 10.0	0.401 20.0	1.00 40.1
cis-1,2-Dichloroethene	PFB	Ave	++++ 47929 3598012	2250 112890	4608 243142	8750 540896	23856 1222812	++++ 2.00 99.8	0.0998 4.99	0.200 9.98	0.399 20.0	0.998 39.9
Carbon tetrachloride	PFB	Lin1	++++ 50839 4309451	3450 122729	4847 275585	8107 624059	23398 1422603	++++ 2.00 100	0.100 5.01	0.200 10.0	0.400 20.0	1.00 40.0
1,2-Dichloroethane	PFB	Ave	++++ 62362 3961807	3062 146656	6885 312739	13289 661446	32478 1431109	++++ 2.00 100.0	0.1000 5.00	0.200 10.00	0.400 20.0	1.000 40.0
Tert-amyl methyl ether	PFB	Ave	++++ 97528 7786687	5113 255002	10008 531412	18362 1221423	48262 2655247	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Chloroform	PFB	Ave	++++ 80708 5419553	3702 193491	8298 406648	15933 884425	40305 1921531	++++ 2.00 100	0.100 5.01	0.200 10.0	0.400 20.0	1.00 40.0
1,1,1-Trichloroethane	PFB	Ave	++++ 60639 4671878	2906 146613	6360 323637	11117 720783	28666 1614961	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
1,1-Dichloropropene	PFB	Ave	++++ 59658 4346916	3303 146505	6731 309773	11227 688675	31499 1529156	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Benzene	PFB	Ave	++++ 179152 10883256	9941 423854	19445 913039	35192 1943297	88183 4290696	++++ 2.00 100.0	0.1000 5.00	0.200 10.00	0.400 20.0	1.000 40.0
1,2-Dichloropropane	DFB	Ave	++++ 47390 3208570	2699 119680	5292 250119	9941 546124	26009 1209097	++++ 2.01 100	0.100 5.01	0.201 10.0	0.401 20.1	1.00 40.1
1,4-Dioxane	DFB	Lin1	++++ 872 65834	87 2548	124 5040	184 11037	436 23679	++++ 50.1 2504	2.50 125	5.01 250	10.0 501	25.0 1001

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
Dibromomethane	DFB	Ave	++++ 19948 1541299	899 49326	1757 108838	4346 233602	10244 523534	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Dichlorobromomethane	DFB	Lin1	++++ 47162 4035041	1851 121169	4370 270744	8815 620189	22100 1386472	++++ 2.00 100	0.100 5.01	0.200 10.0	0.400 20.0	1.00 40.0
Trichloroethene	DFB	Ave	++++ 40582 3228617	2724 95237	4371 210505	7419 459718	21152 1042693	++++ 2.00 100	0.100 5.01	0.200 10.0	0.400 20.0	1.00 40.0
cis-1,3-Dichloropropene	DFB	Lin1	++++ 53713 4703446	2099 141231	4543 318237	9090 737626	25443 1636904	++++ 1.96 98.2	0.0982 4.91	0.196 9.82	0.393 19.6	0.982 39.3
4-Methyl-2-pentanone	DFB	Ave	++++ 61770 4406217	2306 157227	5134 335077	10780 757918	28514 1570708	++++ 10.0 500	0.500 25.0	1.00 50.0	2.00 100	5.00 200
trans-1,3-Dichloropropene	DFB	Lin	++++ 41635 4201409	1908 112750	4091 269893	6711 612484	19673 1426328	++++ 2.02 101	0.101 5.05	0.202 10.1	0.404 20.2	1.01 40.4
2-Chloroethyl vinyl ether	DFB	Lin1	++++ 119899 8302292	4508 310956	9886 671072	19425 1551842	56280 3338703	++++ 10.1 503	0.503 25.2	1.01 50.3	2.01 101	5.03 201
1,1,2-Trichloroethane	DFB	Ave	++++ 35331 2426042	1854 84831	3435 177613	7024 386863	17478 841661	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Tetrachloroethene	DFB	Qua2	++++ 37124 ++++	1751 102520	3062 235521	6869 534878	19833 1466349	++++ 2.01 ++++	0.100 5.02	0.201 10.0	0.401 20.1	1.00 40.1
1,3-Dichloropropane	DFB	Ave	++++ 58486 4260574	2687 144583	6399 320785	12152 684867	29632 1499817	++++ 2.00 100	0.100 5.01	0.200 10.0	0.401 20.0	1.00 40.1
2-Hexanone	DFB	Lin1	++++ 55138 4088496	2470 143187	4482 303988	8488 701738	23833 1431887	++++ 10.0 500	0.500 25.0	1.00 50.0	2.00 100	5.00 200
Chlorodibromomethane	DFB	Qua2	++++ 27984 3005135	1185 71604	2368 175329	4903 413980	12892 956777	++++ 1.99 99.3	0.0993 4.96	0.199 9.93	0.397 19.9	0.993 39.7
Toluene	DFB	Ave	++++ 179788 9431235	11166 425116	19297 925538	37132 1998757	91111 4490720	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
1,2-Dibromoethane	DFB	Ave	++++ 34035 2344306	1606 80739	3029 180348	6056 384039	15757 847449	++++ 2.00 100	0.100 5.01	0.200 10.0	0.400 20.0	1.00 40.0
1,1,1,2-Tetrachloroethane	DCB	Qua2	++++ 34656 3575274	1703 90226	3306 208691	6548 482586	16390 1210087	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Bromoform	DCB	Lin	++++ 12036 1655294	624 34368	1037 82146	1944 205610	5585 485741	++++ 2.03 102	0.102 5.08	0.203 10.2	0.406 20.3	1.02 40.6
Chlorobenzene	DCB	Lin2	++++ 128288 8345385	18053 300327	22275 630748	34875 1338961	68846 3025355	++++ 2.00 99.8	0.0998 4.99	0.200 9.98	0.399 20.0	0.998 39.9
Ethylbenzene	DCB	Ave	++++ 188420 9991188	9185 474184	19847 1047838	36687 2368236	93453 5539904	++++ 2.00 100	0.100 5.01	0.200 10.0	0.401 20.0	1.00 40.1
m-Xylene & p-Xylene	DCB	Ave	++++ 293590 ++++	13157 746841	26102 1636945	51519 3774857	140673 8577327	++++ 4.00 ++++	0.200 10.0	0.400 20.0	0.800 40.0	2.00 80.0
1,1,2,2-Tetrachloroethane	DCB	Ave	++++ 47066 3245750	2201 108560	4739 238893	9786 518872	22033 1084568	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
trans-1,4-Dichloro-2-butene	DCB	Ave	++++ 53246 3888694	2457 138052	4411 311737	9308 715811	24483 1520807	++++ 10.0 501	0.501 25.1	1.00 50.1	2.00 100	5.01 200
1,2,3-Trichloropropane	DCB	Ave	++++ 12156 957080	501 28793	1352 62339	2761 141149	5861 331656	++++ 2.00 100	0.100 5.01	0.200 10.0	0.400 20.0	1.00 40.0
o-Xylene	DCB	Ave	++++ 140802 9098242	6515 375388	12514 846925	25282 1900093	64537 4574878	++++ 2.00 100	0.100 5.01	0.200 10.0	0.400 20.0	1.00 40.0
Styrene	DCB	Lin1	++++ 105197 9624469	3707 284348	7522 638006	15941 1513424	45214 3581008	++++ 2.01 100	0.100 5.02	0.201 10.0	0.402 20.1	1.00 40.2
tert-Butylbenzene	DCB	Lin1	++++ 108054 10217196	3632 287077	8434 636064	16393 1517399	49864 3482319	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Isopropylbenzene	DCB	Lin1	++++ 154703 ++++	5523 407268	12130 922410	23862 2154558	69667 4893193	++++ 2.00 ++++	0.1000 5.00	0.200 10.00	0.400 20.0	1.000 40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma

Job No.: 580-19582-1

Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015

GC Column: ZB-624short ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34

Calibration End Date: 06/07/2010 16:46

Calibration ID: 5119

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
sec-Butylbenzene	DCB	Qual	++++ 167332 10570571	5592 456024	12538 1012052	25174 2314640	77092 5303889	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Bromobenzene	DCB	Qual	++++ 42991 4618204	2040 110163	4683 244879	7938 574317	20003 1434786	++++ 2.01 101	0.101 5.03	0.201 10.1	0.402 20.1	1.01 40.2
N-Propylbenzene	DCB	Ave	++++ 231148 ++++	9095 611070	19018 1331078	38070 2953516	107583 6711757	++++ 2.00 ++++	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
2-Chlorotoluene	DCB	Qua2	++++ 43212 4021339	1687 111118	3836 242369	8172 534582	21164 1241293	++++ 2.01 100	0.100 5.02	0.201 10.0	0.402 20.1	1.00 40.2
1,3,5-Trimethylbenzene	DCB	Qual	++++ 142208 9242659	4711 367205	10542 817940	22852 1818409	65649 4226290	++++ 2.00 100	0.100 5.01	0.200 10.0	0.400 20.0	1.00 40.0
4-Chlorotoluene	DCB	Lin1	++++ 44877 3855498	1754 112179	4044 246699	7657 532546	21064 1248913	++++ 2.01 100	0.100 5.01	0.201 10.0	0.401 20.1	1.00 40.1
1,2-Dibromo-3-Chloropropane	DCB	Lin1	++++ 4687 452615	++++ 11205	489 27873	776 67532	2156 152591	++++ 2.00 100.0	++++ 5.00	0.200 10.00	0.400 20.0	1.000 40.0
1,2,4-Trimethylbenzene	DCB	Qual	++++ 141017 9380797	4779 378305	9468 854277	20740 1900436	62072 4381035	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Hexachloroethane	DCB	Qual	++++ 20030 2487501	949 57972	2161 132860	3739 323247	8813 787606	++++ 1.99 99.3	0.0993 4.97	0.199 9.93	0.397 19.9	0.993 39.7
4-Isopropyltoluene	DCB	Lin1	++++ 133556 10803478	4252 355764	8753 820748	17378 1902065	54318 4492831	++++ 2.00 99.9	0.0999 5.00	0.200 9.99	0.400 20.0	0.999 40.0
1,3-Dichlorobenzene	DCB	Ave	++++ 84263 7618359	3631 221303	8463 474062	16209 1048396	43378 2487312	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
1,4-Dichlorobenzene	DCB	Ave	++++ 95933 7599558	5235 231349	10126 492732	19000 1084038	48804 2476963	++++ 2.00 99.9	0.0999 5.00	0.200 9.99	0.400 20.0	0.999 40.0
n-Butylbenzene	DCB	Qua2	++++ 31355 3187243	1322 87697	2958 193119	5454 439510	14440 1010510	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
1,2-Dichlorobenzene	DCB	Ave	++++ 80038 6768007	3897 200731	7883 435216	15497 954147	38740 2158790	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
1,3,5-Trichlorobenzene	DCB	Qua2	++++ 54218 5270974	2426 134848	4984 302579	8989 693764	25215 1610441	++++ 1.99 99.3	0.0993 4.96	0.199 9.93	0.397 19.9	0.993 39.7
Hexachlorobutadiene	DCB	Ave	++++ 18533 1554908	874 43288	1662 100014	3359 223279	9264 516054	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Naphthalene	DCB	Lin1	++++ 75164 8859071	2726 223852	5362 561439	11843 1342032	32324 2998408	++++ 2.00 100	0.100 5.01	0.200 10.0	0.401 20.0	1.00 40.1
1,2,3-Trichlorobenzene	DCB	Qua2	++++ 39393 3925102	1919 107295	3304 244101	6627 551434	18348 1265621	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
1,2,4-Trichlorobenzene	DCB	Qua2	++++ 42108 4680171	2174 114985	4170 264179	7200 616284	20717 1434575	++++ 2.00 100	0.100 5.01	0.200 10.0	0.401 20.0	1.00 40.1
Fluorobenzene (Surr)	PFB	Ave	++++ 637308 750918	655648 649544	547886 676971	633271 695397	624221 710704	++++ 5.00 5.00	5.00 5.00	5.00 5.00	5.00 5.00	5.00 5.00
Trifluorotoluene (Surr)	DFB	Qua2	++++ 61427 5972030	3396 153752	6291 313541	12471 764798	32165 1770882	++++ 2.00 100	0.100 5.01	0.200 10.0	0.401 20.0	1.00 40.1
Toluene-d8 (Surr)	DFB	Ave	624460 609984 751499	620827 623909	515200 657794	596526 671780	586547 697801	5.01 5.01 5.01	5.01 5.01	5.01 5.01	5.01 5.01	5.01 5.01
Ethylbenzene-d10	DCB	Ave	++++ 204236 340652	199111 207990	167120 222523	191675 246570	187940 267874	++++ 5.00 5.00	5.00 5.00	5.00 5.00	5.00 5.00	5.00 5.00
4-Bromofluorobenzene (Surr)	DCB	Ave	++++ 157062 191190	153171 171980	131962 179647	152879 180120	150217 186099	++++ 5.01 5.01	5.01 5.01	5.01 5.01	5.01 5.01	5.01 5.01

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qual = Quadratic 1/conc ISTD
Qua2 = Quadratic 1/conc^2 ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Lab Sample ID: ICV 580-65110/15 Calibration Date: 06/07/2010 18:02
 Instrument ID: SEA015 Calib Start Date: 06/07/2010 12:34
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 06/07/2010 16:46
 Lab File ID: I0314418.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	0.6231	0.5486		6.93	7.87	-12.0	25.0
Chloromethane	Lin1		0.5314	0.1000	7.92	7.99	-0.9	25.0
Vinyl chloride	Lin1		0.4933		7.68	7.99	-3.9	25.0
Bromomethane	Lin		0.4504		8.55	7.99	7.0	25.0
Chloroethane	Lin		0.0988		9.15	8.01	14.2	25.0
Trichlorofluoromethane	Ave	0.8650	0.8330		7.63	7.92	-3.7	25.0
Acrolein	Lin1		0.0114		12.4	40.5	-69.3*	40.0
1,1-Dichloroethene	Lin1		0.4553		9.36	7.92	18.2	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.4390	0.4876		8.93	8.04	11.1	40.0
Acetone	Qual		0.0674		8.04	8.01	0.4	25.0
Iodomethane	Qua2		1.007		7.45	7.96	-6.4	40.0
Carbon disulfide	Ave	1.220	1.107		7.25	7.99	-9.3	25.0
Methylene Chloride	Lin1		0.4958		9.04	8.00	13.0	25.0
2-Methyl-2-propanol	Lin1		0.0080		31.5	40.0	-21.2	40.0
Acrylonitrile	Ave	0.0992	0.0831		33.5	39.9	-16.2	40.0
Methyl tert-butyl ether	Ave	0.9292	0.8681		7.47	8.00	-6.6	25.0
trans-1,2-Dichloroethene	Ave	0.3761	0.3797		8.08	8.00	0.9	25.0
1,1-Dichloroethane	Ave	0.7058	0.7018	0.1000	7.93	7.97	-0.6	25.0
Vinyl acetate	Ave	0.0409	0.0459		8.99	8.00	12.3	40.0
Tert-butyl ethyl ether	Ave	0.3799	0.3860		8.13	8.00	1.6	40.0
2,2-Dichloropropane	Ave	0.4659	0.4061		6.97	8.00	-12.8	25.0
2-Butanone	Lin1		0.0112		8.31	8.00	3.9	25.0
cis-1,2-Dichloroethene	Ave	0.4066	0.4110		8.09	8.00	1.1	25.0
Chlorobromomethane	Ave	0.2362	0.2451		8.24	7.94	3.8	25.0
Chloroform	Ave	0.6771	0.6902		8.14	7.99	1.9	25.0
1,1,1-Trichloroethane	Ave	0.5274	0.5435		8.24	8.00	3.1	25.0
1,1-Dichloropropene	Ave	0.5302	0.5301		7.96	7.96	0.0	25.0
Carbon tetrachloride	Lin1		0.4627		7.07	8.00	-11.6	25.0
Benzene	Ave	1.525	1.514		7.95	8.00	-0.7	25.0
1,2-Dichloroethane	Ave	0.5306	0.5003		7.55	8.00	-5.7	25.0
Tert-amyl methyl ether	Ave	0.8777	0.8951		8.16	8.00	2.0	40.0
Trichloroethene	Ave	0.2078	0.1970		7.59	8.01	-5.2	25.0
1,2-Dichloropropane	Ave	0.2409	0.2224		7.39	8.00	-7.7	25.0
1,4-Dioxane	Lin1		0.0001		40.1	160	-74.9*	40.0
Dibromomethane	Ave	0.0989	0.1035		8.26	7.89	4.7	25.0
Dichlorobromomethane	Lin1		0.2496		6.75	8.00	-15.7	25.0
2-Chloroethyl vinyl ether	Lin1		0.0960		6.15	7.96	-22.7	40.0
cis-1,3-Dichloropropene	Lin1		0.2628		6.27	8.41	-25.5*	25.0
4-Methyl-2-pentanone	Ave	0.0578	0.0548		7.53	7.96	-5.3	25.0
Toluene	Ave	0.8774	0.8622		7.87	8.01	-1.7	25.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Lab Sample ID: ICV 580-65110/15 Calibration Date: 06/07/2010 18:02
 Instrument ID: SEA015 Calib Start Date: 06/07/2010 12:34
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 06/07/2010 16:46
 Lab File ID: I0314418.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
trans-1,3-Dichloropropene	Lin		0.2221		6.55	7.60	-13.9	25.0
1,1,2-Trichloroethane	Ave	0.1698	0.1630		7.58	7.89	-4.0	25.0
Tetrachloroethene	Qua2		0.2079		8.33	8.01	4.0	25.0
1,3-Dichloropropane	Ave	0.2920	0.2845		7.76	7.96	-2.6	25.0
2-Hexanone	Lin1		0.0502		6.72	7.85	-14.3	25.0
Chlorodibromomethane	Qua2		0.1499		8.00	7.84	1.9	25.0
1,2-Dibromoethane	Ave	0.1596	0.1597		7.93	7.92	0.1	25.0
Chlorobenzene	Lin2		1.245	0.3000	8.00	8.00	0.1	25.0
1,1,1,2-Tetrachloroethane	Qua2		0.4113		8.49	7.87	7.9	25.0
Ethylbenzene	Ave	1.966	2.088		8.49	8.00	6.2	25.0
m-Xylene & p-Xylene	Ave	1.508	1.619		17.2	16.0	7.3	25.0
o-Xylene	Ave	1.491	1.642		8.72	7.92	10.1	25.0
Styrene	Lin1		1.271		7.03	7.98	-11.9	25.0
Bromoform	Lin		0.1543	0.1000	6.94	8.00	-13.3	25.0
Isopropylbenzene	Lin1		1.687		6.89	8.00	-13.9	25.0
1,1,2,2-Tetrachloroethane	Ave	0.4723	0.4490	0.3000	7.48	7.87	-4.9	25.0
Bromobenzene	Qua1		0.4815		7.75	7.96	-2.7	25.0
trans-1,4-Dichloro-2-butene	Ave	0.1105	0.1178		8.45	7.93	6.5	40.0
1,2,3-Trichloropropane	Ave	0.1288	0.1191		7.29	7.88	-7.5	25.0
N-Propylbenzene	Ave	2.321	2.434		8.40	8.01	4.8	25.0
2-Chlorotoluene	Qua2		0.4837		8.43	7.91	6.6	25.0
1,3,5-Trimethylbenzene	Qua1		1.640		7.57	7.91	-4.3	25.0
4-Chlorotoluene	Lin1		0.4845		6.88	7.88	-12.7	25.0
tert-Butylbenzene	Lin1		1.309		6.95	7.92	-12.2	25.0
1,2,4-Trimethylbenzene	Qua1		1.728		7.75	8.00	-3.1	25.0
sec-Butylbenzene	Qua1		2.022		7.42	8.01	-7.3	25.0
4-Isopropyltoluene	Lin1		1.611		7.48	7.96	-6.0	25.0
1,3-Dichlorobenzene	Ave	0.9222	0.8988		7.79	7.99	-2.5	25.0
1,4-Dichlorobenzene	Ave	1.022	0.9740		7.63	8.00	-4.7	25.0
n-Butylbenzene	Qua2		0.3811		8.81	8.00	10.0	25.0
1,2-Dichlorobenzene	Ave	0.8518	0.8359		7.84	7.99	-1.9	25.0
1,2-Dibromo-3-Chloropropane	Lin1		0.0478		5.89	8.00	-26.4*	25.0
1,2,4-Trichlorobenzene	Qua2		0.5133		8.70	7.94	9.5	25.0
Hexachlorobutadiene	Ave	0.1936	0.2021		8.19	7.85	4.4	25.0
Naphthalene	Lin1		1.079		6.75	8.01	-15.8	25.0
1,2,3-Trichlorobenzene	Qua2		0.4739		8.91	8.02	11.1	25.0
Fluorobenzene (Surr)	Ave	2.100	2.143		5.11	5.00	2.1	25.0
Trifluorotoluene (Surr)	Qua2		0.2940		2.02	2.00	1.0	25.0
Toluene-d8 (Surr)	Ave	1.137	1.153		5.08	5.01	1.5	25.0
Ethylbenzene-d10	Ave	0.8453	0.8468		5.01	5.00	0.2	25.0
4-Bromofluorobenzene (Surr)	Ave	0.6303	0.6687		5.32	5.01	6.1	25.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Lab Sample ID: CCVIS 580-65198/2 Calibration Date: 06/08/2010 11:25
 Instrument ID: SEA015 Calib Start Date: 06/07/2010 12:34
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 06/07/2010 16:46
 Lab File ID: I0314459.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	0.6231	0.5981		4.80	5.00	-4.0	
Chloromethane	Lin1		0.5566	0.1000	5.15	5.00	2.9	
Vinyl chloride	Lin1		0.5252		5.12	5.00	2.2	20.0
Bromomethane	Lin		0.4479		4.71	5.00	-5.7	
Chloroethane	Lin		0.0890		4.25	5.00	-15.0	
Trichlorofluoromethane	Ave	0.8650	0.8184		4.74	5.01	-5.4	
Acrolein	Lin1		0.0379		26.9	25.2	6.7	
1,1-Dichloroethene	Lin1		0.4188		5.44	5.04	8.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.4390	0.4457		5.05	4.97	1.5	
Acetone	Qual		0.0691		27.9	25.0	11.7	
Iodomethane	Qua2		1.002		23.8	25.0	-5.2	
Carbon disulfide	Ave	1.220	1.176		4.85	5.04	-3.7	
Methylene Chloride	Lin1		0.4456		5.00	5.06	-1.3	
2-Methyl-2-propanol	Lin1		0.0148		36.5	25.0	45.9	
Acrylonitrile	Ave	0.0992	0.0940		23.8	25.1	-5.2	
Methyl tert-butyl ether	Ave	0.9292	0.8627		4.64	5.00	-7.2	
trans-1,2-Dichloroethene	Ave	0.3761	0.3690		4.87	4.96	-1.9	
1,1-Dichloroethane	Ave	0.7058	0.6922	0.1000	4.89	4.99	-1.9	
Vinyl acetate	Ave	0.0409	0.0419		25.8	25.2	2.5	
Tert-butyl ethyl ether	Ave	0.3799	0.3738		4.92	5.00	-1.6	
2,2-Dichloropropane	Ave	0.4659	0.4746		5.10	5.00	1.9	
2-Butanone	Lin1		0.0109		25.4	25.0	1.7	
cis-1,2-Dichloroethene	Ave	0.4066	0.4058		4.98	4.99	-0.2	
Chlorobromomethane	Ave	0.2362	0.2314		4.91	5.01	-2.0	
Chloroform	Ave	0.6771	0.6594		4.87	5.00	-2.6	20.0
1,1,1-Trichloroethane	Ave	0.5274	0.5274		5.00	5.00	0.0	
1,1-Dichloropropene	Ave	0.5302	0.5219		4.92	5.00	-1.6	
Carbon tetrachloride	Lin1		0.4450		4.28	5.00	-14.5	
Benzene	Ave	1.525	1.479		4.85	5.00	-3.0	
1,2-Dichloroethane	Ave	0.5306	0.4932		4.65	5.00	-7.0	
Tert-amyl methyl ether	Ave	0.8777	0.8376		4.77	5.00	-4.6	
Trichloroethene	Ave	0.2078	0.2031		4.89	5.00	-2.3	
1,2-Dichloropropane	Ave	0.2409	0.2304		4.79	5.01	-4.4	20.0
1,4-Dioxane	Lin1		0.0002		119	125	-5.0	
Dibromomethane	Ave	0.0989	0.0992		5.01	5.00	0.3	
Dichlorobromomethane	Lin1		0.2328		3.98	5.00	-20.5	
2-Chloroethyl vinyl ether	Lin1		0.1161		22.4	25.2	-10.8	
cis-1,3-Dichloropropene	Lin1		0.2789		3.93	4.91	-20.0	
4-Methyl-2-pentanone	Ave	0.0578	0.0607		26.2	25.0	5.0	
Toluene	Ave	0.8774	0.8689		4.95	5.00	-1.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Lab Sample ID: CCVIS 580-65198/2 Calibration Date: 06/08/2010 11:25
 Instrument ID: SEA015 Calib Start Date: 06/07/2010 12:34
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 06/07/2010 16:46
 Lab File ID: I0314459.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
trans-1,3-Dichloropropene	Lin		0.2171		4.76	5.05	-5.7	
1,1,2-Trichloroethane	Ave	0.1698	0.1645		4.84	5.00	-3.1	
Tetrachloroethene	Qua2		0.1644		4.41	5.02	-12.2	
1,3-Dichloropropane	Ave	0.2920	0.2786		4.78	5.01	-4.6	
2-Hexanone	Lin1		0.0546		22.3	25.0	-11.0	
Chlorodibromomethane	Qua2		0.1403		4.86	4.96	-2.0	
1,2-Dibromoethane	Ave	0.1596	0.1632		5.12	5.00	2.3	
Chlorobenzene	Lin2		1.196	0.3000	4.72	4.99	-5.5	
1,1,1,2-Tetrachloroethane	Qua2		0.3590		4.82	5.00	-3.6	
Ethylbenzene	Ave	1.966	1.970		5.02	5.01	0.2	20.0
m-Xylene & p-Xylene	Ave	1.508	1.536		10.2	10.0	1.8	
o-Xylene	Ave	1.491	1.527		5.13	5.00	2.5	
Styrene	Lin1		1.139		4.02	5.02	-19.9	
Bromoform	Lin		0.1280	0.1000	4.63	5.08	-8.7	
Isopropylbenzene	Lin1		1.712		4.41	5.00	-11.8	
1,1,2,2-Tetrachloroethane	Ave	0.4723	0.4368	0.3000	4.62	5.00	-7.5	
Bromobenzene	Qual		0.4499		4.66	5.03	-7.4	
trans-1,4-Dichloro-2-butene	Ave	0.1105	0.1004		22.7	25.0	-9.2	
1,2,3-Trichloropropane	Ave	0.1288	0.1139		4.43	5.00	-11.6	
N-Propylbenzene	Ave	2.321	2.488		5.36	5.00	7.2	
2-Chlorotoluene	Qua2		0.4657		5.23	5.02	4.2	
1,3,5-Trimethylbenzene	Qual		1.537		4.50	5.00	-10.0	
4-Chlorotoluene	Lin1		0.4672		4.26	5.01	-15.1	
tert-Butylbenzene	Lin1		1.224		4.16	5.00	-16.9	
1,2,4-Trimethylbenzene	Qual		1.577		4.44	5.00	-11.2	
sec-Butylbenzene	Qual		1.936		4.45	5.00	-11.1	
4-Isopropyltoluene	Lin1		1.523		4.49	5.00	-10.2	
1,3-Dichlorobenzene	Ave	0.9222	0.9046		4.91	5.00	-1.9	
1,4-Dichlorobenzene	Ave	1.022	0.9511		4.65	5.00	-6.9	
n-Butylbenzene	Qua2		0.3870		5.69	5.00	13.8	
1,2-Dichlorobenzene	Ave	0.8518	0.8299		4.87	5.00	-2.6	
Hexachloroethane	Qual		0.2201		4.08	4.96	-17.9	
1,2-Dibromo-3-Chloropropane	Lin1		0.0497		3.89	5.00	-22.1	
1,3,5-Trichlorobenzene	Qua2		0.5958		5.36	4.96	7.9	
1,2,4-Trichlorobenzene	Qua2		0.5117		5.59	5.01	11.6	
Hexachlorobutadiene	Ave	0.1936	0.2123		5.49	5.00	9.7	
Naphthalene	Lin1		0.9736		3.88	5.01	-22.6	
1,2,3-Trichlorobenzene	Qua2		0.4601		5.50	5.00	10.0	
Fluorobenzene (Surr)	Ave	2.100	2.127		5.07	5.00	1.3	
Trifluorotoluene (Surr)	Qua2		0.3246		5.48	5.01	9.4	
Toluene-d8 (Surr)	Ave	1.137	1.153		5.08	5.01	1.4	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Lab Sample ID: CCVIS 580-65198/2 Calibration Date: 06/08/2010 11:25
 Instrument ID: SEA015 Calib Start Date: 06/07/2010 12:34
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 06/07/2010 16:46
 Lab File ID: I0314459.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
Ethylbenzene-d10	Ave	0.8453	0.8060		4.77	5.00	-4.6	
4-Bromofluorobenzene (Surr)	Ave	0.6303	0.6527		5.19	5.01	3.6	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-65110/17
 Matrix: Water Lab File ID: I0314420.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 10 (mL) Date Analyzed: 06/07/2010 18:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65110 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
75-35-4	1,1-Dichloroethene	ND		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	ND		0.10	0.10
127-18-4	Tetrachloroethene	ND		0.10	0.10
79-01-6	Trichloroethene	ND		0.10	0.10
75-01-4	Vinyl chloride	ND		0.020	0.020
156-59-2	cis-1,2-Dichloroethene	ND		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	106	80-125	
462-06-6	Fluorobenzene (Surr)	103	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	97	75-120	
2037-26-5	Toluene-d8 (Surr)	93	75-125	
25837-05-2	Ethylbenzene-d10	96	75-125	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-65198/4
 Matrix: Water Lab File ID: I0314461.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 10 (mL) Date Analyzed: 06/08/2010 12:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65198 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
75-35-4	1,1-Dichloroethene	ND		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	ND		0.10	0.10
127-18-4	Tetrachloroethene	ND		0.10	0.10
79-01-6	Trichloroethene	ND		0.10	0.10
75-01-4	Vinyl chloride	ND		0.020	0.020
156-59-2	cis-1,2-Dichloroethene	ND		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	106	80-125	
462-06-6	Fluorobenzene (Surr)	101	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	97	75-120	
2037-26-5	Toluene-d8 (Surr)	96	75-125	
25837-05-2	Ethylbenzene-d10	95	75-125	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-65110/18
 Matrix: Water Lab File ID: I0314421.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 10 (mL) Date Analyzed: 06/07/2010 19:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65110 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
75-35-4	1,1-Dichloroethene	6.59		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	5.34		0.10	0.10
127-18-4	Tetrachloroethene	6.24		0.10	0.10
79-01-6	Trichloroethene	5.02		0.10	0.10
75-01-4	Vinyl chloride	5.55		0.020	0.020
156-59-2	cis-1,2-Dichloroethene	5.20		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	106	80-125	
462-06-6	Fluorobenzene (Surr)	103	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	104	75-120	
2037-26-5	Toluene-d8 (Surr)	99	75-125	
25837-05-2	Ethylbenzene-d10	97	75-125	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-65198/5
 Matrix: Water Lab File ID: I0314462.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 10 (mL) Date Analyzed: 06/08/2010 12:41
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65198 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
75-35-4	1,1-Dichloroethene	6.47		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	5.33		0.10	0.10
127-18-4	Tetrachloroethene	5.82		0.10	0.10
79-01-6	Trichloroethene	5.17		0.10	0.10
75-01-4	Vinyl chloride	5.11		0.020	0.020
156-59-2	cis-1,2-Dichloroethene	5.21		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	112	80-125	
462-06-6	Fluorobenzene (Surr)	101	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	103	75-120	
2037-26-5	Toluene-d8 (Surr)	100	75-125	
25837-05-2	Ethylbenzene-d10	97	75-125	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-65110/19
 Matrix: Water Lab File ID: I0314422.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 10 (mL) Date Analyzed: 06/07/2010 19:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65110 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
75-35-4	1,1-Dichloroethene	6.29		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	5.12		0.10	0.10
127-18-4	Tetrachloroethene	6.68		0.10	0.10
79-01-6	Trichloroethene	5.04		0.10	0.10
75-01-4	Vinyl chloride	5.35		0.020	0.020
156-59-2	cis-1,2-Dichloroethene	5.01		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	104	80-125	
462-06-6	Fluorobenzene (Surr)	103	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	102	75-120	
2037-26-5	Toluene-d8 (Surr)	100	75-125	
25837-05-2	Ethylbenzene-d10	99	75-125	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-65198/6
 Matrix: Water Lab File ID: I0314463.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 10 (mL) Date Analyzed: 06/08/2010 13:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65198 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
75-35-4	1,1-Dichloroethene	5.88		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	5.09		0.10	0.10
127-18-4	Tetrachloroethene	6.12		0.10	0.10
79-01-6	Trichloroethene	4.89		0.10	0.10
75-01-4	Vinyl chloride	4.89		0.020	0.020
156-59-2	cis-1,2-Dichloroethene	5.09		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	106	80-125	
462-06-6	Fluorobenzene (Surr)	99	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	101	75-120	
2037-26-5	Toluene-d8 (Surr)	99	75-125	
25837-05-2	Ethylbenzene-d10	94	75-125	

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1

SDG No.: _____

Instrument ID: SEA015 Start Date: 06/07/2010 12:09Analysis Batch Number: 65110 End Date: 06/08/2010 00:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-65110/1		06/07/2010 12:09	1	I0314404.D	ZB-624short 0.18 (mm)
STD 580-65110/2 IC		06/07/2010 12:34	1	I0314405.D	ZB-624short 0.18 (mm)
BFB 580-65110/37		06/07/2010 12:34	1	I0314405BFB.D	ZB-624short 0.18 (mm)
STD 580-65110/3 IC		06/07/2010 13:00	1	I0314406.D	ZB-624short 0.18 (mm)
STD 580-65110/4 IC		06/07/2010 13:25	1	I0314407.D	ZB-624short 0.18 (mm)
STD 580-65110/5 IC		06/07/2010 13:50	1	I0314408.D	ZB-624short 0.18 (mm)
STD001 580-65110/6 IC		06/07/2010 14:15	1	I0314409.D	ZB-624short 0.18 (mm)
STD002 580-65110/7 IC		06/07/2010 14:40	1	I0314410.D	ZB-624short 0.18 (mm)
ICIS 580-65110/8		06/07/2010 15:05	1	I0314411.D	ZB-624short 0.18 (mm)
STD010 580-65110/9 IC		06/07/2010 15:30	1	I0314412.D	ZB-624short 0.18 (mm)
STD020 580-65110/10 IC		06/07/2010 15:56	1	I0314413.D	ZB-624short 0.18 (mm)
STD040 580-65110/11 IC		06/07/2010 16:21	1	I0314414.D	ZB-624short 0.18 (mm)
STD100 580-65110/12 IC		06/07/2010 16:46	1	I0314415.D	ZB-624short 0.18 (mm)
ICV 580-65110/15		06/07/2010 18:02	1	I0314418.D	ZB-624short 0.18 (mm)
MB 580-65110/17		06/07/2010 18:52	1	I0314420.D	ZB-624short 0.18 (mm)
LCS 580-65110/18		06/07/2010 19:17	1	I0314421.D	ZB-624short 0.18 (mm)
LCSD 580-65110/19		06/07/2010 19:42	1	I0314422.D	ZB-624short 0.18 (mm)
580-19582-4	Trip Blank	06/07/2010 20:33	1	I0314424.D	ZB-624short 0.18 (mm)
ZZZZZ		06/07/2010 20:58	1		ZB-624short 0.18 (mm)
ZZZZZ		06/07/2010 21:24	1		ZB-624short 0.18 (mm)
ZZZZZ		06/07/2010 21:49	1		ZB-624short 0.18 (mm)
ZZZZZ		06/07/2010 22:14	1		ZB-624short 0.18 (mm)
ZZZZZ		06/07/2010 22:40	1		ZB-624short 0.18 (mm)
ZZZZZ		06/07/2010 23:05	1		ZB-624short 0.18 (mm)
ZZZZZ		06/07/2010 23:31	1		ZB-624short 0.18 (mm)
ZZZZZ		06/07/2010 23:56	1		ZB-624short 0.18 (mm)
ZZZZZ		06/08/2010 00:22	1		ZB-624short 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1

SDG No.: _____

Instrument ID: SEA015 Start Date: 06/08/2010 11:00

Analysis Batch Number: 65198 End Date: 06/08/2010 14:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-65198/1		06/08/2010 11:00	1	I0314458.D	ZB-624short 0.18 (mm)
CCVIS 580-65198/2		06/08/2010 11:25	1	I0314459.D	ZB-624short 0.18 (mm)
MB 580-65198/4		06/08/2010 12:15	1	I0314461.D	ZB-624short 0.18 (mm)
LCS 580-65198/5		06/08/2010 12:41	1	I0314462.D	ZB-624short 0.18 (mm)
LCSD 580-65198/6		06/08/2010 13:06	1	I0314463.D	ZB-624short 0.18 (mm)
580-19582-1	MW4-052510-W	06/08/2010 13:57	1	I0314465.D	ZB-624short 0.18 (mm)
580-19582-2	MW9-052510-W	06/08/2010 14:22	1	I0314466.D	ZB-624short 0.18 (mm)
580-19582-3	MW13-052510-W	06/08/2010 14:47	1	I0314467.D	ZB-624short 0.18 (mm)

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Tacoma Job Number: 580-19582-1

SDG No.: _____

Project: 318 State, City of Olympia

Client Sample ID	Lab Sample ID
<u>MW4-052510-W</u>	<u>580-19582-1</u>
<u>MW9-052510-W</u>	<u>580-19582-2</u>
<u>MW13-052510-W</u>	<u>580-19582-3</u>

Comments:

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: MW4-052510-W

Lab Sample ID: 580-19582-1

Lab Name: TestAmerica Tacoma

Job No.: 580-19582-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/25/2010 10:04

Reporting Basis: WET

Date Received: 05/25/2010 12:30

CAS No.	Analyte	Conc.	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0045	0.00040		mg/L		^	1	6020

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: MW9-052510-W

Lab Sample ID: 580-19582-2

Lab Name: TestAmerica Tacoma

Job No.: 580-19582-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/25/2010 08:54

Reporting Basis: WET

Date Received: 05/25/2010 12:30

CAS No.	Analyte	Conc.	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0016	0.00040		mg/L		^	1	6020

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: MW13-052510-W

Lab Sample ID: 580-19582-3

Lab Name: TestAmerica Tacoma

Job No.: 580-19582-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/25/2010 07:40

Reporting Basis: WET

Date Received: 05/25/2010 12:30

CAS No.	Analyte	Conc.	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0041	0.00040		mg/L		^	1	6020

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1

SDG No.: _____

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	ICV 580-65242/7 06/08/2010 10:41				CCV 580-65242/12 06/08/2010 11:38				CCV 580-65242/24 06/08/2010 13:04			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.0403		0.0400	101	0.0495		0.0500	99	0.0497		0.0500	99

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 Tacoma Job No.: 580-19582-1

SDG No.: _____

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	CCV 580-65242/34 06/08/2010 14:23											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.0487		0.0500	97								

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 Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Analysis Method: 6020 Instrument ID: SEA044
 Lab Sample ID: CRI 580-65242/9 Concentration Units: mg/L
 CRQL Check Standard Source: ICP-MS CCV_00004

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	0.00200	0.00198		99	50-150

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

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1

SDG No.: _____

Concentration Units: mg/L

Analyte	RL	ICB 580-65242/8 06/08/2010 10:48		CCB 580-65242/13 06/08/2010 11:45		CCB 580-65242/25 06/08/2010 13:11		CCB 580-65242/35 06/08/2010 14:30	
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.00040	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
SDG No.: _____
Concentration Units: mg/L Lab Sample ID: MB 580-65117/21-A
Instrument Code: SEA044 Batch No.: 65242

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	ND		^	6020

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma

Job No.: 580-19582-1

SDG No.: _____

Lab Sample ID: ICSA 580-65242/10

Instrument ID: SEA044

Lab File ID: 015SMPL.D

ICS Source: ICPMS- ICSA_00001

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		0.0004	
Aluminum	100	91.5	91
Antimony		0.0006	
Barium		0.0004	
Beryllium		0.0000	
Cadmium		0.0002	
Calcium	300	283	94
Chromium		0.0011	
Cobalt		0.0034	
Copper		0.0035	
Iron	250	233	93
Lead		0.0003	
Magnesium	100	92.5	93
Manganese		0.0055	
Mercury		-0.0011	
Molybdenum	2.00	2.00	100
Nickel		0.0025	
Phosphorus	100	99.7	100
Potassium	100	93.3	93
Selenium		0.0000	
Silver		0.0002	
Sodium	250	241	97
Strontium		0.0164	
Thallium		0.0001	
Tin		0.0001	
Titanium	2.00	1.94	97
Uranium		0.0000	
Vanadium		-0.0001	
Zinc		0.0033	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma

Job No.: 580-19582-1

SDG No.: _____

Lab Sample ID: ICSAB 580-65242/11

Instrument ID: SEA044

Lab File ID: 016SMPL.D

ICS Source: ICPMS- ICSA_00001

Concentration Units: mg/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	0.100	0.105	105
Aluminum	100	92.3	92
Antimony		0.0007	
Barium		0.0004	
Beryllium		0.0000	
Cadmium	0.100	0.105	105
Calcium	300	282	94
Chromium	0.200	0.196	98
Cobalt	0.200	0.197	98
Copper	0.200	0.187	93
Iron	250	237	95
Lead		0.0003	
Magnesium	100	94.0	94
Manganese	0.200	0.198	99
Mercury		-0.0012	
Molybdenum	2.00	2.06	103
Nickel	0.200	0.193	96
Phosphorus	100	99.8	100
Potassium	100	94.4	94
Selenium	0.100	0.105	105
Silver	0.0500	0.0505	101
Sodium	250	242	97
Strontium		0.0165	
Thallium		0.0000	
Tin		0.0001	
Titanium	2.00	1.92	96
Uranium		0.0000	
Vanadium	0.200	0.202	101
Zinc	0.100	0.0975	98

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 Tacoma

Job No.: 580-19582-1

SDG No.: _____

Lab Sample ID: ICSAB 580-65242/11

Instrument ID: SEA044

Lab File ID: 016SMPL.D

ICS Source: ICPMS-ICSB_00001

Concentration Units: mg/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	0.100	0.105	105
Aluminum	100	92.3	92
Antimony		0.0007	
Barium		0.0004	
Beryllium		0.0000	
Cadmium	0.100	0.105	105
Calcium	300	282	94
Chromium	0.200	0.196	98
Cobalt	0.200	0.197	98
Copper	0.200	0.187	93
Iron	250	237	95
Lead		0.0003	
Magnesium	100	94.0	94
Manganese	0.200	0.198	99
Mercury		-0.0012	
Molybdenum	2.00	2.06	103
Nickel	0.200	0.193	96
Phosphorus	100	99.8	100
Potassium	100	94.4	94
Selenium	0.100	0.105	105
Silver	0.0500	0.0505	101
Sodium	250	242	97
Strontium		0.0165	
Thallium		0.0000	
Tin		0.0001	
Titanium	2.00	1.92	96
Uranium		0.0000	
Vanadium	0.200	0.202	101
Zinc	0.100	0.0975	98

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

FORM IVA-IN

7A-IN
 LAB CONTROL SAMPLE
 METALS - TOTAL RECOVERABLE

Lab ID: LCS 580-65117/22-A

Lab Name: TestAmerica Tacoma

Job No.: 580-19582-1

Sample Matrix: Water

LCS Source: m-GPS-1_00015

Analyte	Water (mg/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	4.00	3.89		97	80	120	^	6020

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

FORM VIIA - IN

7D-IN
 LAB CONTROL SAMPLE DUPLICATE
 METALS - TOTAL RECOVERABLE

Lab ID: LCSD 580-65117/23-A

Lab Name: TestAmerica Tacoma

Job No.: 580-19582-1

Sample Matrix: Water

LCS Source: m-GPS-1_00015

Analyte	(SDR) C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	3.87	4.00	97	80-120	0	20	^	6020

SDR = Spike Duplicate Results

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

FORM VIID - IN

7A-IN
 LCS-STANDARD REFERENCE MATERIAL
 METALS - TOTAL RECOVERABLE

Lab ID: LCSSRM 580-65117/24-A

Lab Name: TestAmerica Tacoma

Job No.: 580-19582-1

Sample Matrix: Water

LCS Source: m-GPS-1_00015

Analyte	Water (mg/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	4.00	3.84		96	80	120	^	6020

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

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Tacoma Job Number: 580-19582-1
SDG Number: _____
Matrix: Water Instrument ID: SEA044
Analysis Method: 6020 RL Date: 06/21/2007 12:07
Prep Method: 3005A
Leach Method: _____

Analyte	Wavelength/ Mass	RL (mg/L)	
Arsenic		0.0004	

11-IN
ICP-AES AND ICP-MS LINEAR RANGES
METALS

Lab Name: TestAmerica Tacoma

Job No: 580-19582-1

SDG No.: _____

Instrument ID: SEA044

Date: 04/01/2007 10:29

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Arsenic		5	6020

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1

SDG No.: _____

Preparation Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
580-19582-1	06/07/2010 11:41	65117		50	50
580-19582-2	06/07/2010 11:41	65117		50	50
580-19582-3	06/07/2010 11:41	65117		50	50
MB 580-65117/21-A	06/07/2010 11:41	65117		50	50
LCS 580-65117/22-A	06/07/2010 11:41	65117		50	50
LCSD 580-65117/23-A	06/07/2010 11:41	65117		50	50
LCSSRM 580-65117/24-A	06/07/2010 11:43	65117		50	50

13-IN
 ANALYSIS RUN LOG
 METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1

SDG No.: _____

Instrument ID: SEA044 Method: 6020

Start Date: 06/08/2010 09:44 End Date: 06/08/2010 15:49

Lab Sample ID	D / F	Type	Time	Analytes															
				A	S														
STD0 580-65242/1 IC			09:44	X															
STD1 580-65242/2 IC			09:51	X															
STD2 580-65242/3 IC			09:58	X															
STD3 580-65242/4 IC			10:05	X															
STD4 580-65242/5 IC			10:12	X															
STD5 580-65242/6 IC			10:19	X															
ICV 580-65242/7	1		10:41	X															
ICB 580-65242/8	1		10:48	X															
CRI 580-65242/9	1		11:02	X															
ICSA 580-65242/10	1		11:09	X															
ICSAB 580-65242/11	1		11:17	X															
CCV 580-65242/12	1		11:38	X															
CCB 580-65242/13	1		11:45	X															
MB 580-65117/21-A	1	R	11:52	X															
ZZZZZZ			12:00																
ZZZZZZ			12:07																
ZZZZZZ			12:14																
ZZZZZZ			12:21																
ZZZZZZ			12:28																
ZZZZZZ			12:35																
LCS 580-65117/22-A	50	R	12:42	X															
LCSD 580-65117/23-A	50	R	12:50	X															
LCSSRM 580-65117/24-A	50	R	12:57	X															
CCV 580-65242/24	1		13:04	X															
CCB 580-65242/25	1		13:11	X															
ZZZZZZ			13:18																
ZZZZZZ			13:26																
ZZZZZZ			13:33																
ZZZZZZ			13:40																
ZZZZZZ			13:47																
580-19582-1	1	R	13:54	X															
580-19582-2	1	R	14:01	X															
580-19582-3	1	R	14:09	X															
CCV 580-65242/34	1		14:23	X															
CCB 580-65242/35	1		14:30	X															
ZZZZZZ			14:37																
ZZZZZZ			14:45																
ZZZZZZ			14:52																
ZZZZZZ			14:59																
ZZZZZZ			15:06																
ZZZZZZ			15:13																
ZZZZZZ			15:20																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1

SDG No.: _____

Instrument ID: SEA044 Method: 6020

Start Date: 06/08/2010 09:44 End Date: 06/08/2010 15:49

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				A	S																
ZZZZZZ			15:28																		
CCV 580-65242/44			15:42																		
CCB 580-65242/45			15:49																		

Prep Types

R = Total Recoverable

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1

SDG No.: _____

ICP-MS Instrument ID: SEA044 Start Date: 06/08/2010 End Date: 06/08/2010

Lab Sample ID	Time	Internal Standards %RI For:											
		Element Li	Q	Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q		
ICV 580-65242/7	10:41	93		93		99		106		102			
ICB 580-65242/8	10:48	93		93		100		107		103			
CRI 580-65242/9	11:02			92		100		108		104			
ICSA 580-65242/10	11:09	70		72		88		91		87			
ICSAB 580-65242/11	11:17	66		67		81		86		80			
CCV 580-65242/12	11:38	72		74		87		98		93			
CCB 580-65242/13	11:45	74		76		90		100		96			
MB 580-65117/21-A	11:52					91		101					
LCS 580-65117/22-A	12:42					94		104					
LCSD 580-65117/23-A	12:50					95		103					
LCSSRM	12:57					94		104					
CCV 580-65242/24	13:04	80		80		97		105		102			
CCB 580-65242/25	13:11	80		81		96		107		103			
580-19582-1	13:54					78		85					
580-19582-2	14:01					78		84					
580-19582-3	14:09					79		86					
CCV 580-65242/34	14:23	79		81		100		108		108			
CCB 580-65242/35	14:30	83		85		104		113		111			

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1

SDG No.: _____

ICP-MS Instrument ID: SEA044 Start Date: 06/08/2010 End Date: 06/08/2010

Lab Sample ID	Time	Internal Standards %RI For:											
		Element Ge	Q	Element Ge	Q	Element Rh	Q	Element Rh	Q	Element Ho	Q		
ICV 580-65242/7	10:41	104		102		102		99		104			
ICB 580-65242/8	10:48	107		102		105		102		105			
CRI 580-65242/9	11:02	107				106		104		104			
ICSA 580-65242/10	11:09	88		86		78		79		91			
ICSAB 580-65242/11	11:17	84		83		75		78		91			
CCV 580-65242/12	11:38	100		94		96		95		103			
CCB 580-65242/13	11:45	102		95		101		100		104			
MB 580-65117/21-A	11:52					102		99		104			
LCS 580-65117/22-A	12:42					101		99		104			
LCSD 580-65117/23-A	12:50					101		98		103			
LCSSRM	12:57					102		98		104			
CCV 580-65242/24	13:04	106		99		100		98		105			
CCB 580-65242/25	13:11	110		98		106		99		105			
580-19582-1	13:54					84		81		95			
580-19582-2	14:01					84		81		95			
580-19582-3	14:09					84		81		96			
CCV 580-65242/34	14:23	109		99		101		97		104			
CCB 580-65242/35	14:30	113		99		106		102		103			

15-IN
 ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
 METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1

SDG No.: _____

ICP-MS Instrument ID: SEA044 Start Date: 06/08/2010 End Date: 06/08/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Lu	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
ICV 580-65242/7	10:41	103		99							
ICB 580-65242/8	10:48	103		103							
CRI 580-65242/9	11:02	105									
ICSA 580-65242/10	11:09	91		81							
ICSAB 580-65242/11	11:17	91		81							
CCV 580-65242/12	11:38	101		100							
CCB 580-65242/13	11:45	103		102							
MB 580-65117/21-A	11:52	103									
LCS 580-65117/22-A	12:42	104									
LCSD 580-65117/23-A	12:50	104									
LCSSRM	12:57	103									
CCV 580-65242/24	13:04	105		101							
CCB 580-65242/25	13:11	104		105							
580-19582-1	13:54	95									
580-19582-2	14:01	96									
580-19582-3	14:09	98									
CCV 580-65242/34	14:23	104		100							
CCB 580-65242/35	14:30	104		105							

Metals Worksheet

Batch Number: 580-65117

Method: 3005A

Analyst: Boardway, Peter A

Date Open: Jun 07 2010 11:41AM

Batch End: Jun 07 2010 3:55PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	m-GPS-1_00015	m-GPS-2_00012	m-GPS-3_00013	m-GPS-4_00015
580-19562-H-1			R	50 mL	50 mL				
580-19562-H-1~DU			R	50 mL	50 mL				
580-19562-H-1~MS			R	50 mL	50 mL	1 mL	1 mL	1 mL	1 mL
580-19562-H-1~MSD			R	50 mL	50 mL	1 mL	1 mL	1 mL	1 mL
580-19562-H-2			R	50 mL	50 mL				
580-19562-H-3			R	50 mL	50 mL				
580-19562-H-4			R	50 mL	50 mL				
580-19562-H-5			R	50 mL	50 mL				
580-19562-H-7			R	50 mL	50 mL				
580-19582-A-1	MW4-052510-W	3005A, 6020	R	50 mL	50 mL				
580-19582-A-2	MW9-052510-W	3005A, 6020	R	50 mL	50 mL				
580-19582-A-3	MW13-052510-W	3005A, 6020	R	50 mL	50 mL				
580-19747-G-1			R	50 mL	50 mL				
580-19747-G-2			R	50 mL	50 mL				
580-19747-G-3			R	50 mL	50 mL				
580-19747-G-4			R	50 mL	50 mL				
580-19585-A-1			R	50 mL	50 mL				
580-19658-A-3			R	50 mL	50 mL				
580-19658-A-4			R	50 mL	50 mL				
580-19739-F-1			R	50 mL	50 mL				
MB~580-65117/21		3005A, 6020		50 mL	50 mL				
LCS~580-65117/22		3005A, 6020		50 mL	50 mL	1 mL	1 mL	1 mL	1 mL
LCSD~580-65117/23		3005A, 6020		50 mL	50 mL	1 mL	1 mL	1 mL	1 mL
LCSSRM~580-65117/24		3005A, 6020		50 mL	50 mL	1 mL	1 mL	1 mL	1 mL

Metals Worksheet

Batch Number: 580-65117

Method: 3005A

Analyst: Boardway, Peter A

Date Open: Jun 07 2010 11:41AM

Batch End: Jun 07 2010 3:55PM

Lab ID	Client ID	Method Chain	Basis	MS-HgSpk_00008
580-19562-H-1			R	
580-19562-H-1~DU			R	
580-19562-H-1~MS			R	1 mL
580-19562-H-1~MSD			R	1 mL
580-19562-H-2			R	
580-19562-H-3			R	
580-19562-H-4			R	
580-19562-H-5			R	
580-19562-H-7			R	
580-19582-A-1	MW4-052510-W	3005A, 6020	R	
580-19582-A-2	MW9-052510-W	3005A, 6020	R	
580-19582-A-3	MW13-052510-W	3005A, 6020	R	
580-19747-G-1			R	
580-19747-G-2			R	
580-19747-G-3			R	
580-19747-G-4			R	
580-19585-A-1			R	
580-19658-A-3			R	
580-19658-A-4			R	
580-19739-F-1			R	
MB~580-65117/21		3005A, 6020		
LCS~580-65117/22		3005A, 6020		1 mL
LCSD~580-65117/23		3005A, 6020		1 mL
LCSSRM~580-65117/24		3005A, 6020		1 mL

Digestion Tube/Cup Lot #: 100121
 Hot Block ID number: 38009
 Hood ID or number: 06
 Lot # of Nitric Acid: H42A18
 Lot # of hydrochloric acid: J10024
 Oven, Bath or Block Temperature 1: 94.9 CORRECTED-TEMP
 ID number of the thermometer: 15-041-1A-A
 Pipette ID: mp1

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job Number: 580-19582-1

SDG No.: _____

Project: 318 State, City of Olympia

Client Sample ID	Lab Sample ID
<u>MW4-052510-W</u>	<u>580-19582-1</u>
<u>MW9-052510-W</u>	<u>580-19582-2</u>
<u>MW13-052510-W</u>	<u>580-19582-3</u>

Comments:

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: MW4-052510-W

Lab Sample ID: 580-19582-1

Lab Name: TestAmerica Tacoma

Job No.: 580-19582-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/25/2010 10:04

Reporting Basis: WET

Date Received: 05/25/2010 12:30

CAS No.	Analyte	Conc.	RL		Units	C	Q	DIL	Method
14808-79-8	Sulfate	6.7	1.2		mg/L			1	300.0

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: MW9-052510-W

Lab Sample ID: 580-19582-2

Lab Name: TestAmerica Tacoma

Job No.: 580-19582-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/25/2010 08:54

Reporting Basis: WET

Date Received: 05/25/2010 12:30

CAS No.	Analyte	Conc.	RL		Units	C	Q	DIL	Method
14808-79-8	Sulfate	9.1	1.2		mg/L			1	300.0

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: MW13-052510-W

Lab Sample ID: 580-19582-3

Lab Name: TestAmerica Tacoma

Job No.: 580-19582-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/25/2010 07:40

Reporting Basis: WET

Date Received: 05/25/2010 12:30

CAS No.	Analyte	Conc.	RL		Units	C	Q	DIL	Method
14808-79-8	Sulfate	6.0	1.2		mg/L			1	300.0

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Analyst: KT Batch Start Date: 05/27/2010
 Reporting Units: mg/L Analytical Batch No.: 64608

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	15:07	Sulfate	5.87	6.00	98	90-110		IC-2 ICV/LCS_00004
2	ICB	15:23	Sulfate	ND					
10	CCV	18:26	Sulfate	6.02	6.00	100	90-110		IC-2 CCV_00002
11	CCB	18:43	Sulfate	ND					
18	CCV	20:39	Sulfate	6.02	6.00	100	90-110		IC-2 CCV_00002
19	CCB	20:56	Sulfate	ND					

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

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 64608 Date: 05/27/2010 15:40							
300.0	MB 580-64608/3	Sulfate	ND		mg/L	1.2	1

7A-IN
 LAB CONTROL SAMPLE
 GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1
 SDG No.: _____
 Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 64608		Date: 05/27/2010 15:57									
						LCS Source: IC-2 ICV/LCS_00004					
300.0	LCS 580-64608/4	Sulfate	5.82		mg/L	6.00	97	90-110			

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

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job Number: 580-19582-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Analysis Method: 300.0 RL Date: 09/24/2009 08:59
Prep Method: _____
Leach Method: _____

Analyte	Wavelength/ Mass	RL (mg/L)	
Sulfate		1.2	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job No.: 580-19582-1

SDG No.: _____

Instrument ID: NOEQUIP Method: 300.0

Start Date: 05/27/2010 15:07 End Date: 05/27/2010 20:56

Lab Sample ID	D / F	T y p e	Time	Analytes															
				S O 4															
ICV 580-64608/1	1		15:07	X															
ICB 580-64608/2	1		15:23	X															
MB 580-64608/3	1	T	15:40	X															
LCS 580-64608/4	1	T	15:57	X															
ZZZZZZ			16:13																
ZZZZZZ			16:30																
ZZZZZZ			16:46																
ZZZZZZ			17:36																
ZZZZZZ			17:53																
CCV 580-64608/10	1		18:26	X															
CCB 580-64608/11	1		18:43	X															
580-19582-1	1	T	19:00	X															
580-19582-2	1	T	19:16	X															
580-19582-3	1	T	19:33	X															
ZZZZZZ			19:49																
ZZZZZZ			20:06																
ZZZZZZ			20:23																
CCV 580-64608/18	1		20:39	X															
CCB 580-64608/19	1		20:56	X															

Prep Types

T = Total/NA

General Chemistry Worksheet

Batch Number: 580-64608

Date Open: May 27 2010 3:07PM

Method: 300.0

Batch End: May 27 2010 8:56PM

Analyst: Teffeau, Kristine

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	IC-2 CCV_00002	IC-2 ICV/LCS_00004
ICV~580-64608/1		300.0		5 mL	5 mL		5 mL
ICB~580-64608/2		300.0		5 mL	5 mL		
MB~580-64608/3		300.0		5 mL	5 mL		
LCS~580-64608/4		300.0		5 mL	5 mL		5 mL
580-19562-G-1			T	5 mL	5 mL		
580-19562-G-1~DU			T	5 mL	5 mL		
580-19562-G-1~MS			T	5 mL	5 mL		5 mL
580-19562-G-4			T	5 mL	5 mL		
580-19562-G-5			T	5 mL	5 mL		
CCV~580-64608/10		300.0		5 mL	5 mL	5 mL	
CCB~580-64608/11		300.0		5 mL	5 mL		
580-19582-B-1	MW4-052510-W	300.0	T	5 mL	5 mL		
580-19582-B-2	MW9-052510-W	300.0	T	5 mL	5 mL		
580-19582-B-3	MW13-052510-W	300.0	T	5 mL	5 mL		
580-19562-G-2			T	2.5 mL	5 mL		
580-19562-G-3			T	2.5 mL	5 mL		
580-19562-G-7			T	2.5 mL	5 mL		
CCV~580-64608/18		300.0		5 mL	5 mL	5 mL	
CCB~580-64608/19		300.0		5 mL	5 mL		

Filter Lot #: roba88275

Eluent 1 Lot: 090721

Regeneration Solution Lot: na

Ethylenediamine Lot: na

ANALYTICAL REPORT

Job Number: 580-19562-1

Job Description: 318 State Ave, Olympia, WA

For:

GeoEngineers Inc
1101 Fawcett, Suite 200
Tacoma, WA 98402

Attention: Iain Wingard



Approved for release.
Kate Haney
Project Manager II
6/16/2010 5:10 PM

Kate Haney
Project Manager II
kate.haney@testamericainc.com
06/16/2010

cc: Nick Rohrbach

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This report shall not be reproduced except in full, without prior express written approval by the laboratory. The results relate only to the item(s) tested and the sample(s) as received by the laboratory.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted in the case narrative.

TestAmerica Laboratories, Inc.

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Job Narrative
580-19562-1

COMMENTS

The report has been revised to include the seven cPAHs per the client's request.

RECEIPT

The samples were received on 05/26/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the temperature blanks in each cooler at receipt was 3.0, 3.5, 3.6 and 4.2 C.

One sodium thiosulfate vial for the following sample was received empty: MW3-052410-W. There was enough sample volume in the containers provided to run all requested analyses.

ANIONS

Samples 580-19562-1 through 580-19562-5 and 580-19562-7 were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 05/27/2010.

Samples 580-19562-2(2X), 580-19562-3(2X) and 580-19562-7(2X) required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

TOTAL METALS

Samples 580-19562-1 through 580-19562-5 and 580-19562-7 were analyzed for total metals in accordance with EPA SW-846 Method 6020. The samples were prepared on 06/07/2010 and analyzed on 06/08/2010.

The ICP-MS ICSA standard fell outside the control criteria for arsenic. The standard contains trace impurities derived from the manufacturing process, which may cause these standards to fail method QC criteria. Regrettably corrective action can not be performed for any outliers other than to note deficiencies in the laboratory's QC report section. The associated samples were qualified "^" and reported.

No other difficulties were encountered during the total metals analyses.

All other quality control parameters were within the acceptance limits.

1,2-DIBROMOETHANE

Samples 580-19562-1 through 580-19562-7 were analyzed for 1,2-dibromoethane in accordance with EPA SW-846 Method 8011. The samples were prepared on 05/26/2010 and analyzed on 05/27/2010.

The continuing calibration verification (CCV for analytical batch 64510 exceeded control criteria for EDB. The associated client samples were non-detect (ND) at the reporting limit (RL) for the affected analyte; therefore the data was qualified "^" and reported.

No other difficulties were encountered during the EDB analyses.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples 580-19562-1 through 580-19562-5 and 580-19562-7 were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 05/26/2010 and analyzed on 06/01/2010.

No difficulties were encountered during the PCBs analyses.

All quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS) LOW LEVEL

Samples 580-19562-1 through 580-19562-7 were analyzed for volatile organic compounds (GC-MS) low level in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/07/2010 and 06/08/2010.

Sample 580-19562-7 was analyzed 22 minutes outside of the 14 day analytical hold time. The affected data has been flagged "H" and reported.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

POLYCYCLIC AROMATIC HYDROCARBONS (PAHS)

Samples 580-19562-1 through 580-19562-5 and 580-19562-7 were analyzed for polycyclic aromatic hydrocarbons (PAHs) in accordance with EPA SW-846 Method 8270C SIM. The samples were prepared on 05/26/2010 and analyzed on 06/07/2010.

No difficulties were encountered during the semivolatiles analyses.

All quality control parameters were within the acceptance limits.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples 580-19562-1 through 580-19562-5 and 580-19562-7 were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 05/27/2010 and analyzed on 06/02/2010.

No difficulties were encountered during the diesel and motor oil range organics analyses.

All quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS (GRO)

Samples 580-19562-1 through 580-19562-7 were analyzed for gasoline range organics (GRO) in accordance with Method NWTPH-Gx. The samples were analyzed on 06/04/2010.

The instrument blank for analytical batch 65017 contained GRO greater than the reporting limit (RL). The sample in the run sequence immediately following the instrument blank was ND; therefore the samples were not impacted and the data was reported.

No difficulties were encountered during the GRO analyses.

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: GeoEngineers Inc

Job Number: 580-19562-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-19562-1	MW3-052410-W	Water	05/24/2010 0800	05/26/2010 1605
580-19562-2	MW18-052410-W	Water	05/24/2010 0920	05/26/2010 1605
580-19562-3	MW16-052410-W	Water	05/24/2010 1034	05/26/2010 1605
580-19562-3MS	MW16-052410-W	Water	05/24/2010 1034	05/26/2010 1605
580-19562-3MSD	MW16-052410-W	Water	05/24/2010 1034	05/26/2010 1605
580-19562-4	MW8-052410-W	Water	05/24/2010 1210	05/26/2010 1605
580-19562-5	Dupe1-052410-W	Water	05/24/2010 0000	05/26/2010 1605
580-19562-6	Trip Blank	Water	05/24/2010 0000	05/26/2010 1605
580-19562-7	MW17-052410-W	Water	05/24/2010 1420	05/26/2010 1605

METHOD SUMMARY

Client: GeoEngineers Inc

Job Number: 580-19562-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Volatile Organic Compounds (GC/MS)	TAL TAC	SW846 8260B	
Purge and Trap	TAL TAC		SW846 5030B
Semivolatile Organic Compounds (GC/MS SIM)	TAL TAC	SW846 8270C	
Liquid-Liquid Extraction (Continuous)	TAL TAC		SW846 3520C
Northwest - Volatile Petroleum Products (GC)	TAL TAC	NWTPH NWTPH-Gx	
Purge and Trap	TAL TAC		SW846 5030B
EDB	TAL TAC	EPA 8011	
Microextraction	TAL TAC		SW846 8011
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL TAC	SW846 8082	
Liquid-Liquid Extraction (Continuous)	TAL TAC		SW846 3520C
Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup	TAL TAC	NWTPH NWTPH-Dx	
Liquid-Liquid Extraction (Continuous)	TAL TAC		SW846 3520C
Silica Gel Cleanup	TAL TAC		SW846 3630C
Metals (ICP/MS)	TAL TAC	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL TAC		SW846 3005A
Anions, Ion Chromatography	TAL TAC	MCAWW 300.0	

Lab References:

TAL TAC = TestAmerica Tacoma

Method References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

NWTPH = Northwest Total Petroleum Hydrocarbon

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

METHOD / ANALYST SUMMARY

Client: GeoEngineers Inc

Job Number: 580-19562-1

Method	Analyst	Analyst ID
SW846 8260B	Kreidermacher, Scott	SK
SW846 8270C	Pham, Ai	AP
NWTPH NWTPH-Gx	Theisen, Mike A	MAT
EPA 8011	Muir, Michelle A	MAM
SW846 8082	Muir, Michelle A	MAM
NWTPH NWTPH-Dx	Kimura, Evan	EK
SW846 6020	Woo, Fred C	FCW
MCAWW 300.0	Teffeau, Kristine	KT

Method 8260B Low Level

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): ZB-624short ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	FB #	TFT #	TOL #	EBD10 #	BFB #
MW3-052410-W	580-19562-1	102	101	94	92	111
MW18-052410-W	580-19562-2	102	97	94	96	111
MW16-052410-W	580-19562-3	100	99	93	94	113
MW8-052410-W	580-19562-4	102	98	94	94	106
Dupe1-052410-W	580-19562-5	103	92	94	91	106
Trip Blank	580-19562-6	104	100	95	96	115
MW17-052410-W	580-19562-7	101	94	92	97	105
	MB 580-65110/17	103	106	93	96	97
	LCS 580-65110/18	103	106	99	97	104
	LCSD 580-65110/19	103	104	100	99	102
MW16-052410-W MS	580-19562-3 MS	100	106	98	91	106
MW16-052410-W MSD	580-19562-3 MSD	101	102	99	95	110

QC LIMITS

FB = Fluorobenzene (Surr)	70-130
TFT = Trifluorotoluene (Surr)	80-125
TOL = Toluene-d8 (Surr)	75-125
EBD10 = Ethylbenzene-d10	75-125
BFB = 4-Bromofluorobenzene (Surr)	75-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: I0314421.D
 Lab ID: LCS 580-65110/18 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	5.00	5.24	105	75-142	
Vinyl chloride	5.00	5.55	111	47-160	
m-Xylene & p-Xylene	10.0	10.7	107	70-144	
o-Xylene	4.95	5.28	107	72-137	
cis-1,2-Dichloroethene	5.00	5.20	104	71-144	
Toluene	5.00	5.06	101	80-126	
1,1-Dichloroethene	4.95	6.59	133	78-151	
1,2-Dichloroethane	5.00	4.99	100	54-160	
Tetrachloroethene	5.00	6.24	125	54-161	
Trichloroethene	5.00	5.02	100	79-131	
Ethylbenzene	5.00	5.37	107	79-132	
trans-1,2-Dichloroethene	5.00	5.34	107	73-135	
Methyl tert-butyl ether	5.00	4.85	97	77-135	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: I0314422.D

Lab ID: LCSO 580-65110/19 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSO CONCENTRATION (ug/L)	LCSO % REC	% RPD	QC LIMITS		#
					RPD	REC	
Benzene	5.00	5.02	100	4	20	75-142	
Vinyl chloride	5.00	5.35	107	4	20	47-160	
m-Xylene & p-Xylene	10.0	10.5	106	1	20	70-144	
o-Xylene	4.95	5.12	103	3	20	72-137	
cis-1,2-Dichloroethene	5.00	5.01	100	4	20	71-144	
Toluene	5.00	4.93	98	3	20	80-126	
1,1-Dichloroethene	4.95	6.29	127	5	20	78-151	
1,2-Dichloroethane	5.00	4.83	97	3	20	54-160	
Tetrachloroethene	5.00	6.68	133	7	20	54-161	
Trichloroethene	5.00	5.04	101	0	20	79-131	
Ethylbenzene	5.00	5.22	104	3	20	79-132	
trans-1,2-Dichloroethene	5.00	5.12	102	4	20	73-135	
Methyl tert-butyl ether	5.00	4.76	95	2	20	77-135	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: I0314429.D
 Lab ID: 580-19562-3 MS Client ID: MW16-052410-W MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Benzene	5.00	ND	5.08	102	75-142	
Vinyl chloride	5.00	0.76	6.59	117	47-160	
m-Xylene & p-Xylene	10.0	ND	10.2	102	70-144	
o-Xylene	4.95	ND	4.97	100	72-137	
cis-1,2-Dichloroethene	5.00	0.20	5.16	99	71-144	
Toluene	5.00	ND	4.81	96	80-126	
1,1-Dichloroethene	4.95	ND	6.51	132	78-151	
1,2-Dichloroethane	5.00	ND	4.73	95	54-160	
Tetrachloroethene	5.00	ND	3.93	79	64-161	
Trichloroethene	5.00	0.44	5.14	94	79-131	
Ethylbenzene	5.00	ND	5.04	101	79-132	
trans-1,2-Dichloroethene	5.00	0.18	5.40	104	73-135	
Methyl tert-butyl ether	5.00	ND	4.79	96	77-135	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: I0314430.D
 Lab ID: 580-19562-3 MSD Client ID: MW16-052410-W MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Benzene	5.00	5.08	102	0	30	75-142	
Vinyl chloride	5.00	6.50	115	1	20	47-160	
m-Xylene & p-Xylene	10.0	10.2	102	1	20	70-144	
o-Xylene	4.95	5.01	101	1	20	72-137	
cis-1,2-Dichloroethene	5.00	5.14	99	0	20	71-144	
Toluene	5.00	4.78	96	1	30	80-126	
1,1-Dichloroethene	4.95	6.63	134	2	30	78-151	
1,2-Dichloroethane	5.00	4.76	95	1	20	54-160	
Tetrachloroethene	5.00	3.87	77	2	20	64-161	
Trichloroethene	5.00	5.19	95	1	30	79-131	
Ethylbenzene	5.00	4.97	99	2	20	79-132	
trans-1,2-Dichloroethene	5.00	5.24	101	3	20	73-135	
Methyl tert-butyl ether	5.00	4.76	95	1	20	77-135	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab File ID: I0314420.D Lab Sample ID: MB 580-65110/17
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: SEA015 Date Analyzed: 06/07/2010 18:52
 GC Column: ZB-624short ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-65110/18	I0314421.D	06/07/2010 19:17
	LCSD 580-65110/19	I0314422.D	06/07/2010 19:42
Trip Blank	580-19562-6	I0314425.D	06/07/2010 20:58
MW3-052410-W	580-19562-1	I0314426.D	06/07/2010 21:24
MW18-052410-W	580-19562-2	I0314427.D	06/07/2010 21:49
MW16-052410-W	580-19562-3	I0314428.D	06/07/2010 22:14
MW16-052410-W MS	580-19562-3 MS	I0314429.D	06/07/2010 22:40
MW16-052410-W MSD	580-19562-3 MSD	I0314430.D	06/07/2010 23:05
MW8-052410-W	580-19562-4	I0314431.D	06/07/2010 23:31
Dupel-052410-W	580-19562-5	I0314432.D	06/07/2010 23:56
MW17-052410-W	580-19562-7	I0314433.D	06/08/2010 00:22

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab File ID: I0314404.D BFB Injection Date: 06/07/2010
 Instrument ID: SEA015 BFB Injection Time: 12:09
 Analysis Batch No.: 65110

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.7
75	30.0 - 60.0 % of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.4
173	Less than 2.0 % of mass 174	0.2 (0.3)1
174	50.0 - 120.00 % of mass 95	69.6
175	5.0 - 9.0 % of mass 174	5.0 (7.2)1
176	95.0 - 101.0 % of mass 174	66.6 (95.7)1
177	5.0 - 9.0 % of mass 176	4.5 (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
	STD 580-65110/2	I0314405.D	06/07/2010	12:34

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab File ID: I0314405BFB.D BFB Injection Date: 06/07/2010
 Instrument ID: SEA015 BFB Injection Time: 12:34
 Analysis Batch No.: 65110

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.2
75	30.0 - 60.0 % of mass 95	50.8
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	0.1 (0.1) 1
174	50.0 - 120.00 % of mass 95	72.9
175	5.0 - 9.0 % of mass 174	5.3 (7.2) 1
176	95.0 - 101.0 % of mass 174	70.5 (96.6) 1
177	5.0 - 9.0 % of mass 176	4.7 (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
	STD 580-65110/3	I0314406.D	06/07/2010	13:00
	STD 580-65110/4	I0314407.D	06/07/2010	13:25
	STD 580-65110/5	I0314408.D	06/07/2010	13:50
	STD001 580-65110/6	I0314409.D	06/07/2010	14:15
	STD002 580-65110/7	I0314410.D	06/07/2010	14:40
	ICIS 580-65110/8	I0314411.D	06/07/2010	15:05
	STD010 580-65110/9	I0314412.D	06/07/2010	15:30
	STD020 580-65110/10	I0314413.D	06/07/2010	15:56
	STD040 580-65110/11	I0314414.D	06/07/2010	16:21
	STD100 580-65110/12	I0314415.D	06/07/2010	16:46
	ICV 580-65110/15	I0314418.D	06/07/2010	18:02
	MB 580-65110/17	I0314420.D	06/07/2010	18:52
	LCS 580-65110/18	I0314421.D	06/07/2010	19:17
	LCSD 580-65110/19	I0314422.D	06/07/2010	19:42
Trip Blank	580-19562-6	I0314425.D	06/07/2010	20:58
MW3-052410-W	580-19562-1	I0314426.D	06/07/2010	21:24
MW18-052410-W	580-19562-2	I0314427.D	06/07/2010	21:49
MW16-052410-W	580-19562-3	I0314428.D	06/07/2010	22:14
MW16-052410-W MS	580-19562-3 MS	I0314429.D	06/07/2010	22:40
MW16-052410-W MSD	580-19562-3 MSD	I0314430.D	06/07/2010	23:05
MW8-052410-W	580-19562-4	I0314431.D	06/07/2010	23:31
Dupe1-052410-W	580-19562-5	I0314432.D	06/07/2010	23:56
MW17-052410-W	580-19562-7	I0314433.D	06/08/2010	00:22

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Sample No.: ICIS 580-65110/8 Date Analyzed: 06/07/2010 15:05
 Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm)
 Lab File ID (Standard): I0314411.D Heated Purge: (Y/N) N
 Calibration ID: 5119

	PFB		DFB		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	1510064	2.49	2708026	2.78	1299841	4.95	
UPPER LIMIT	3020128	2.99	5416052	3.28	2599682	5.45	
LOWER LIMIT	755032	1.99	1354013	2.28	649921	4.45	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 580-65110/15	1713062	2.49	3047619	2.78	1412417	4.95	
MB 580-65110/17	1491581	2.49	2727197	2.78	1217367	4.95	
LCS 580-65110/18	1515864	2.49	2722022	2.78	1278871	4.95	
LCSD 580-65110/19	1601904	2.49	2835378	2.78	1337692	4.95	
580-19562-6	Trip Blank	1381117	2.49	2569191	2.78	1131965	4.95
580-19562-1	MW3-052410-W	1423293	2.49	2640399	2.77	1183725	4.95
580-19562-2	MW18-052410-W	1431602	2.49	2611069	2.78	1134235	4.95
580-19562-3	MW16-052410-W	1426315	2.49	2613402	2.78	1139058	4.95
580-19562-3 MS	MW16-052410-W MS	1484103	2.49	2614005	2.77	1229892	4.95
580-19562-3 MSD	MW16-052410-W MSD	1504864	2.49	2675366	2.78	1280843	4.94
580-19562-4	MW8-052410-W	1443499	2.49	2694721	2.78	1167500	4.95
580-19562-5	Dupe1-052410-W	1402972	2.49	2583638	2.77	1146629	4.95
580-19562-7	MW17-052410-W	1403893	2.49	2555335	2.78	1089858	4.95

PFB = Pentafluorobenzene
 DFB = 1,4-Difluorobenzene
 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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW3-052410-W Lab Sample ID: 580-19562-1
 Matrix: Water Lab File ID: I0314426.D
 Analysis Method: 8260B Date Collected: 05/24/2010 08:00
 Sample wt/vol: 10 (mL) Date Analyzed: 06/07/2010 21:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65110 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	ND		0.10	0.10
75-01-4	Vinyl chloride	0.48		0.020	0.020
179601-23-1	m-Xylene & p-Xylene	ND		0.20	0.20
95-47-6	o-Xylene	ND		0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.14		0.10	0.10
108-88-3	Toluene	ND		0.10	0.10
75-35-4	1,1-Dichloroethene	ND		0.10	0.10
107-06-2	1,2-Dichloroethane	ND		0.10	0.10
127-18-4	Tetrachloroethene	ND		0.10	0.10
79-01-6	Trichloroethene	0.48		0.10	0.10
100-41-4	Ethylbenzene	ND		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	ND		0.10	0.10
1634-04-4	Methyl tert-butyl ether	ND		0.10	0.10
1330-20-7	Xylenes, Total	ND		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	101	80-125	
462-06-6	Fluorobenzene (Surr)	102	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	111	75-120	
2037-26-5	Toluene-d8 (Surr)	94	75-125	
25837-05-2	Ethylbenzene-d10	92	75-125	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW18-052410-W Lab Sample ID: 580-19562-2
 Matrix: Water Lab File ID: I0314427.D
 Analysis Method: 8260B Date Collected: 05/24/2010 09:20
 Sample wt/vol: 10 (mL) Date Analyzed: 06/07/2010 21:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65110 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.20		0.10	0.10
75-01-4	Vinyl chloride	2.3		0.020	0.020
179601-23-1	m-Xylene & p-Xylene	ND		0.20	0.20
95-47-6	o-Xylene	ND		0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.28		0.10	0.10
108-88-3	Toluene	ND		0.10	0.10
75-35-4	1,1-Dichloroethene	ND		0.10	0.10
107-06-2	1,2-Dichloroethane	ND		0.10	0.10
127-18-4	Tetrachloroethene	ND		0.10	0.10
79-01-6	Trichloroethene	0.62		0.10	0.10
100-41-4	Ethylbenzene	ND		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	0.16		0.10	0.10
1634-04-4	Methyl tert-butyl ether	ND		0.10	0.10
1330-20-7	Xylenes, Total	ND		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	97	80-125	
462-06-6	Fluorobenzene (Surr)	102	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	111	75-120	
2037-26-5	Toluene-d8 (Surr)	94	75-125	
25837-05-2	Ethylbenzene-d10	96	75-125	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W Lab Sample ID: 580-19562-3
 Matrix: Water Lab File ID: I0314428.D
 Analysis Method: 8260B Date Collected: 05/24/2010 10:34
 Sample wt/vol: 10 (mL) Date Analyzed: 06/07/2010 22:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65110 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	ND		0.10	0.10
75-01-4	Vinyl chloride	0.76		0.020	0.020
179601-23-1	m-Xylene & p-Xylene	ND		0.20	0.20
95-47-6	o-Xylene	ND		0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.20		0.10	0.10
108-88-3	Toluene	ND		0.10	0.10
75-35-4	1,1-Dichloroethene	ND		0.10	0.10
107-06-2	1,2-Dichloroethane	ND		0.10	0.10
127-18-4	Tetrachloroethene	ND		0.10	0.10
79-01-6	Trichloroethene	0.44		0.10	0.10
100-41-4	Ethylbenzene	ND		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	0.18		0.10	0.10
1634-04-4	Methyl tert-butyl ether	ND		0.10	0.10
1330-20-7	Xylenes, Total	ND		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	99	80-125	
462-06-6	Fluorobenzene (Surr)	100	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	113	75-120	
2037-26-5	Toluene-d8 (Surr)	93	75-125	
25837-05-2	Ethylbenzene-d10	94	75-125	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW8-052410-W Lab Sample ID: 580-19562-4
 Matrix: Water Lab File ID: I0314431.D
 Analysis Method: 8260B Date Collected: 05/24/2010 12:10
 Sample wt/vol: 10 (mL) Date Analyzed: 06/07/2010 23:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65110 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	ND		0.10	0.10
75-01-4	Vinyl chloride	0.21		0.020	0.020
179601-23-1	m-Xylene & p-Xylene	ND		0.20	0.20
95-47-6	o-Xylene	ND		0.10	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.10	0.10
108-88-3	Toluene	ND		0.10	0.10
75-35-4	1,1-Dichloroethene	ND		0.10	0.10
107-06-2	1,2-Dichloroethane	ND		0.10	0.10
127-18-4	Tetrachloroethene	ND		0.10	0.10
79-01-6	Trichloroethene	ND		0.10	0.10
100-41-4	Ethylbenzene	ND		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	ND		0.10	0.10
1634-04-4	Methyl tert-butyl ether	ND		0.10	0.10
1330-20-7	Xylenes, Total	ND		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	98	80-125	
462-06-6	Fluorobenzene (Surr)	102	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	106	75-120	
2037-26-5	Toluene-d8 (Surr)	94	75-125	
25837-05-2	Ethylbenzene-d10	94	75-125	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: Dupe1-052410-W Lab Sample ID: 580-19562-5
 Matrix: Water Lab File ID: I0314432.D
 Analysis Method: 8260B Date Collected: 05/24/2010 00:00
 Sample wt/vol: 10 (mL) Date Analyzed: 06/07/2010 23:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65110 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	ND		0.10	0.10
75-01-4	Vinyl chloride	0.23		0.020	0.020
179601-23-1	m-Xylene & p-Xylene	ND		0.20	0.20
95-47-6	o-Xylene	ND		0.10	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.10	0.10
108-88-3	Toluene	ND		0.10	0.10
75-35-4	1,1-Dichloroethene	ND		0.10	0.10
107-06-2	1,2-Dichloroethane	ND		0.10	0.10
127-18-4	Tetrachloroethene	ND		0.10	0.10
79-01-6	Trichloroethene	ND		0.10	0.10
100-41-4	Ethylbenzene	ND		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	ND		0.10	0.10
1634-04-4	Methyl tert-butyl ether	ND		0.10	0.10
1330-20-7	Xylenes, Total	ND		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	92	80-125	
462-06-6	Fluorobenzene (Surr)	103	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	106	75-120	
2037-26-5	Toluene-d8 (Surr)	94	75-125	
25837-05-2	Ethylbenzene-d10	91	75-125	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: Trip Blank Lab Sample ID: 580-19562-6
 Matrix: Water Lab File ID: I0314425.D
 Analysis Method: 8260B Date Collected: 05/24/2010 00:00
 Sample wt/vol: 10 (mL) Date Analyzed: 06/07/2010 20:58
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65110 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	ND		0.10	0.10
75-01-4	Vinyl chloride	ND		0.020	0.020
179601-23-1	m-Xylene & p-Xylene	ND		0.20	0.20
95-47-6	o-Xylene	ND		0.10	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.10	0.10
108-88-3	Toluene	ND		0.10	0.10
75-35-4	1,1-Dichloroethene	ND		0.10	0.10
107-06-2	1,2-Dichloroethane	ND		0.10	0.10
127-18-4	Tetrachloroethene	ND		0.10	0.10
79-01-6	Trichloroethene	ND		0.10	0.10
100-41-4	Ethylbenzene	ND		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	ND		0.10	0.10
1634-04-4	Methyl tert-butyl ether	ND		0.10	0.10
1330-20-7	Xylenes, Total	ND		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	100	80-125	
462-06-6	Fluorobenzene (Surr)	104	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	115	75-120	
2037-26-5	Toluene-d8 (Surr)	95	75-125	
25837-05-2	Ethylbenzene-d10	96	75-125	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW17-052410-W Lab Sample ID: 580-19562-7
 Matrix: Water Lab File ID: I0314433.D
 Analysis Method: 8260B Date Collected: 05/24/2010 14:20
 Sample wt/vol: 10 (mL) Date Analyzed: 06/08/2010 00:22
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65110 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.17	H	0.10	0.10
75-01-4	Vinyl chloride	0.084	H	0.020	0.020
179601-23-1	m-Xylene & p-Xylene	ND	H	0.20	0.20
95-47-6	o-Xylene	ND	H	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	ND	H	0.10	0.10
108-88-3	Toluene	ND	H	0.10	0.10
75-35-4	1,1-Dichloroethene	ND	H	0.10	0.10
107-06-2	1,2-Dichloroethane	ND	H	0.10	0.10
127-18-4	Tetrachloroethene	ND	H	0.10	0.10
79-01-6	Trichloroethene	0.26	H	0.10	0.10
100-41-4	Ethylbenzene	ND	H	0.10	0.10
156-60-5	trans-1,2-Dichloroethene	ND	H	0.10	0.10
1634-04-4	Methyl tert-butyl ether	ND	H	0.10	0.10
1330-20-7	Xylenes, Total	ND	H	0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	94	80-125	
462-06-6	Fluorobenzene (Surr)	101	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	105	75-120	
2037-26-5	Toluene-d8 (Surr)	92	75-125	
25837-05-2	Ethylbenzene-d10	97	75-125	

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 580-65110/2	I0314405.D
Level 2	STD 580-65110/3	I0314406.D
Level 3	STD 580-65110/4	I0314407.D
Level 4	STD 580-65110/5	I0314408.D
Level 5	STD001 580-65110/6	I0314409.D
Level 6	STD002 580-65110/7	I0314410.D
Level 7	ICIS 580-65110/8	I0314411.D
Level 8	STD010 580-65110/9	I0314412.D
Level 9	STD020 580-65110/10	I0314413.D
Level 10	STD040 580-65110/11	I0314414.D
Level 11	STD100 580-65110/12	I0314415.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Dichlorodifluoromethane	++++ 0.6070 0.5637	0.6912 0.6195	0.7959 0.5218	0.6342 0.5872	0.6421 0.5682	Ave		0.6231			12.0		15.0				
Chloromethane	++++ 0.6679 0.5242	1.0667 0.5681	0.8839 0.5312	0.5638 0.5507	0.7032 0.5214	Lin1	0.0673	0.5278		0.1000				0.9990		0.9900	
Vinyl chloride	0.2641 0.5632 0.5097	0.7273 0.5489	0.7225 0.4961	0.5939 0.5298	0.6041 0.5048	Lin1	0.0062	0.5125						0.9990		0.9900	
Bromomethane	++++ 0.4973 0.3506	0.6776 0.4889	0.6969 0.4149	0.6276 0.4369	0.4880 0.4189	Lin	0.5643	0.3550						0.9940		0.9900	
Chloroethane	++++ 0.1194 0.0702	0.4255 0.1065	0.2484 0.0876	0.2112 0.0911	0.1004 0.0826	Lin	0.1447	0.0706						0.9940		0.9900	
Trichlorofluoromethane	++++ 0.8653 0.7406	0.9136 0.8475	1.1401 0.7521	0.8594 0.8230	0.9160 0.7922	Ave		0.8650			13.0		15.0				
Acrolein	++++ 0.0457 0.0330	0.0692 0.0400	0.0840 0.0358	0.0527 0.0372	0.0488 0.0346	Lin1	0.0363	0.0341						0.9960		0.9900	
1,1-Dichloroethene	++++ 0.4260 0.3679	0.5492 0.3946	0.6222 0.3958	0.4311 0.4031	0.4680 0.4021	Lin1	0.0334	0.3817						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 Tacoma Job No.: 580-19562-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 0.4426 0.3879	0.5155 0.4138	0.5234 0.3944	0.4194 0.4151	0.4655 0.4127	Ave		0.4390			11.0		15.0				
Acetone	++++ 0.0736 0.0491	0.0698 0.0646	0.1924 0.0587	0.0892 0.0594	0.0853 0.0544	Qua1	0.0547	0.0606	0					0.9940		0.9900	
Iodomethane	++++ 1.0531 0.5847	1.0617 1.0023	1.2923 0.9766	1.0565 0.9823	1.1054 0.9273	Qua2	0.0334	1.0777	-0.001					0.9930		0.9900	
2-Methyl-2-propanol	++++ 0.0101 0.0100	0.0084 0.0096	0.0256 0.0104	0.0117 0.0099	0.0150 0.0100	Lin1	0.0054	0.0100						0.9970		0.9900	
Carbon disulfide	++++ 1.1476 1.1672	1.4622 1.1282	1.4760 1.1338	1.0792 1.2341	1.1452 1.2281	Ave		1.2202			11.0		15.0				
Methylene Chloride	++++ 0.5814 0.4136	1.6338 0.4251	1.1188 0.4589	0.7956 0.4440	0.6004 0.4400	Lin1	0.1400	0.4233						0.9980		0.9900	
1,1-Dichloroethane	++++ 0.6828 0.7230	0.7040 0.6619	0.8218 0.6624	0.6961 0.6807	0.7068 0.7191	Ave		0.7058		0.1000	6.5		15.0				
Vinyl acetate	++++ 0.0401 0.0533	0.0385 0.0378	0.0434 0.0371	0.0355 0.0424	0.0388 0.0419	Ave		0.0409			12.0		15.0				
trans-1,2-Dichloroethene	++++ 0.3625 0.4077	0.3899 0.3314	0.4580 0.3424	0.3544 0.3565	0.3707 0.3878	Ave		0.3761			9.8		15.0				
Methyl tert-butyl ether	++++ 0.9298 0.9607	0.9649 0.8651	1.0703 0.8233	0.9431 0.9041	0.9184 0.9125	Ave		0.9292			7.1		15.0				
Acrylonitrile	++++ 0.1016 0.0885	0.1178 0.0874	0.1207 0.0883	0.1033 0.0898	0.1044 0.0898	Ave		0.0992			13.0		15.0				
n-Hexane	++++ 0.4757 0.4829	0.4867 0.4303	0.6030 0.4333	0.4672 0.4620	0.4928 0.4754	Ave		0.4809			9.9		15.0				
Tert-butyl ethyl ether	++++ 0.3866 0.4260	0.3414 0.3734	0.4097 0.3533	0.3531 0.3939	0.3538 0.4075	Ave		0.3799			7.7		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 Tacoma Job No.: 580-19562-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
2,2-Dichloropropane	++++ 0.4325 0.5238	0.4727 0.4121	0.6328 0.4183	0.4245 0.4482	0.4119 0.4824	Ave		0.4659			15.0		15.0				
2-Butanone	++++ 0.0111 0.0108	0.0083 0.0101	0.0152 0.0096	0.0118 0.0105	0.0120 0.0105	Lin1	0.0009	0.0106						0.9990		0.9900	
Chlorobromomethane	++++ 0.2273 0.2858	0.2157 0.2181	0.2521 0.2272	0.2210 0.2304	0.2346 0.2493	Ave		0.2362			9.0		15.0				
cis-1,2-Dichloroethene	++++ 0.4047 0.4751	0.3686 0.3743	0.4509 0.3799	0.3679 0.4044	0.4040 0.4362	Ave		0.4066			9.1		15.0				
Carbon tetrachloride	++++ 0.4280 0.5674	0.5635 0.4057	0.4729 0.4293	0.3399 0.4651	0.3951 0.5059	Lin1	-0.037	0.5289						0.9910		0.9900	
1,2-Dichloroethane	++++ 0.5258 0.5224	0.5009 0.4855	0.6727 0.4879	0.5579 0.4937	0.5492 0.5097	Ave		0.5306			10.0		15.0				
Tert-amyl methyl ether	++++ 0.8218 1.0262	0.8360 0.8437	0.9773 0.8287	0.7706 0.9113	0.8157 0.9453	Ave		0.8777			9.4		15.0				
Chloroform	++++ 0.6794 0.7135	0.6047 0.6395	0.8095 0.6335	0.6680 0.6592	0.6805 0.6834	Ave		0.6771			8.2		15.0				
1,1,1-Trichloroethane	++++ 0.5107 0.6154	0.4749 0.4848	0.6208 0.5044	0.4663 0.5375	0.4842 0.5746	Ave		0.5274			11.0		15.0				
1,1-Dichloropropene	++++ 0.5027 0.5729	0.5401 0.4847	0.6573 0.4831	0.4711 0.5138	0.5324 0.5444	Ave		0.5302			10.0		15.0				
Benzene	++++ 1.5104 1.4350	1.6262 1.4031	1.8999 1.4245	1.4776 1.4506	1.4911 1.5283	Ave		1.5247			9.6		15.0				
1,2-Dichloropropane	++++ 0.2251 0.2555	0.2403 0.2205	0.2803 0.2234	0.2319 0.2384	0.2437 0.2499	Ave		0.2409			7.5		15.0				
1,4-Dioxane	++++ 0.0002 0.0002	0.0003 0.0002	0.0003 0.0002	0.0002 0.0002	0.0002 0.0002	Lin1	0	0.0002						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 Tacoma

Job No.: 580-19562-1

Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015

GC Column: ZB-624short ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34

Calibration End Date: 06/07/2010 16:46

Calibration ID: 5119

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Dibromomethane	++++ 0.0950 0.1231	0.0802 0.0911	0.0933 0.0975	0.1016 0.1022	0.0962 0.1085	Ave		0.0989			11.0		15.0				
Dichlorobromomethane	++++ 0.2244 0.3218	0.1651 0.2236	0.2318 0.2422	0.2059 0.2712	0.2074 0.2869	Lin1	-0.032	0.3008						0.9910		0.9900	
Trichloroethene	++++ 0.1931 0.2575	0.2429 0.1757	0.2319 0.1883	0.1733 0.2010	0.1985 0.2158	Ave		0.2078			14.0		15.0				
cis-1,3-Dichloropropene	++++ 0.2605 0.3824	0.1908 0.2656	0.2456 0.2902	0.2165 0.3287	0.2434 0.3453	Lin1	-0.042	0.3593						0.9920		0.9900	
4-Methyl-2-pentanone	++++ 0.0588 0.0704	0.0412 0.0581	0.0545 0.0600	0.0504 0.0663	0.0536 0.0651	Ave		0.0578			15.0		15.0				
trans-1,3-Dichloropropene	++++ 0.1964 0.3323	0.1687 0.2063	0.2152 0.2394	0.1555 0.2655	0.1831 0.2927	Lin	-0.478	0.3307						0.9970		0.9900	
2-Chloroethyl vinyl ether	++++ 0.1135 0.1318	0.0800 0.1142	0.1044 0.1195	0.0903 0.1350	0.1051 0.1375	Lin1	-0.050	0.1323						0.9980		0.9900	
1,1,2-Trichloroethane	++++ 0.1683 0.1937	0.1655 0.1567	0.1824 0.1590	0.1643 0.1693	0.1642 0.1744	Ave		0.1698			6.6		15.0				
Tetrachloroethene	++++ 0.1762 ++++	0.1558 0.1887	0.1620 0.2102	0.1601 0.2333	0.1857 0.3027	Qua2	-0.002	0.1736	0.0032					0.9990		0.9900	
1,3-Dichloropropane	++++ 0.2780 0.3395	0.2394 0.2665	0.3391 0.2867	0.2836 0.2991	0.2778 0.3101	Ave		0.2920			11.0		15.0				
2-Hexanone	++++ 0.0525 0.0653	0.0441 0.0529	0.0476 0.0544	0.0397 0.0614	0.0448 0.0593	Lin1	-0.027	0.0625						0.9960		0.9900	
Chlorodibromomethane	++++ 0.1343 0.2417	0.1066 0.1333	0.1267 0.1582	0.1155 0.1825	0.1220 0.1997	Qua2	-0.003	0.1383	0.0012					0.9930		0.9900	
Toluene	++++ 0.8563 0.7530	0.9967 0.7852	1.0246 0.8288	0.8684 0.8748	0.8559 0.9303	Ave		0.8774			9.8		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 Tacoma Job No.: 580-19562-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
1,2-Dibromoethane	++++ 0.1619 0.1870	0.1432 0.1490	0.1607 0.1613	0.1415 0.1679	0.1479 0.1754	Ave		0.1596			9.2		15.0				
1,1,1,2-Tetrachloroethane	++++ 0.3396 0.5608	0.3338 0.3469	0.3946 0.3843	0.3306 0.4325	0.3435 0.5297	Qua2	-0.002	0.3615	0.0023					0.9910			0.9900
Bromoform	++++ 0.1162 0.2559	0.1206 0.1302	0.1220 0.1491	0.0968 0.1816	0.1154 0.2096	Lin	-0.526	0.2538			0.1000			0.9930			0.9900
Chlorobenzene	++++ 1.2601 1.3122	3.5474 1.1576	2.6656 1.1645	1.7654 1.2029	1.4463 1.3276	Lin2	0.2426	1.2138			0.3000			0.9900			0.9900
Ethylbenzene	++++ 1.8434 1.5647	1.7976 1.8204	2.3655 1.9268	1.8498 2.1191	1.9554 2.4213	Ave		1.9664			13.0		15.0				
m-Xylene & p-Xylene	++++ 1.4387 ++++	1.2898 1.4360	1.5583 1.5077	1.3011 1.6918	1.4743 1.8777	Ave		1.5084			12.0		15.0				
1,1,2,2-Tetrachloroethane	++++ 0.4614 0.5093	0.4316 0.4176	0.5660 0.4402	0.4944 0.4652	0.4619 0.4750	Ave		0.4723			0.3000	9.1	15.0				
trans-1,4-Dichloro-2-butene	++++ 0.1042 0.1218	0.0962 0.1060	0.1051 0.1146	0.0939 0.1281	0.1025 0.1329	Ave		0.1105			12.0		15.0				
1,2,3-Trichloropropane	++++ 0.1190 0.1500	0.0982 0.1106	0.1613 0.1147	0.1393 0.1264	0.1228 0.1451	Ave		0.1288			15.0		15.0				
o-Xylene	++++ 1.3789 1.4263	1.2764 1.4425	1.4930 1.5589	1.2760 1.7019	1.3517 2.0015	Ave		1.4907			15.0		15.0				
Styrene	++++ 1.0271 1.5043	0.7241 1.0894	0.8948 1.1708	0.8021 1.3515	0.9442 1.5620	Lin1	-0.188	1.4691						0.9930			0.9900
tert-Butylbenzene	++++ 1.0592 1.6033	0.7123 1.1043	1.0073 1.1719	0.8282 1.3605	1.0454 1.5250	Lin1	-0.195	1.5193						0.9910			0.9900
Isopropylbenzene	++++ 1.5173 ++++	1.0836 1.5674	1.4494 1.7004	1.2061 1.9327	1.4614 2.1440	Lin1	-0.197	1.9874						0.9900			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 Tacoma

Job No.: 580-19562-1

Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015

GC Column: ZB-624short ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34

Calibration End Date: 06/07/2010 16:46

Calibration ID: 5119

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
sec-Butylbenzene	++++ 1.6395 1.6580	1.0961 1.7533	1.4966 1.8638	1.2712 2.0743	1.6155 2.3216	Qual	-0.247	2.2570	-0.006					0.9900		0.9900	
Bromobenzene	++++ 0.4191 0.7207	0.3979 0.4214	0.5562 0.4487	0.3988 0.5121	0.4171 0.6249	Qual	-0.016	0.4776	0.0025					0.9980		0.9900	
N-Propylbenzene	++++ 2.2659 ++++	1.7836 2.3506	2.2713 2.4525	1.9233 2.6481	2.2556 2.9393	Ave		2.3211			15.0		15.0				
2-Chlorotoluene	++++ 0.4217 0.6282	0.3293 0.4255	0.4561 0.4446	0.4110 0.4772	0.4417 0.5412	Qua2	-0.008	0.4384	0.0020					0.9970		0.9900	
1,3,5-Trimethylbenzene	++++ 1.3927 1.4490	0.9229 1.4111	1.2577 1.5055	1.1533 1.6287	1.3750 1.8490	Qual	-0.161	1.7559	-0.003					0.9930		0.9900	
4-Chlorotoluene	++++ 0.4388 0.6035	0.3431 0.4304	0.4818 0.4534	0.3859 0.4763	0.4405 0.5456	Lin1	-0.053	0.5625						0.9900		0.9900	
1,2-Dibromo-3-Chloropropane	++++ 0.0460 0.0711	++++ 0.0431	0.0584 0.0514	0.0392 0.0606	0.0452 0.0669	Lin1	-0.013	0.0672						0.9900		0.9900	
1,2,4-Trimethylbenzene	++++ 1.3817 1.4713	0.9367 1.4545	1.1302 1.5732	1.0473 1.7031	1.3007 1.9177	Qual	-0.198	1.8354	-0.003					0.9920		0.9900	
Hexachloroethane	++++ 0.1977 0.3931	0.1874 0.2246	0.2599 0.2465	0.1902 0.2919	0.1861 0.3474	Qual	-0.020	0.2675	0.0013					0.9970		0.9900	
4-Isopropyltoluene	++++ 1.3105 1.6970	0.8347 1.3699	1.0464 1.5137	0.8788 1.7071	1.1400 1.9696	Lin1	-0.203	1.7406						0.9930		0.9900	
1,3-Dichlorobenzene	++++ 0.8256 1.1949	0.7117 0.8508	1.0102 0.8730	0.8185 0.9395	0.9090 1.0887	Ave		0.9222			15.0		15.0				
1,4-Dichlorobenzene	++++ 0.9414 1.1938	1.0276 0.8908	1.2105 0.9088	0.9609 0.9729	1.0242 1.0858	Ave		1.0217			11.0		15.0				
n-Butylbenzene	++++ 0.3074 0.5002	0.2593 0.3373	0.3533 0.3558	0.2755 0.3941	0.3027 0.4425	Qua2	-0.006	0.3303	0.0019					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 Tacoma Job No.: 580-19562-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
1,2-Dichlorobenzene	++++ 0.7842 1.0615	0.7638 0.7718	0.9410 0.8015	0.7825 0.8551	0.8118 0.9449	Ave		0.8518			12.0		15.0				
1,3,5-Trichlorobenzene	++++ 0.5355 0.8334	0.4793 0.5226	0.5997 0.5617	0.4576 0.6267	0.5326 0.7106	Qua2	-0.003	0.5355	0.0032					0.9940		0.9900	
Hexachlorobutadiene	++++ 0.1816 0.2439	0.1713 0.1664	0.1984 0.1842	0.1696 0.2001	0.1941 0.2259	Ave		0.1936			13.0		15.0				
Naphthalene	++++ 0.7357 1.3881	0.5338 0.8598	0.6394 1.0329	0.5974 1.2015	0.6767 1.3112	Lin1	-0.215	1.3130						0.9900		0.9900	
1,2,3-Trichlorobenzene	++++ 0.3862 0.6159	0.3763 0.4127	0.3946 0.4498	0.3348 0.4944	0.3847 0.5543	Qua2	-0.004	0.4056	0.0024					0.9930		0.9900	
1,2,4-Trichlorobenzene	++++ 0.4122 0.7333	0.4257 0.4416	0.4973 0.4860	0.3632 0.5517	0.4337 0.6273	Qua2	-0.001	0.4407	0.0032					0.9910		0.9900	
Fluorobenzene (Surr)	++++ 2.1473 1.9785	2.1432 2.1482	2.1393 2.1105	2.1251 2.0744	2.1092 2.0233	Ave		2.0999			2.8		15.0				
Trifluorotoluene (Surr)	++++ 0.2920 0.4759	0.3025 0.2834	0.3334 0.2802	0.2911 0.3341	0.3016 0.3661	Qua2	0.0032	0.2857	0.0019					0.9970		0.9900	
Toluene-d8 (Surr)	1.0729 1.1604 1.1982	1.1067 1.1507	1.0926 1.1763	1.1144 1.1743	1.1004 1.1548	Ave		1.1365			3.6		15.0				
Ethylbenzene-d10	++++ 0.8006 1.0689	0.7807 0.7999	0.7982 0.8198	0.7745 0.8841	0.7879 0.9383	Ave		0.8453			11.0		15.0				
4-Bromofluorobenzene (Surr)	++++ 0.6145 0.5988	0.5995 0.6601	0.6290 0.6606	0.6166 0.6446	0.6285 0.6506	Ave		0.6303			3.7		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 580-65110/2	I0314405.D
Level 2	STD 580-65110/3	I0314406.D
Level 3	STD 580-65110/4	I0314407.D
Level 4	STD 580-65110/5	I0314408.D
Level 5	STD001 580-65110/6	I0314409.D
Level 6	STD002 580-65110/7	I0314410.D
Level 7	ICIS 580-65110/8	I0314411.D
Level 8	STD010 580-65110/9	I0314412.D
Level 9	STD020 580-65110/10	I0314413.D
Level 10	STD040 580-65110/11	I0314414.D
Level 11	STD100 580-65110/12	I0314415.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
Dichlorodifluoromethane	PFB	Ave	++++ 72028 4276945	4227 187219	8149 334559	15111 787031	37989 1596002	++++ 2.00 100.0	0.1000 5.00	0.200 10.00	0.400 20.0	1.000 40.0
Chloromethane	PFB	Lin1	++++ 79301 3979385	6527 171797	9056 340819	13441 738546	41630 1465340	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Vinyl chloride	PFB	Lin1	334 66891 3871045	4452 166041	7405 318459	14166 710743	35776 1419220	0.0200 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Bromomethane	PFB	Lin	++++ 58955 2657683	4140 147629	7130 265838	14942 585089	28849 1175562	++++ 2.00 99.9	0.0999 5.00	0.200 9.99	0.400 20.0	0.999 40.0
Chloroethane	PFB	Lin	++++ 14163 532792	2602 32179	2544 56173	5032 122110	5938 232000	++++ 2.00 100.0	0.1000 5.00	0.200 10.00	0.400 20.0	1.000 40.0
Trichlorofluoromethane	PFB	Ave	++++ 102822 5626705	5595 256471	11690 482935	20505 1104599	54266 2228178	++++ 2.00 100	0.100 5.01	0.200 10.0	0.401 20.0	1.00 40.1
Acrolein	PFB	Lin1	++++ 27349 1261412	2132 60888	4335 115730	6324 251347	14539 489776	++++ 10.1 504	0.504 25.2	1.01 50.4	2.02 101	5.04 202
1,1-Dichloroethene	PFB	Lin1	++++ 50958 2814142	3386 120231	6422 255823	10354 544647	27913 1138577	++++ 2.02 101	0.101 5.04	0.202 10.1	0.403 20.2	1.01 40.3

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
1,1,2-Trichloro-1,2,2-trifluoroethane	PFB	Ave	++++ 52211 2925898	3134 124307	5328 251426	9934 553106	27378 1152312	++++ 1.99 99.4	0.0994 4.97	0.199 9.94	0.398 19.9	0.994 39.8
Acetone	PFB	Qual	++++ 43671 1864472	2135 97689	9849 188287	10631 398050	25222 764363	++++ 10.0 500	0.500 25.0	1.00 50.0	2.00 100	5.00 200
Iodomethane	PFB	Qua2	++++ 626112 22226270	32530 1517725	66301 3137724	126132 6596174	327660 13049233	++++ 10.0 501	0.501 25.1	1.00 50.1	2.00 100	5.01 200
2-Methyl-2-propanol	PFB	Lin1	++++ 5992 380102	257 14518	1310 33255	1398 66491	4433 140053	++++ 10.0 500	0.500 25.0	1.00 50.0	2.00 100	5.00 200
Carbon disulfide	PFB	Ave	++++ 137205 8922893	9010 343545	15228 732522	25910 1666529	68266 3475666	++++ 2.02 101	0.101 5.04	0.202 10.1	0.403 20.2	1.01 40.3
Methylene Chloride	PFB	Lin1	++++ 69897 3179404	10122 130149	11606 298100	19205 602798	35983 1252122	++++ 2.03 101	0.101 5.07	0.203 10.1	0.405 20.3	1.01 40.5
1,1-Dichloroethane	PFB	Ave	++++ 80864 5474854	4297 199656	8398 423954	16554 910516	41734 2015885	++++ 2.00 99.8	0.0998 4.99	0.200 9.98	0.399 20.0	0.998 39.9
Vinyl acetate	PFB	Ave	++++ 23949 2036885	1186 57539	2237 119761	4259 286008	11539 591760	++++ 10.1 503	0.503 25.2	1.01 50.3	2.01 101	5.03 201
trans-1,2-Dichloroethene	PFB	Ave	++++ 42715 3071992	2368 99453	4657 218016	8385 474544	21779 1081557	++++ 1.99 99.3	0.0993 4.97	0.199 9.93	0.397 19.9	0.993 39.7
Methyl tert-butyl ether	PFB	Ave	++++ 110337 7289236	5901 261476	10960 527938	22474 1211789	54337 2563208	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Acrylonitrile	PFB	Ave	++++ 60558 3375650	3621 132669	6209 284554	12368 604622	31052 1267344	++++ 10.1 503	0.503 25.1	1.01 50.3	2.01 101	5.03 201
n-Hexane	PFB	Ave	++++ 56000 3635030	2953 129009	6125 275669	11043 614273	28927 1324705	++++ 1.98 99.2	0.0992 4.96	0.198 9.92	0.397 19.8	0.992 39.7
Tert-butyl ethyl ether	PFB	Ave	++++ 45875 3232739	2088 112855	4195 226568	8414 527918	20935 1144783	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
2,2-Dichloropropane	PFB	Ave	++++ 51377 3978643	2894 124691	6486 268491	10125 601309	24393 1356468	++++ 2.00 100	0.100 5.01	0.200 10.0	0.400 20.0	1.00 40.0
2-Butanone	PFB	Lin1	++++ 6580 411422	254 15275	779 30770	1411 70046	3538 146962	++++ 10.0 500	0.500 25.0	1.00 50.0	2.00 100	5.00 200
Chlorobromomethane	PFB	Ave	++++ 27033 2173216	1322 66056	2587 146017	5277 309414	13908 701750	++++ 2.00 100	0.100 5.01	0.200 10.0	0.401 20.0	1.00 40.1
cis-1,2-Dichloroethene	PFB	Ave	++++ 47929 3598012	2250 112890	4608 243142	8750 540896	23856 1222812	++++ 2.00 99.8	0.0998 4.99	0.200 9.98	0.399 20.0	0.998 39.9
Carbon tetrachloride	PFB	Lin1	++++ 50839 4309451	3450 122729	4847 275585	8107 624059	23398 1422603	++++ 2.00 100	0.100 5.01	0.200 10.0	0.400 20.0	1.00 40.0
1,2-Dichloroethane	PFB	Ave	++++ 62362 3961807	3062 146656	6885 312739	13289 661446	32478 1431109	++++ 2.00 100.0	0.1000 5.00	0.200 10.00	0.400 20.0	1.000 40.0
Tert-amyl methyl ether	PFB	Ave	++++ 97528 7786687	5113 255002	10008 531412	18362 1221423	48262 2655247	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Chloroform	PFB	Ave	++++ 80708 5419553	3702 193491	8298 406648	15933 884425	40305 1921531	++++ 2.00 100	0.100 5.01	0.200 10.0	0.400 20.0	1.00 40.0
1,1,1-Trichloroethane	PFB	Ave	++++ 60639 4671878	2906 146613	6360 323637	11117 720783	28666 1614961	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
1,1-Dichloropropene	PFB	Ave	++++ 59658 4346916	3303 146505	6731 309773	11227 688675	31499 1529156	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Benzene	PFB	Ave	++++ 179152 10883256	9941 423854	19445 913039	35192 1943297	88183 4290696	++++ 2.00 100.0	0.1000 5.00	0.200 10.00	0.400 20.0	1.000 40.0
1,2-Dichloropropane	DFB	Ave	++++ 47390 3208570	2699 119680	5292 250119	9941 546124	26009 1209097	++++ 2.01 100	0.100 5.01	0.201 10.0	0.401 20.1	1.00 40.1
1,4-Dioxane	DFB	Lin1	++++ 872 65834	87 2548	124 5040	184 11037	436 23679	++++ 50.1 2504	2.50 125	5.01 250	10.0 501	25.0 1001

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
Dibromomethane	DFB	Ave	++++ 19948 1541299	899 49326	1757 108838	4346 233602	10244 523534	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Dichlorobromomethane	DFB	Lin1	++++ 47162 4035041	1851 121169	4370 270744	8815 620189	22100 1386472	++++ 2.00 100	0.100 5.01	0.200 10.0	0.400 20.0	1.00 40.0
Trichloroethene	DFB	Ave	++++ 40582 3228617	2724 95237	4371 210505	7419 459718	21152 1042693	++++ 2.00 100	0.100 5.01	0.200 10.0	0.400 20.0	1.00 40.0
cis-1,3-Dichloropropene	DFB	Lin1	++++ 53713 4703446	2099 141231	4543 318237	9090 737626	25443 1636904	++++ 1.96 98.2	0.0982 4.91	0.196 9.82	0.393 19.6	0.982 39.3
4-Methyl-2-pentanone	DFB	Ave	++++ 61770 4406217	2306 157227	5134 335077	10780 757918	28514 1570708	++++ 10.0 500	0.500 25.0	1.00 50.0	2.00 100	5.00 200
trans-1,3-Dichloropropene	DFB	Lin	++++ 41635 4201409	1908 112750	4091 269893	6711 612484	19673 1426328	++++ 2.02 101	0.101 5.05	0.202 10.1	0.404 20.2	1.01 40.4
2-Chloroethyl vinyl ether	DFB	Lin1	++++ 119899 8302292	4508 310956	9886 671072	19425 1551842	56280 3338703	++++ 10.1 503	0.503 25.2	1.01 50.3	2.01 101	5.03 201
1,1,2-Trichloroethane	DFB	Ave	++++ 35331 2426042	1854 84831	3435 177613	7024 386863	17478 841661	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Tetrachloroethene	DFB	Qua2	++++ 37124 ++++	1751 102520	3062 235521	6869 534878	19833 1466349	++++ 2.01 ++++	0.100 5.02	0.201 10.0	0.401 20.1	1.00 40.1
1,3-Dichloropropane	DFB	Ave	++++ 58486 4260574	2687 144583	6399 320785	12152 684867	29632 1499817	++++ 2.00 100	0.100 5.01	0.200 10.0	0.401 20.0	1.00 40.1
2-Hexanone	DFB	Lin1	++++ 55138 4088496	2470 143187	4482 303988	8488 701738	23833 1431887	++++ 10.0 500	0.500 25.0	1.00 50.0	2.00 100	5.00 200
Chlorodibromomethane	DFB	Qua2	++++ 27984 3005135	1185 71604	2368 175329	4903 413980	12892 956777	++++ 1.99 99.3	0.0993 4.96	0.199 9.93	0.397 19.9	0.993 39.7
Toluene	DFB	Ave	++++ 179788 9431235	11166 425116	19297 925538	37132 1998757	91111 4490720	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
1,2-Dibromoethane	DFB	Ave	++++ 34035 2344306	1606 80739	3029 180348	6056 384039	15757 847449	++++ 2.00 100	0.100 5.01	0.200 10.0	0.400 20.0	1.00 40.0
1,1,1,2-Tetrachloroethane	DCB	Qua2	++++ 34656 3575274	1703 90226	3306 208691	6548 482586	16390 1210087	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Bromoform	DCB	Lin	++++ 12036 1655294	624 34368	1037 82146	1944 205610	5585 485741	++++ 2.03 102	0.102 5.08	0.203 10.2	0.406 20.3	1.02 40.6
Chlorobenzene	DCB	Lin2	++++ 128288 8345385	18053 300327	22275 630748	34875 1338961	68846 3025355	++++ 2.00 99.8	0.0998 4.99	0.200 9.98	0.399 20.0	0.998 39.9
Ethylbenzene	DCB	Ave	++++ 188420 9991188	9185 474184	19847 1047838	36687 2368236	93453 5539904	++++ 2.00 100	0.100 5.01	0.200 10.0	0.401 20.0	1.00 40.1
m-Xylene & p-Xylene	DCB	Ave	++++ 293590 ++++	13157 746841	26102 1636945	51519 3774857	140673 8577327	++++ 4.00 ++++	0.200 10.0	0.400 20.0	0.800 40.0	2.00 80.0
1,1,2,2-Tetrachloroethane	DCB	Ave	++++ 47066 3245750	2201 108560	4739 238893	9786 518872	22033 1084568	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
trans-1,4-Dichloro-2-butene	DCB	Ave	++++ 53246 3888694	2457 138052	4411 311737	9308 715811	24483 1520807	++++ 10.0 501	0.501 25.1	1.00 50.1	2.00 100	5.01 200
1,2,3-Trichloropropane	DCB	Ave	++++ 12156 957080	501 28793	1352 62339	2761 141149	5861 331656	++++ 2.00 100	0.100 5.01	0.200 10.0	0.400 20.0	1.00 40.0
o-Xylene	DCB	Ave	++++ 140802 9098242	6515 375388	12514 846925	25282 1900093	64537 4574878	++++ 2.00 100	0.100 5.01	0.200 10.0	0.400 20.0	1.00 40.0
Styrene	DCB	Lin1	++++ 105197 9624469	3707 284348	7522 638006	15941 1513424	45214 3581008	++++ 2.01 100	0.100 5.02	0.201 10.0	0.402 20.1	1.00 40.2
tert-Butylbenzene	DCB	Lin1	++++ 108054 10217196	3632 287077	8434 636064	16393 1517399	49864 3482319	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Isopropylbenzene	DCB	Lin1	++++ 154703 ++++	5523 407268	12130 922410	23862 2154558	69667 4893193	++++ 2.00 ++++	0.1000 5.00	0.200 10.00	0.400 20.0	1.000 40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma

Job No.: 580-19562-1

Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015

GC Column: ZB-624short ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34

Calibration End Date: 06/07/2010 16:46

Calibration ID: 5119

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
sec-Butylbenzene	DCB	Qual	++++ 167332 10570571	5592 456024	12538 1012052	25174 2314640	77092 5303889	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Bromobenzene	DCB	Qual	++++ 42991 4618204	2040 110163	4683 244879	7938 574317	20003 1434786	++++ 2.01 101	0.101 5.03	0.201 10.1	0.402 20.1	1.01 40.2
N-Propylbenzene	DCB	Ave	++++ 231148 ++++	9095 611070	19018 1331078	38070 2953516	107583 6711757	++++ 2.00 ++++	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
2-Chlorotoluene	DCB	Qua2	++++ 43212 4021339	1687 111118	3836 242369	8172 534582	21164 1241293	++++ 2.01 100	0.100 5.02	0.201 10.0	0.402 20.1	1.00 40.2
1,3,5-Trimethylbenzene	DCB	Qual	++++ 142208 9242659	4711 367205	10542 817940	22852 1818409	65649 4226290	++++ 2.00 100	0.100 5.01	0.200 10.0	0.400 20.0	1.00 40.0
4-Chlorotoluene	DCB	Lin1	++++ 44877 3855498	1754 112179	4044 246699	7657 532546	21064 1248913	++++ 2.01 100	0.100 5.01	0.201 10.0	0.401 20.1	1.00 40.1
1,2-Dibromo-3-Chloropropane	DCB	Lin1	++++ 4687 452615	++++ 11205	489 27873	776 67532	2156 152591	++++ 2.00 100.0	++++ 5.00	0.200 10.00	0.400 20.0	1.000 40.0
1,2,4-Trimethylbenzene	DCB	Qual	++++ 141017 9380797	4779 378305	9468 854277	20740 1900436	62072 4381035	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Hexachloroethane	DCB	Qual	++++ 20030 2487501	949 57972	2161 132860	3739 323247	8813 787606	++++ 1.99 99.3	0.0993 4.97	0.199 9.93	0.397 19.9	0.993 39.7
4-Isopropyltoluene	DCB	Lin1	++++ 133556 10803478	4252 355764	8753 820748	17378 1902065	54318 4492831	++++ 2.00 99.9	0.0999 5.00	0.200 9.99	0.400 20.0	0.999 40.0
1,3-Dichlorobenzene	DCB	Ave	++++ 84263 7618359	3631 221303	8463 474062	16209 1048396	43378 2487312	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
1,4-Dichlorobenzene	DCB	Ave	++++ 95933 7599558	5235 231349	10126 492732	19000 1084038	48804 2476963	++++ 2.00 99.9	0.0999 5.00	0.200 9.99	0.400 20.0	0.999 40.0
n-Butylbenzene	DCB	Qua2	++++ 31355 3187243	1322 87697	2958 193119	5454 439510	14440 1010510	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 65110

SDG No.: _____

Instrument ID: SEA015 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/07/2010 12:34 Calibration End Date: 06/07/2010 16:46 Calibration ID: 5119

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
1,2-Dichlorobenzene	DCB	Ave	++++ 80038 6768007	3897 200731	7883 435216	15497 954147	38740 2158790	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
1,3,5-Trichlorobenzene	DCB	Qua2	++++ 54218 5270974	2426 134848	4984 302579	8989 693764	25215 1610441	++++ 1.99 99.3	0.0993 4.96	0.199 9.93	0.397 19.9	0.993 39.7
Hexachlorobutadiene	DCB	Ave	++++ 18533 1554908	874 43288	1662 100014	3359 223279	9264 516054	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
Naphthalene	DCB	Lin1	++++ 75164 8859071	2726 223852	5362 561439	11843 1342032	32324 2998408	++++ 2.00 100	0.100 5.01	0.200 10.0	0.401 20.0	1.00 40.1
1,2,3-Trichlorobenzene	DCB	Qua2	++++ 39393 3925102	1919 107295	3304 244101	6627 551434	18348 1265621	++++ 2.00 100	0.100 5.00	0.200 10.0	0.400 20.0	1.00 40.0
1,2,4-Trichlorobenzene	DCB	Qua2	++++ 42108 4680171	2174 114985	4170 264179	7200 616284	20717 1434575	++++ 2.00 100	0.100 5.01	0.200 10.0	0.401 20.0	1.00 40.1
Fluorobenzene (Surr)	PFB	Ave	++++ 637308 750918	655648 649544	547886 676971	633271 695397	624221 710704	++++ 5.00 5.00	5.00 5.00	5.00 5.00	5.00 5.00	5.00 5.00
Trifluorotoluene (Surr)	DFB	Qua2	++++ 61427 5972030	3396 153752	6291 313541	12471 764798	32165 1770882	++++ 2.00 100	0.100 5.01	0.200 10.0	0.401 20.0	1.00 40.1
Toluene-d8 (Surr)	DFB	Ave	624460 609984 751499	620827 623909	515200 657794	596526 671780	586547 697801	5.01 5.01 5.01	5.01 5.01	5.01 5.01	5.01 5.01	5.01 5.01
Ethylbenzene-d10	DCB	Ave	++++ 204236 340652	199111 207990	167120 222523	191675 246570	187940 267874	++++ 5.00 5.00	5.00 5.00	5.00 5.00	5.00 5.00	5.00 5.00
4-Bromofluorobenzene (Surr)	DCB	Ave	++++ 157062 191190	153171 171980	131962 179647	152879 180120	150217 186099	++++ 5.01 5.01	5.01 5.01	5.01 5.01	5.01 5.01	5.01 5.01

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua1 = Quadratic 1/conc ISTD
Qua2 = Quadratic 1/conc^2 ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: ICV 580-65110/15 Calibration Date: 06/07/2010 18:02
 Instrument ID: SEA015 Calib Start Date: 06/07/2010 12:34
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 06/07/2010 16:46
 Lab File ID: I0314418.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	0.6231	0.5486		6.93	7.87	-12.0	25.0
Chloromethane	Lin1		0.5314	0.1000	7.92	7.99	-0.9	25.0
Vinyl chloride	Lin1		0.4933		7.68	7.99	-3.9	25.0
Bromomethane	Lin		0.4504		8.55	7.99	7.0	25.0
Chloroethane	Lin		0.0988		9.15	8.01	14.2	25.0
Trichlorofluoromethane	Ave	0.8650	0.8330		7.63	7.92	-3.7	25.0
Acrolein	Lin1		0.0114		12.4	40.5	-69.3*	40.0
1,1-Dichloroethene	Lin1		0.4553		9.36	7.92	18.2	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.4390	0.4876		8.93	8.04	11.1	40.0
Acetone	Qual		0.0674		8.04	8.01	0.4	25.0
Iodomethane	Qua2		1.007		7.45	7.96	-6.4	40.0
Carbon disulfide	Ave	1.220	1.107		7.25	7.99	-9.3	25.0
Methylene Chloride	Lin1		0.4958		9.04	8.00	13.0	25.0
2-Methyl-2-propanol	Lin1		0.0080		31.5	40.0	-21.2	40.0
Acrylonitrile	Ave	0.0992	0.0831		33.5	39.9	-16.2	40.0
Methyl tert-butyl ether	Ave	0.9292	0.8681		7.47	8.00	-6.6	25.0
trans-1,2-Dichloroethene	Ave	0.3761	0.3797		8.08	8.00	0.9	25.0
1,1-Dichloroethane	Ave	0.7058	0.7018	0.1000	7.93	7.97	-0.6	25.0
Vinyl acetate	Ave	0.0409	0.0459		8.99	8.00	12.3	40.0
Tert-butyl ethyl ether	Ave	0.3799	0.3860		8.13	8.00	1.6	40.0
2,2-Dichloropropane	Ave	0.4659	0.4061		6.97	8.00	-12.8	25.0
2-Butanone	Lin1		0.0112		8.31	8.00	3.9	25.0
cis-1,2-Dichloroethene	Ave	0.4066	0.4110		8.09	8.00	1.1	25.0
Chlorobromomethane	Ave	0.2362	0.2451		8.24	7.94	3.8	25.0
Chloroform	Ave	0.6771	0.6902		8.14	7.99	1.9	25.0
1,1,1-Trichloroethane	Ave	0.5274	0.5435		8.24	8.00	3.1	25.0
1,1-Dichloropropene	Ave	0.5302	0.5301		7.96	7.96	0.0	25.0
Carbon tetrachloride	Lin1		0.4627		7.07	8.00	-11.6	25.0
Benzene	Ave	1.525	1.514		7.95	8.00	-0.7	25.0
1,2-Dichloroethane	Ave	0.5306	0.5003		7.55	8.00	-5.7	25.0
Tert-amyl methyl ether	Ave	0.8777	0.8951		8.16	8.00	2.0	40.0
Trichloroethene	Ave	0.2078	0.1970		7.59	8.01	-5.2	25.0
1,2-Dichloropropane	Ave	0.2409	0.2224		7.39	8.00	-7.7	25.0
1,4-Dioxane	Lin1		0.0001		40.1	160	-74.9*	40.0
Dibromomethane	Ave	0.0989	0.1035		8.26	7.89	4.7	25.0
Dichlorobromomethane	Lin1		0.2496		6.75	8.00	-15.7	25.0
2-Chloroethyl vinyl ether	Lin1		0.0960		6.15	7.96	-22.7	40.0
cis-1,3-Dichloropropene	Lin1		0.2628		6.27	8.41	-25.5*	25.0
4-Methyl-2-pentanone	Ave	0.0578	0.0548		7.53	7.96	-5.3	25.0
Toluene	Ave	0.8774	0.8622		7.87	8.01	-1.7	25.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: ICV 580-65110/15 Calibration Date: 06/07/2010 18:02
 Instrument ID: SEA015 Calib Start Date: 06/07/2010 12:34
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 06/07/2010 16:46
 Lab File ID: I0314418.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
trans-1,3-Dichloropropene	Lin		0.2221		6.55	7.60	-13.9	25.0
1,1,2-Trichloroethane	Ave	0.1698	0.1630		7.58	7.89	-4.0	25.0
Tetrachloroethene	Qua2		0.2079		8.33	8.01	4.0	25.0
1,3-Dichloropropane	Ave	0.2920	0.2845		7.76	7.96	-2.6	25.0
2-Hexanone	Lin1		0.0502		6.72	7.85	-14.3	25.0
Chlorodibromomethane	Qua2		0.1499		8.00	7.84	1.9	25.0
1,2-Dibromoethane	Ave	0.1596	0.1597		7.93	7.92	0.1	25.0
Chlorobenzene	Lin2		1.245	0.3000	8.00	8.00	0.1	25.0
1,1,1,2-Tetrachloroethane	Qua2		0.4113		8.49	7.87	7.9	25.0
Ethylbenzene	Ave	1.966	2.088		8.49	8.00	6.2	25.0
m-Xylene & p-Xylene	Ave	1.508	1.619		17.2	16.0	7.3	25.0
o-Xylene	Ave	1.491	1.642		8.72	7.92	10.1	25.0
Styrene	Lin1		1.271		7.03	7.98	-11.9	25.0
Bromoform	Lin		0.1543	0.1000	6.94	8.00	-13.3	25.0
Isopropylbenzene	Lin1		1.687		6.89	8.00	-13.9	25.0
1,1,2,2-Tetrachloroethane	Ave	0.4723	0.4490	0.3000	7.48	7.87	-4.9	25.0
Bromobenzene	Qual		0.4815		7.75	7.96	-2.7	25.0
trans-1,4-Dichloro-2-butene	Ave	0.1105	0.1178		8.45	7.93	6.5	40.0
1,2,3-Trichloropropane	Ave	0.1288	0.1191		7.29	7.88	-7.5	25.0
N-Propylbenzene	Ave	2.321	2.434		8.40	8.01	4.8	25.0
2-Chlorotoluene	Qua2		0.4837		8.43	7.91	6.6	25.0
1,3,5-Trimethylbenzene	Qual		1.640		7.57	7.91	-4.3	25.0
4-Chlorotoluene	Lin1		0.4845		6.88	7.88	-12.7	25.0
tert-Butylbenzene	Lin1		1.309		6.95	7.92	-12.2	25.0
1,2,4-Trimethylbenzene	Qual		1.728		7.75	8.00	-3.1	25.0
sec-Butylbenzene	Qual		2.022		7.42	8.01	-7.3	25.0
4-Isopropyltoluene	Lin1		1.611		7.48	7.96	-6.0	25.0
1,3-Dichlorobenzene	Ave	0.9222	0.8988		7.79	7.99	-2.5	25.0
1,4-Dichlorobenzene	Ave	1.022	0.9740		7.63	8.00	-4.7	25.0
n-Butylbenzene	Qua2		0.3811		8.81	8.00	10.0	25.0
1,2-Dichlorobenzene	Ave	0.8518	0.8359		7.84	7.99	-1.9	25.0
1,2-Dibromo-3-Chloropropane	Lin1		0.0478		5.89	8.00	-26.4*	25.0
1,2,4-Trichlorobenzene	Qua2		0.5133		8.70	7.94	9.5	25.0
Hexachlorobutadiene	Ave	0.1936	0.2021		8.19	7.85	4.4	25.0
Naphthalene	Lin1		1.079		6.75	8.01	-15.8	25.0
1,2,3-Trichlorobenzene	Qua2		0.4739		8.91	8.02	11.1	25.0
Fluorobenzene (Surr)	Ave	2.100	2.143		5.11	5.00	2.1	25.0
Trifluorotoluene (Surr)	Qua2		0.2940		2.02	2.00	1.0	25.0
Toluene-d8 (Surr)	Ave	1.137	1.153		5.08	5.01	1.5	25.0
Ethylbenzene-d10	Ave	0.8453	0.8468		5.01	5.00	0.2	25.0
4-Bromofluorobenzene (Surr)	Ave	0.6303	0.6687		5.32	5.01	6.1	25.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-65110/17
 Matrix: Water Lab File ID: I0314420.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 10 (mL) Date Analyzed: 06/07/2010 18:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65110 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	ND		0.10	0.10
75-01-4	Vinyl chloride	ND		0.020	0.020
179601-23-1	m-Xylene & p-Xylene	ND		0.20	0.20
95-47-6	o-Xylene	ND		0.10	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.10	0.10
108-88-3	Toluene	ND		0.10	0.10
75-35-4	1,1-Dichloroethene	ND		0.10	0.10
107-06-2	1,2-Dichloroethane	ND		0.10	0.10
127-18-4	Tetrachloroethene	ND		0.10	0.10
79-01-6	Trichloroethene	ND		0.10	0.10
100-41-4	Ethylbenzene	ND		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	ND		0.10	0.10
1634-04-4	Methyl tert-butyl ether	ND		0.10	0.10
1330-20-7	Xylenes, Total	ND		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	106	80-125	
462-06-6	Fluorobenzene (Surr)	103	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	97	75-120	
2037-26-5	Toluene-d8 (Surr)	93	75-125	
25837-05-2	Ethylbenzene-d10	96	75-125	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-65110/18
 Matrix: Water Lab File ID: I0314421.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 10 (mL) Date Analyzed: 06/07/2010 19:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65110 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	5.24		0.10	0.10
75-01-4	Vinyl chloride	5.55		0.020	0.020
179601-23-1	m-Xylene & p-Xylene	10.7		0.20	0.20
95-47-6	o-Xylene	5.28		0.10	0.10
156-59-2	cis-1,2-Dichloroethene	5.20		0.10	0.10
108-88-3	Toluene	5.06		0.10	0.10
75-35-4	1,1-Dichloroethene	6.59		0.10	0.10
107-06-2	1,2-Dichloroethane	4.99		0.10	0.10
127-18-4	Tetrachloroethene	6.24		0.10	0.10
79-01-6	Trichloroethene	5.02		0.10	0.10
100-41-4	Ethylbenzene	5.37		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	5.34		0.10	0.10
1634-04-4	Methyl tert-butyl ether	4.85		0.10	0.10
1330-20-7	Xylenes, Total	16.0		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	106	80-125	
462-06-6	Fluorobenzene (Surr)	103	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	104	75-120	
2037-26-5	Toluene-d8 (Surr)	99	75-125	
25837-05-2	Ethylbenzene-d10	97	75-125	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-65110/19
 Matrix: Water Lab File ID: I0314422.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 10 (mL) Date Analyzed: 06/07/2010 19:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65110 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	5.02		0.10	0.10
75-01-4	Vinyl chloride	5.35		0.020	0.020
179601-23-1	m-Xylene & p-Xylene	10.5		0.20	0.20
95-47-6	o-Xylene	5.12		0.10	0.10
156-59-2	cis-1,2-Dichloroethene	5.01		0.10	0.10
108-88-3	Toluene	4.93		0.10	0.10
75-35-4	1,1-Dichloroethene	6.29		0.10	0.10
107-06-2	1,2-Dichloroethane	4.83		0.10	0.10
127-18-4	Tetrachloroethene	6.68		0.10	0.10
79-01-6	Trichloroethene	5.04		0.10	0.10
100-41-4	Ethylbenzene	5.22		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	5.12		0.10	0.10
1634-04-4	Methyl tert-butyl ether	4.76		0.10	0.10
1330-20-7	Xylenes, Total	15.6		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	104	80-125	
462-06-6	Fluorobenzene (Surr)	103	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	102	75-120	
2037-26-5	Toluene-d8 (Surr)	100	75-125	
25837-05-2	Ethylbenzene-d10	99	75-125	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W MS Lab Sample ID: 580-19562-3 MS
 Matrix: Water Lab File ID: I0314429.D
 Analysis Method: 8260B Date Collected: 05/24/2010 10:34
 Sample wt/vol: 10 (mL) Date Analyzed: 06/07/2010 22:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65110 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	5.08		0.10	0.10
75-01-4	Vinyl chloride	6.59		0.020	0.020
179601-23-1	m-Xylene & p-Xylene	10.2		0.20	0.20
95-47-6	o-Xylene	4.97		0.10	0.10
156-59-2	cis-1,2-Dichloroethene	5.16		0.10	0.10
108-88-3	Toluene	4.81		0.10	0.10
75-35-4	1,1-Dichloroethene	6.51		0.10	0.10
107-06-2	1,2-Dichloroethane	4.73		0.10	0.10
127-18-4	Tetrachloroethene	3.93		0.10	0.10
79-01-6	Trichloroethene	5.14		0.10	0.10
100-41-4	Ethylbenzene	5.04		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	5.40		0.10	0.10
1634-04-4	Methyl tert-butyl ether	4.79		0.10	0.10
1330-20-7	Xylenes, Total	15.2		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	106	80-125	
462-06-6	Fluorobenzene (Surr)	100	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	106	75-120	
2037-26-5	Toluene-d8 (Surr)	98	75-125	
25837-05-2	Ethylbenzene-d10	91	75-125	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W MSD Lab Sample ID: 580-19562-3 MSD
 Matrix: Water Lab File ID: I0314430.D
 Analysis Method: 8260B Date Collected: 05/24/2010 10:34
 Sample wt/vol: 10 (mL) Date Analyzed: 06/07/2010 23:05
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624short ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65110 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	5.08		0.10	0.10
75-01-4	Vinyl chloride	6.50		0.020	0.020
179601-23-1	m-Xylene & p-Xylene	10.2		0.20	0.20
95-47-6	o-Xylene	5.01		0.10	0.10
156-59-2	cis-1,2-Dichloroethene	5.14		0.10	0.10
108-88-3	Toluene	4.78		0.10	0.10
75-35-4	1,1-Dichloroethene	6.63		0.10	0.10
107-06-2	1,2-Dichloroethane	4.76		0.10	0.10
127-18-4	Tetrachloroethene	3.87		0.10	0.10
79-01-6	Trichloroethene	5.19		0.10	0.10
100-41-4	Ethylbenzene	4.97		0.10	0.10
156-60-5	trans-1,2-Dichloroethene	5.24		0.10	0.10
1634-04-4	Methyl tert-butyl ether	4.76		0.10	0.10
1330-20-7	Xylenes, Total	15.2		0.10	0.10

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	Trifluorotoluene (Surr)	102	80-125	
462-06-6	Fluorobenzene (Surr)	101	70-130	
460-00-4	4-Bromofluorobenzene (Surr)	110	75-120	
2037-26-5	Toluene-d8 (Surr)	99	75-125	
25837-05-2	Ethylbenzene-d10	95	75-125	

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Instrument ID: SEA015 Start Date: 06/07/2010 12:09Analysis Batch Number: 65110 End Date: 06/08/2010 00:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-65110/1		06/07/2010 12:09	1	I0314404.D	ZB-624short 0.18 (mm)
STD 580-65110/2 IC		06/07/2010 12:34	1	I0314405.D	ZB-624short 0.18 (mm)
BFB 580-65110/37		06/07/2010 12:34	1	I0314405BFB.D	ZB-624short 0.18 (mm)
STD 580-65110/3 IC		06/07/2010 13:00	1	I0314406.D	ZB-624short 0.18 (mm)
STD 580-65110/4 IC		06/07/2010 13:25	1	I0314407.D	ZB-624short 0.18 (mm)
STD 580-65110/5 IC		06/07/2010 13:50	1	I0314408.D	ZB-624short 0.18 (mm)
STD001 580-65110/6 IC		06/07/2010 14:15	1	I0314409.D	ZB-624short 0.18 (mm)
STD002 580-65110/7 IC		06/07/2010 14:40	1	I0314410.D	ZB-624short 0.18 (mm)
ICIS 580-65110/8		06/07/2010 15:05	1	I0314411.D	ZB-624short 0.18 (mm)
STD010 580-65110/9 IC		06/07/2010 15:30	1	I0314412.D	ZB-624short 0.18 (mm)
STD020 580-65110/10 IC		06/07/2010 15:56	1	I0314413.D	ZB-624short 0.18 (mm)
STD040 580-65110/11 IC		06/07/2010 16:21	1	I0314414.D	ZB-624short 0.18 (mm)
STD100 580-65110/12 IC		06/07/2010 16:46	1	I0314415.D	ZB-624short 0.18 (mm)
ICV 580-65110/15		06/07/2010 18:02	1	I0314418.D	ZB-624short 0.18 (mm)
MB 580-65110/17		06/07/2010 18:52	1	I0314420.D	ZB-624short 0.18 (mm)
LCS 580-65110/18		06/07/2010 19:17	1	I0314421.D	ZB-624short 0.18 (mm)
LCSD 580-65110/19		06/07/2010 19:42	1	I0314422.D	ZB-624short 0.18 (mm)
ZZZZZ		06/07/2010 20:33	1		ZB-624short 0.18 (mm)
580-19562-6	Trip Blank	06/07/2010 20:58	1	I0314425.D	ZB-624short 0.18 (mm)
580-19562-1	MW3-052410-W	06/07/2010 21:24	1	I0314426.D	ZB-624short 0.18 (mm)
580-19562-2	MW18-052410-W	06/07/2010 21:49	1	I0314427.D	ZB-624short 0.18 (mm)
580-19562-3	MW16-052410-W	06/07/2010 22:14	1	I0314428.D	ZB-624short 0.18 (mm)
580-19562-3 MS	MW16-052410-W MS	06/07/2010 22:40	1	I0314429.D	ZB-624short 0.18 (mm)
580-19562-3 MSD	MW16-052410-W MSD	06/07/2010 23:05	1	I0314430.D	ZB-624short 0.18 (mm)
580-19562-4	MW8-052410-W	06/07/2010 23:31	1	I0314431.D	ZB-624short 0.18 (mm)
580-19562-5	Dupe1-052410-W	06/07/2010 23:56	1	I0314432.D	ZB-624short 0.18 (mm)
580-19562-7	MW17-052410-W	06/08/2010 00:22	1	I0314433.D	ZB-624short 0.18 (mm)

Method 8270C SIM

Semivolatile Organic Compounds
(GC/MS SIM) by Method 8270C (SIM)

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): DB-5MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	TPH #
MW3-052410-W	580-19562-1	80
MW18-052410-W	580-19562-2	90
MW16-052410-W	580-19562-3	91
MW8-052410-W	580-19562-4	89
Dupe1-052410-W	580-19562-5	84
MW17-052410-W	580-19562-7	82
	MB 580-64459/1-A	84
	LCS 580-64459/2-A	86
MW16-052410-W MS	580-19562-3 MS	83
MW16-052410-W MSD	580-19562-3 MSD	79

TPH = Terphenyl-d14

QC LIMITS
60-140

Column to be used to flag recovery values

FORM II 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: HP24704.D

Lab ID: LCS 580-64459/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzo[a]anthracene	1.00	0.989	99	60-140	
Benzo[b]fluoranthene	1.00	0.915	92	60-140	
Benzo[k]fluoranthene	1.00	1.04	104	60-140	
Chrysene	1.00	0.913	91	60-140	
Indeno[1,2,3-cd]pyrene	1.00	0.897	89	60-140	
Benzo[a]pyrene	1.00	0.974	97	60-140	
Dibenz(a,h)anthracene	1.00	0.893	89	60-140	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: HP24716.D
 Lab ID: 580-19562-3 MS Client ID: MW16-052410-W MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Benzo[a]anthracene	0.943	ND	0.839	89	60-140	
Benzo[b]fluoranthene	0.943	ND	0.774	82	60-140	
Benzo[k]fluoranthene	0.943	ND	0.766	81	60-140	
Chrysene	0.947	ND	0.741	78	60-140	
Indeno[1,2,3-cd]pyrene	0.946	ND	0.748	79	60-140	
Benzo[a]pyrene	0.943	ND	0.755	80	60-140	
Dibenz(a,h)anthracene	0.946	ND	0.747	79	60-140	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: HP24717.D
 Lab ID: 580-19562-3 MSD Client ID: MW16-052410-W MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Benzo[a]anthracene	0.943	0.876	93	4	20	60-140	
Benzo[b]fluoranthene	0.943	0.749	79	3	20	60-140	
Benzo[k]fluoranthene	0.943	0.794	84	4	20	60-140	
Chrysene	0.947	0.789	83	6	20	60-140	
Indeno[1,2,3-cd]pyrene	0.946	0.872	92	15	20	60-140	
Benzo[a]pyrene	0.943	0.800	85	6	20	60-140	
Dibenz(a,h)anthracene	0.946	0.881	93	17	20	60-140	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab File ID: HP24703.D Lab Sample ID: MB 580-64459/1-A
 Matrix: Water Date Extracted: 05/26/2010 17:40
 Instrument ID: TAC023 Date Analyzed: 06/07/2010 11:16
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-64459/2-A	HP24704.D	06/07/2010 11:35
MW16-052410-W	580-19562-3	HP24715.D	06/07/2010 15:46
MW16-052410-W MS	580-19562-3 MS	HP24716.D	06/07/2010 16:05
MW16-052410-W MSD	580-19562-3 MSD	HP24717.D	06/07/2010 16:25
MW3-052410-W	580-19562-1	HP24718.D	06/07/2010 17:08
MW18-052410-W	580-19562-2	HP24719.D	06/07/2010 17:28
MW8-052410-W	580-19562-4	HP24720.D	06/07/2010 17:47
Dupe1-052410-W	580-19562-5	HP24721.D	06/07/2010 18:07
MW17-052410-W	580-19562-7	HP24722.D	06/07/2010 18:27

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab File ID: HP24680.D DFTPP Injection Date: 06/04/2010
 Instrument ID: TAC023 DFTPP Injection Time: 13:37
 Analysis Batch No.: 65003

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	24.4
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	32.2
70	Less than 2.0 % of mass 69	0.2 (0.5)1
127	10.0 - 80.0 % of mass 198	42.8
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.9
275	10.0 - 60.0 % of mass 198	32.6
365	Greater than 1.0 % of mass 198	4.8
441	Present but less than mass 443	26.3
442	Greater than 50.0 % of mass 198	167.4
443	15.0 - 24.0 % of mass 442	33.1 (19.8)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 580-65003/4	HP24682.D	06/04/2010	14:10
	IC 580-65003/5	HP24683.D	06/04/2010	14:29
	IC 580-65003/6	HP24684.D	06/04/2010	14:49
	IC 580-65003/7	HP24685.D	06/04/2010	15:09
	ICIS 580-65003/8	HP24686.D	06/04/2010	15:28
	IC 580-65003/9	HP24687.D	06/04/2010	15:48
	IC 580-65003/10	HP24688.D	06/04/2010	16:08
	IC 580-65003/11	HP24689.D	06/04/2010	16:27

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab File ID: HP24701.D DFTPP Injection Date: 06/07/2010
 Instrument ID: TAC023 DFTPP Injection Time: 10:11
 Analysis Batch No.: 65102

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	24.5
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	31.9
70	Less than 2.0 % of mass 69	0.2 (0.5) 1
127	10.0 - 80.0 % of mass 198	42.4
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.0
275	10.0 - 60.0 % of mass 198	32.2
365	Greater than 1.0 % of mass 198	4.5
441	Present but less than mass 443	26.9
442	Greater than 50.0 % of mass 198	168.4
443	15.0 - 24.0 % of mass 442	33.6 (20.0) 2

1-Value is % mass 69

2-Value is % mass 442

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 580-65102/3	HP24702.D	06/07/2010	10:37
	MB 580-64459/1-A	HP24703.D	06/07/2010	11:16
	LCS 580-64459/2-A	HP24704.D	06/07/2010	11:35
MW16-052410-W	580-19562-3	HP24715.D	06/07/2010	15:46
MW16-052410-W MS	580-19562-3 MS	HP24716.D	06/07/2010	16:05
MW16-052410-W MSD	580-19562-3 MSD	HP24717.D	06/07/2010	16:25
MW3-052410-W	580-19562-1	HP24718.D	06/07/2010	17:08
MW18-052410-W	580-19562-2	HP24719.D	06/07/2010	17:28
MW8-052410-W	580-19562-4	HP24720.D	06/07/2010	17:47
Dupe1-052410-W	580-19562-5	HP24721.D	06/07/2010	18:07
MW17-052410-W	580-19562-7	HP24722.D	06/07/2010	18:27

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Sample No.: CCVIS 580-65102/3 Date Analyzed: 06/07/2010 10:37
 Instrument ID: TAC023 GC Column: DB-5MS ID: 0.25 (mm)
 Lab File ID (Standard): HP24702.D Heated Purge: (Y/N) N
 Calibration ID: 5104

	DCB		NPT		ANT			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	29084	3.90	41952	4.89	22651	6.31		
UPPER LIMIT								
LOWER LIMIT								
LAB SAMPLE ID	CLIENT SAMPLE ID							
MB 580-64459/1-A			21041	3.90	46474	4.89	24440	6.31
LCS 580-64459/2-A			33176	3.90	47092	4.89	25593	6.31
580-19562-3	MW16-052410-W		15137	3.89	35578	4.89	20170	6.31
580-19562-3 MS	MW16-052410-W MS		36587	3.90	49470	4.89	29439	6.31
580-19562-3 MSD	MW16-052410-W MSD		29571	3.90	42833	4.89	24464	6.31
580-19562-1	MW3-052410-W		19488	3.90	45998	4.89	28483	6.32
580-19562-2	MW18-052410-W		20239	3.90	47615	4.89	31761	6.31
580-19562-4	MW8-052410-W		21398	3.90	49149	4.89	26867	6.31
580-19562-5	Dupe1-052410-W		21188	3.90	48552	4.89	26386	6.31
580-19562-7	MW17-052410-W		22760	3.90	52660	4.89	32737	6.31

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Sample No.: CCVIS 580-65102/3 Date Analyzed: 06/07/2010 10:37
 Instrument ID: TAC023 GC Column: DB-5MS ID: 0.25 (mm)
 Lab File ID (Standard): HP24702.D Heated Purge: (Y/N) N
 Calibration ID: 5104

	PHN		CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	37867	7.54	32832	9.77	20247	11.28		
UPPER LIMIT								
LOWER LIMIT								
LAB SAMPLE ID	CLIENT SAMPLE ID							
MB 580-64459/1-A			41271	7.54	30754	9.77	19455	11.28
LCS 580-64459/2-A			44122	7.54	40729	9.76	26335	11.27
580-19562-3	MW16-052410-W		34204	7.54	31668	9.77	24597	11.28
580-19562-3 MS	MW16-052410-W MS		49189	7.54	45905	9.76	32581	11.28
580-19562-3 MSD	MW16-052410-W MSD		44341	7.54	41288	9.77	33562	11.28
580-19562-1	MW3-052410-W		49028	7.54	41586	9.78	30295	11.28
580-19562-2	MW18-052410-W		46431	7.54	41603	9.77	35109	11.28
580-19562-4	MW8-052410-W		47144	7.54	42972	9.77	32320	11.28
580-19562-5	Dupe1-052410-W		47008	7.54	39201	9.77	29051	11.28
580-19562-7	MW17-052410-W		51720	7.54	50184	9.77	35366	11.28

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW3-052410-W Lab Sample ID: 580-19562-1
 Matrix: Water Lab File ID: HP24718.D
 Analysis Method: 8270C Date Collected: 05/24/2010 08:00
 Extract. Method: 3520C Date Extracted: 05/26/2010 17:40
 Sample wt/vol: 1060(mL) Date Analyzed: 06/07/2010 17:08
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 65102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-55-3	Benzo[a]anthracene	ND		0.0094	0.0094
205-99-2	Benzo[b]fluoranthene	ND		0.0094	0.0094
207-08-9	Benzo[k]fluoranthene	ND		0.0094	0.0094
218-01-9	Chrysene	ND		0.0094	0.0094
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.0094	0.0094
50-32-8	Benzo[a]pyrene	ND		0.0094	0.0094
53-70-3	Dibenz(a,h)anthracene	ND		0.0094	0.0094

CAS NO.	SURROGATE	%REC	LIMITS	Q
1718-51-0	Terphenyl-d14	80	60-140	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW18-052410-W Lab Sample ID: 580-19562-2
 Matrix: Water Lab File ID: HP24719.D
 Analysis Method: 8270C Date Collected: 05/24/2010 09:20
 Extract. Method: 3520C Date Extracted: 05/26/2010 17:40
 Sample wt/vol: 1060(mL) Date Analyzed: 06/07/2010 17:28
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 65102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-55-3	Benzo[a]anthracene	ND		0.0094	0.0094
205-99-2	Benzo[b]fluoranthene	ND		0.0094	0.0094
207-08-9	Benzo[k]fluoranthene	ND		0.0094	0.0094
218-01-9	Chrysene	ND		0.0094	0.0094
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.0094	0.0094
50-32-8	Benzo[a]pyrene	ND		0.0094	0.0094
53-70-3	Dibenz(a,h)anthracene	ND		0.0094	0.0094

CAS NO.	SURROGATE	%REC	LIMITS	Q
1718-51-0	Terphenyl-d14	90	60-140	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W Lab Sample ID: 580-19562-3
 Matrix: Water Lab File ID: HP24715.D
 Analysis Method: 8270C Date Collected: 05/24/2010 10:34
 Extract. Method: 3520C Date Extracted: 05/26/2010 17:40
 Sample wt/vol: 1060(mL) Date Analyzed: 06/07/2010 15:46
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 65102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-55-3	Benzo[a]anthracene	ND		0.0094	0.0094
205-99-2	Benzo[b]fluoranthene	ND		0.0094	0.0094
207-08-9	Benzo[k]fluoranthene	ND		0.0094	0.0094
218-01-9	Chrysene	ND		0.0094	0.0094
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.0094	0.0094
50-32-8	Benzo[a]pyrene	ND		0.0094	0.0094
53-70-3	Dibenz(a,h)anthracene	ND		0.0094	0.0094

CAS NO.	SURROGATE	%REC	LIMITS	Q
1718-51-0	Terphenyl-d14	91	60-140	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW8-052410-W Lab Sample ID: 580-19562-4
 Matrix: Water Lab File ID: HP24720.D
 Analysis Method: 8270C Date Collected: 05/24/2010 12:10
 Extract. Method: 3520C Date Extracted: 05/26/2010 17:40
 Sample wt/vol: 1060(mL) Date Analyzed: 06/07/2010 17:47
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 65102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-55-3	Benzo[a]anthracene	ND		0.0094	0.0094
205-99-2	Benzo[b]fluoranthene	ND		0.0094	0.0094
207-08-9	Benzo[k]fluoranthene	ND		0.0094	0.0094
218-01-9	Chrysene	ND		0.0094	0.0094
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.0094	0.0094
50-32-8	Benzo[a]pyrene	ND		0.0094	0.0094
53-70-3	Dibenz(a,h)anthracene	ND		0.0094	0.0094

CAS NO.	SURROGATE	%REC	LIMITS	Q
1718-51-0	Terphenyl-d14	89	60-140	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: Dupe1-052410-W Lab Sample ID: 580-19562-5
 Matrix: Water Lab File ID: HP24721.D
 Analysis Method: 8270C Date Collected: 05/24/2010 00:00
 Extract. Method: 3520C Date Extracted: 05/26/2010 17:40
 Sample wt/vol: 1060 (mL) Date Analyzed: 06/07/2010 18:07
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 65102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-55-3	Benzo[a]anthracene	ND		0.0094	0.0094
205-99-2	Benzo[b]fluoranthene	ND		0.0094	0.0094
207-08-9	Benzo[k]fluoranthene	ND		0.0094	0.0094
218-01-9	Chrysene	ND		0.0094	0.0094
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.0094	0.0094
50-32-8	Benzo[a]pyrene	ND		0.0094	0.0094
53-70-3	Dibenz(a,h)anthracene	ND		0.0094	0.0094

CAS NO.	SURROGATE	%REC	LIMITS	Q
1718-51-0	Terphenyl-d14	84	60-140	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW17-052410-W Lab Sample ID: 580-19562-7
 Matrix: Water Lab File ID: HP24722.D
 Analysis Method: 8270C Date Collected: 05/24/2010 14:20
 Extract. Method: 3520C Date Extracted: 05/26/2010 17:40
 Sample wt/vol: 1060(mL) Date Analyzed: 06/07/2010 18:27
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 65102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-55-3	Benzo[a]anthracene	ND		0.0094	0.0094
205-99-2	Benzo[b]fluoranthene	ND		0.0094	0.0094
207-08-9	Benzo[k]fluoranthene	ND		0.0094	0.0094
218-01-9	Chrysene	ND		0.0094	0.0094
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.0094	0.0094
50-32-8	Benzo[a]pyrene	ND		0.0094	0.0094
53-70-3	Dibenz(a,h)anthracene	ND		0.0094	0.0094

CAS NO.	SURROGATE	%REC	LIMITS	Q
1718-51-0	Terphenyl-d14	82	60-140	

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 65003

SDG No.: _____

Instrument ID: TAC023 GC Column: DB-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2010 14:10 Calibration End Date: 06/04/2010 16:27 Calibration ID: 5104

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-65003/4	HP24682.D
Level 2	IC 580-65003/5	HP24683.D
Level 3	IC 580-65003/6	HP24684.D
Level 4	IC 580-65003/7	HP24685.D
Level 5	ICIS 580-65003/8	HP24686.D
Level 6	IC 580-65003/9	HP24687.D
Level 7	IC 580-65003/10	HP24688.D
Level 8	IC 580-65003/11	HP24689.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Naphthalene	0.9821 1.0278	0.9056 1.0202	1.0021 0.9576	0.9729	1.0481	Ave		0.9895			4.6						
2-Methylnaphthalene	0.4387 0.5641	0.4234 0.5589	0.4813 0.5330	0.4787	0.5423	Lin1	-0.967	0.5429						0.9990			
1-Methylnaphthalene	0.5806 0.6036	0.5743 0.5986	0.5411 0.5672	0.5420	0.5846	Ave		0.5740			4.1						
Acenaphthylene	1.6764 1.8069	1.5846 1.7911	1.6606 1.7185	1.6730	1.7773	Ave		1.7110			4.5						
Acenaphthene	1.1473 1.2044	1.1377 1.1782	1.1325 1.1249	1.1318	1.1881	Ave		1.1556			2.6						
Fluorene	1.1743 1.3654	1.1359 1.3281	1.2180 1.2552	1.2641	1.3600	Ave		1.2626			6.7						
Pentachlorophenol	0.1578 0.2277	0.1412 0.2456	0.1351 0.2828	0.1436	0.2018	Qual	-0.778	0.2079	0					0.9990			
Phenanthrene	0.9400 1.1061	0.9041 1.0987	0.9576 1.0321	0.9918	1.0786	Ave		1.0136			7.6						
Anthracene	1.0010 1.1145	1.0277 1.1052	0.9637 1.0543	0.9561	1.0797	Ave		1.0378			5.9						
Fluoranthene	1.0031 1.1529	0.9700 1.1910	0.9517 1.1601	0.9762	1.1041	Ave		1.0636			9.2						
Pyrene	1.1173 1.2653	1.0395 1.2835	1.0132 1.2544	1.0465	1.1978	Ave		1.1522			9.7						
Benzo[a]anthracene	0.8058 1.1166	0.7296 1.1187	0.7915 1.1123	0.8337	1.0646	Lin1	-3.904	1.1094						0.9990			
Chrysene	1.6898 1.2466	1.5215 1.1849	1.3943 1.0858	1.3259	1.2712	Ave		1.3400			14.0						
Benzo[b]fluoranthene	0.9173 1.4696	0.8709 1.4939	0.9823 1.5242	1.0574	1.3661	Lin1	-6.913	1.4986						0.9980			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 65003

SDG No.: _____

Instrument ID: TAC023 GC Column: DB-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2010 14:10 Calibration End Date: 06/04/2010 16:27 Calibration ID: 5104

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Benzo[k]fluoranthene	1.6253 2.0368	1.5503 1.9811	1.7778 1.6379	1.8951	2.1049	Ave		1.8261			11.0						
Benzo[a]pyrene	0.9489 1.5609	0.9704 1.5591	1.1612 1.4832	1.1858	1.4541	Lin1	-5.181	1.5066						0.9990			
Indeno[1,2,3-cd]pyrene	0.9443 1.5361	0.9623 1.4731	1.0964 1.5889	1.0890	1.3359	Lin1	-6.828	1.5381						0.9970			
Dibenz(a,h)anthracene	0.6671 1.2311	0.7086 1.1775	0.7970 1.2877	0.8006	1.0557	Lin1	-6.550	1.2389						0.9960			
Benzo[g,h,i]perylene	0.9288 1.3577	0.9049 1.2562	1.0483 1.3361	1.0162	1.2063	Lin1	-4.284	1.3105						0.9980			
Nitrobenzene-d5	0.3888 0.3507	0.3021 0.3488	0.3155 0.3417	0.3095	0.3362	Ave		0.3367			8.3						
2-Fluorobiphenyl	1.2874 1.5018	1.3608 1.4689	1.4419 1.4015	1.4512	1.4901	Ave		1.4254			5.1						
2,4,6-Tribromophenol	0.1729 0.3044	0.1727 0.2986	0.2098 0.3140	0.2240	0.2728	Lin1	-1.422	0.3064						0.9980			
Terphenyl-d14	0.6659 0.8681	0.6227 0.9004	0.6542 0.8812	0.6897	0.8222	Ave		0.7631			15.0						

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 65003

SDG No.: _____

Instrument ID: TAC023 GC Column: DB-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2010 14:10 Calibration End Date: 06/04/2010 16:27 Calibration ID: 5104

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-65003/4	HP24682.D
Level 2	IC 580-65003/5	HP24683.D
Level 3	IC 580-65003/6	HP24684.D
Level 4	IC 580-65003/7	HP24685.D
Level 5	ICIS 580-65003/8	HP24686.D
Level 6	IC 580-65003/9	HP24687.D
Level 7	IC 580-65003/10	HP24688.D
Level 8	IC 580-65003/11	HP24689.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Naphthalene	NPT	Ave	2485	3985	22597	44135	239580	5.00	10.0	50.0	100	500
			458265	936314	2299141			1000	2000	5000		
2-Methylnaphthalene	NPT	Lin1	1110	1863	10854	21715	123964	5.00	10.0	50.0	100	500
			251535	512992	1279647			1000	2000	5000		
1-Methylnaphthalene	NPT	Ave	1469	2527	12202	24587	133634	5.00	10.0	50.0	100	500
			269149	549411	1361806			1000	2000	5000		
Acenaphthylene	ANT	Ave	2294	3680	20070	40489	221887	5.00	10.0	50.0	100	500
			450686	923730	2314069			1000	2000	5000		
Acenaphthene	ANT	Ave	1570	2642	13688	27390	148325	5.00	10.0	50.0	100	500
			300399	607644	1514740			1000	2000	5000		
Fluorene	ANT	Ave	1607	2638	14721	30592	169793	5.00	10.0	50.0	100	500
			340564	684970	1690240			1000	2000	5000		
Pentachlorophenol	ANT	Qual	216	328	1633	3476	25193	5.00	10.0	50.0	100	500
			56805	126687	380853			1000	2000	5000		
Phenanthrene	PHN	Ave	2158	3432	19366	40017	219803	5.00	10.0	50.0	100	500
			456709	900861	2293578			1000	2000	5000		
Anthracene	PHN	Ave	2298	3901	19489	38578	220018	5.00	10.0	50.0	100	500
			460162	906233	2342925			1000	2000	5000		
Fluoranthene	PHN	Ave	2303	3682	19246	39387	224996	5.00	10.0	50.0	100	500
			476001	976544	2578047			1000	2000	5000		
Pyrene	PHN	Ave	2565	3946	20490	42223	244090	5.00	10.0	50.0	100	500
			522437	1052374	2787489			1000	2000	5000		
Benzo[a]anthracene	CRY	Lin1	1443	2048	11946	26258	190361	5.00	10.0	50.0	100	500
			444061	928345	2575682			1000	2000	5000		
Chrysene	CRY	Ave	3026	4271	21045	41763	227303	5.00	10.0	50.0	100	500
			495753	983293	2514428			1000	2000	5000		
Benzo[b]fluoranthene	PRY	Lin1	1188	1610	9443	19602	139234	5.00	10.0	50.0	100	500
			366523	767146	2431097			1000	2000	5000		
Benzo[k]fluoranthene	PRY	Ave	2105	2866	17091	35131	214541	5.00	10.0	50.0	100	500
			507988	1017332	2612469			1000	2000	5000		

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 65003

SDG No.: _____

Instrument ID: TAC023 GC Column: DB-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2010 14:10 Calibration End Date: 06/04/2010 16:27 Calibration ID: 5104

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Benzo[a]pyrene	PRY	Lin1	1229	1794	11163	21983	148207	5.00	10.0	50.0	100	500
			389302	800631	2365573			1000	2000	5000		
Indeno[1,2,3-cd]pyrene	PRY	Lin1	1223	1779	10540	20188	136162	5.00	10.0	50.0	100	500
			383119	756493	2534204			1000	2000	5000		
Dibenz(a,h)anthracene	PRY	Lin1	864	1310	7662	14842	107599	5.00	10.0	50.0	100	500
			307056	604678	2053775			1000	2000	5000		
Benzo[g,h,i]perylene	PRY	Lin1	1203	1673	10078	18839	122948	5.00	10.0	50.0	100	500
			338624	645094	2131050			1000	2000	5000		
Nitrobenzene-d5	NPT	Ave	968	1308	7000	13817	75620	4.92	9.84	49.2	98.4	492
			153864	314980	807334			984	1968	4920		
2-Fluorobiphenyl	ANT	Ave	1737	3116	17183	34629	183425	4.93	9.86	49.3	98.6	493
			369327	746980	1860871			986	1972	4930		
2,4,6-Tribromophenol	ANT	Lin1	233	395	2497	5339	33544	4.92	9.85	49.2	98.5	492
			74774	151637	416322			985	1970	4924		
Terphenyl-d14	PHN	Ave	1483	2293	12832	26992	162532	4.85	9.70	48.5	97.0	485
			347673	716127	1899544			970	1940	4850		

Curve Type Legend:

<p>Ave = Average ISTD Lin1 = Linear 1/conc ISTD Qual = Quadratic 1/conc ISTD</p>
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FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCVIS 580-65102/3 Calibration Date: 06/07/2010 10:37
 Instrument ID: TAC023 Calib Start Date: 06/04/2010 14:10
 GC Column: DB-5MS ID: 0.25 (mm) Calib End Date: 06/04/2010 16:27
 Lab File ID: HP24702.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9895	1.056		534	500	6.7	
2-Methylnaphthalene	Lin1		0.5521		510	500	2.1	
1-Methylnaphthalene	Ave	0.5740	0.5932		517	500	3.3	
Acenaphthylene	Ave	1.711	1.791		523	500	4.7	
Acenaphthene	Ave	1.156	1.190		515	500	3.0	
Fluorene	Ave	1.263	1.333		528	500	5.5	
Pentachlorophenol	Qual		0.2255		526	500	5.2	
Phenanthrene	Ave	1.014	1.084		535	500	6.9	
Anthracene	Ave	1.038	1.090		525	500	5.0	
Fluoranthene	Ave	1.064	1.152		541	500	8.3	
Pyrene	Ave	1.152	1.244		540	500	8.0	
Benzo[a]anthracene	Lin1		1.123		510	500	1.9	
Chrysene	Ave	1.340	1.245		464	500	-7.1	
Benzo[b]fluoranthene	Lin1		1.447		488	500	-2.5	
Benzo[k]fluoranthene	Ave	1.826	1.933		529	500	5.9	
Benzo[a]pyrene	Lin1		1.519		507	500	1.5	
Indeno[1,2,3-cd]pyrene	Lin1		1.322		434	500	-13.2	
Dibenz(a,h)anthracene	Lin1		1.023		418	500	-16.4	
Benzo[g,h,i]perylene	Lin1		1.168		449	500	-10.3	
Nitrobenzene-d5	Ave	0.3367	0.3553		519	492	5.5	
2-Fluorobiphenyl	Ave	1.425	1.485		513	493	4.2	
2,4,6-Tribromophenol	Lin1		0.2797		454	492	-7.8	
Terphenyl-d14	Ave	0.7631	0.8375		532	485	9.8	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-64459/1-A
 Matrix: Water Lab File ID: HP24703.D
 Analysis Method: 8270C Date Collected: _____
 Extract. Method: 3520C Date Extracted: 05/26/2010 17:40
 Sample wt/vol: 1000 (mL) Date Analyzed: 06/07/2010 11:16
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 65102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-55-3	Benzo[a]anthracene	ND		0.010	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.010	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.010	0.010
218-01-9	Chrysene	ND		0.010	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.010	0.010
50-32-8	Benzo[a]pyrene	ND		0.010	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.010	0.010

CAS NO.	SURROGATE	%REC	LIMITS	Q
1718-51-0	Terphenyl-d14	84	60-140	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-64459/2-A
 Matrix: Water Lab File ID: HP24704.D
 Analysis Method: 8270C Date Collected: _____
 Extract. Method: 3520C Date Extracted: 05/26/2010 17:40
 Sample wt/vol: 1000 (mL) Date Analyzed: 06/07/2010 11:35
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 65102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-55-3	Benzo[a]anthracene	0.989		0.010	0.010
205-99-2	Benzo[b]fluoranthene	0.915		0.010	0.010
207-08-9	Benzo[k]fluoranthene	1.04		0.010	0.010
218-01-9	Chrysene	0.913		0.010	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.897		0.010	0.010
50-32-8	Benzo[a]pyrene	0.974		0.010	0.010
53-70-3	Dibenz(a,h)anthracene	0.893		0.010	0.010

CAS NO.	SURROGATE	%REC	LIMITS	Q
1718-51-0	Terphenyl-d14	86	60-140	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W MS Lab Sample ID: 580-19562-3 MS
 Matrix: Water Lab File ID: HP24716.D
 Analysis Method: 8270C Date Collected: 05/24/2010 10:34
 Extract. Method: 3520C Date Extracted: 05/26/2010 17:40
 Sample wt/vol: 1060(mL) Date Analyzed: 06/07/2010 16:05
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 65102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-55-3	Benzo[a]anthracene	0.839		0.0094	0.0094
205-99-2	Benzo[b]fluoranthene	0.774		0.0094	0.0094
207-08-9	Benzo[k]fluoranthene	0.766		0.0094	0.0094
218-01-9	Chrysene	0.741		0.0094	0.0094
193-39-5	Indeno[1,2,3-cd]pyrene	0.748		0.0094	0.0094
50-32-8	Benzo[a]pyrene	0.755		0.0094	0.0094
53-70-3	Dibenz(a,h)anthracene	0.747		0.0094	0.0094

CAS NO.	SURROGATE	%REC	LIMITS	Q
1718-51-0	Terphenyl-d14	83	60-140	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W MSD Lab Sample ID: 580-19562-3 MSD
 Matrix: Water Lab File ID: HP24717.D
 Analysis Method: 8270C Date Collected: 05/24/2010 10:34
 Extract. Method: 3520C Date Extracted: 05/26/2010 17:40
 Sample wt/vol: 1060 (mL) Date Analyzed: 06/07/2010 16:25
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 65102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-55-3	Benzo[a]anthracene	0.876		0.0094	0.0094
205-99-2	Benzo[b]fluoranthene	0.749		0.0094	0.0094
207-08-9	Benzo[k]fluoranthene	0.794		0.0094	0.0094
218-01-9	Chrysene	0.789		0.0094	0.0094
193-39-5	Indeno[1,2,3-cd]pyrene	0.872		0.0094	0.0094
50-32-8	Benzo[a]pyrene	0.800		0.0094	0.0094
53-70-3	Dibenz(a,h)anthracene	0.881		0.0094	0.0094

CAS NO.	SURROGATE	%REC	LIMITS	Q
1718-51-0	Terphenyl-d14	79	60-140	

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Instrument ID: TAC023 Start Date: 06/04/2010 13:37Analysis Batch Number: 65003 End Date: 06/04/2010 21:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 580-65003/2		06/04/2010 13:37	1	HP24680.D	DB-5MS 0.25 (mm)
IC 580-65003/4		06/04/2010 14:10	1	HP24682.D	DB-5MS 0.25 (mm)
IC 580-65003/5		06/04/2010 14:29	1	HP24683.D	DB-5MS 0.25 (mm)
IC 580-65003/6		06/04/2010 14:49	1	HP24684.D	DB-5MS 0.25 (mm)
IC 580-65003/7		06/04/2010 15:09	1	HP24685.D	DB-5MS 0.25 (mm)
ICIS 580-65003/8		06/04/2010 15:28	1	HP24686.D	DB-5MS 0.25 (mm)
IC 580-65003/9		06/04/2010 15:48	1	HP24687.D	DB-5MS 0.25 (mm)
IC 580-65003/10		06/04/2010 16:08	1	HP24688.D	DB-5MS 0.25 (mm)
IC 580-65003/11		06/04/2010 16:27	1	HP24689.D	DB-5MS 0.25 (mm)
ICV 580-65003/12		06/04/2010 16:48	1		DB-5MS 0.25 (mm)
ZZZZZ		06/04/2010 19:06	1		DB-5MS 0.25 (mm)
ZZZZZ		06/04/2010 19:25	1		DB-5MS 0.25 (mm)
ZZZZZ		06/04/2010 19:45	1		DB-5MS 0.25 (mm)
ZZZZZ		06/04/2010 20:04	1		DB-5MS 0.25 (mm)
ZZZZZ		06/04/2010 20:24	1		DB-5MS 0.25 (mm)
ZZZZZ		06/04/2010 20:43	1		DB-5MS 0.25 (mm)
ZZZZZ		06/04/2010 21:03	1		DB-5MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Instrument ID: TAC023 Start Date: 06/07/2010 10:11Analysis Batch Number: 65102 End Date: 06/07/2010 21:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 580-65102/2		06/07/2010 10:11	1	HP24701.D	DB-5MS 0.25 (mm)
CCVIS 580-65102/3		06/07/2010 10:37	1	HP24702.D	DB-5MS 0.25 (mm)
MB 580-64459/1-A		06/07/2010 11:16	1	HP24703.D	DB-5MS 0.25 (mm)
LCS 580-64459/2-A		06/07/2010 11:35	1	HP24704.D	DB-5MS 0.25 (mm)
ZZZZZ		06/07/2010 12:11	1		DB-5MS 0.25 (mm)
ZZZZZ		06/07/2010 12:30	1		DB-5MS 0.25 (mm)
ZZZZZ		06/07/2010 12:50	1		DB-5MS 0.25 (mm)
ZZZZZ		06/07/2010 13:10	10		DB-5MS 0.25 (mm)
ZZZZZ		06/07/2010 13:29	10		DB-5MS 0.25 (mm)
ZZZZZ		06/07/2010 13:49	1		DB-5MS 0.25 (mm)
ZZZZZ		06/07/2010 14:08	10		DB-5MS 0.25 (mm)
ZZZZZ		06/07/2010 14:41	10		DB-5MS 0.25 (mm)
ZZZZZ		06/07/2010 15:01	200		DB-5MS 0.25 (mm)
ZZZZZ		06/07/2010 15:26	200		DB-5MS 0.25 (mm)
580-19562-3	MW16-052410-W	06/07/2010 15:46	1	HP24715.D	DB-5MS 0.25 (mm)
580-19562-3 MS	MW16-052410-W MS	06/07/2010 16:05	1	HP24716.D	DB-5MS 0.25 (mm)
580-19562-3 MSD	MW16-052410-W MSD	06/07/2010 16:25	1	HP24717.D	DB-5MS 0.25 (mm)
580-19562-1	MW3-052410-W	06/07/2010 17:08	1	HP24718.D	DB-5MS 0.25 (mm)
580-19562-2	MW18-052410-W	06/07/2010 17:28	1	HP24719.D	DB-5MS 0.25 (mm)
580-19562-4	MW8-052410-W	06/07/2010 17:47	1	HP24720.D	DB-5MS 0.25 (mm)
580-19562-5	Dupe1-052410-W	06/07/2010 18:07	1	HP24721.D	DB-5MS 0.25 (mm)
580-19562-7	MW17-052410-W	06/07/2010 18:27	1	HP24722.D	DB-5MS 0.25 (mm)
ZZZZZ		06/07/2010 18:46	1		DB-5MS 0.25 (mm)
ZZZZZ		06/07/2010 19:06	1		DB-5MS 0.25 (mm)
ZZZZZ		06/07/2010 19:25	1		DB-5MS 0.25 (mm)
ZZZZZ		06/07/2010 20:24	1		DB-5MS 0.25 (mm)
ZZZZZ		06/07/2010 20:44	1		DB-5MS 0.25 (mm)
ZZZZZ		06/07/2010 21:03	1		DB-5MS 0.25 (mm)

Organic Prep Worksheet

Batch Number: 580-64459

Method: 3520C

Analyst: Palmer, Sonya

Date Open: May 26 2010 5:40PM

Batch End: May 27 2010 6:00PM

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	pH of the sample after first adjustment	pH of the sample after the second adjust	8270flspk_00069
MB~580-64459/1		3520C, 8270C		6	1000 mL	1 mL	<2	na	
LCS~580-64459/2		3520C, 8270C		6	1000 mL	1 mL	<2	na	10 uL
580-19497-B-1			T	7	1060 mL	1 mL	<2	na	
580-19497-B-2			T	7	1060 mL	1 mL	<2	na	
580-19497-A-3			T	7	1060 mL	1 mL	<2	na	
580-19497-B-4			T	7	1060 mL	1 mL	<2	na	
580-19497-J-5			T	7	1060 mL	1 mL	<2	na	
580-19498-B-1			T	7	1060 mL	1 mL	<2	na	
580-19498-B-2			T	7	1060 mL	1 mL	<2	na	
580-19562-D-1	MW3-052410-W	3520C, 8270C	T	7	1060 mL	1 mL	<2	na	
580-19562-D-2	MW18-052410-W	3520C, 8270C	T	7	1060 mL	1 mL	<2	na	
580-19562-C-3	MW16-052410-W	3520C, 8270C	T	7	1060 mL	1 mL	<2	na	
580-19562-C-3~MS	MW16-052410-W	3520C, 8270C	T	7	1060 mL	1 mL	<2	na	10 uL
580-19562-C-3~MSD	MW16-052410-W	3520C, 8270C	T	7	1060 mL	1 mL	<2	na	10 uL
580-19562-E-4	MW8-052410-W	3520C, 8270C	T	7	1060 mL	1 mL	<2	na	
580-19562-D-5	Dupe1-052410-W	3520C, 8270C	T	7	1060 mL	1 mL	<2	na	
580-19562-C-7	MW17-052410-W	3520C, 8270C	T	7	1060 mL	1 mL	<2	na	

Organic Prep Worksheet

Batch Number: 580-64459

Method: 3520C

Analyst: Palmer, Sonya

Date Open: May 26 2010 5:40PM

Batch End: May 27 2010 6:00PM

Lab ID	Client ID	Method Chain	Basis	8270Surr_00041
MB~580-64459/1		3520C, 8270C		10 uL
LCS~580-64459/2		3520C, 8270C		10 uL
580-19497-B-1			T	10 uL
580-19497-B-2			T	10 uL
580-19497-A-3			T	10 uL
580-19497-B-4			T	10 uL
580-19497-J-5			T	10 uL
580-19498-B-1			T	10 uL
580-19498-B-2			T	10 uL
580-19562-D-1	MW3-052410-W	3520C, 8270C	T	10 uL
580-19562-D-2	MW18-052410-W	3520C, 8270C	T	10 uL
580-19562-C-3	MW16-052410-W	3520C, 8270C	T	10 uL
580-19562-C-3~MS	MW16-052410-W	3520C, 8270C	T	10 uL
580-19562-C-3~MSD	MW16-052410-W	3520C, 8270C	T	10 uL
580-19562-E-4	MW8-052410-W	3520C, 8270C	T	10 uL
580-19562-D-5	Dupe1-052410-W	3520C, 8270C	T	10 uL
580-19562-C-7	MW17-052410-W	3520C, 8270C	T	10 uL

Person's name who did the prep:	spalmer	Concentration End Time:	na
Prep Solvent Name:	MecI2	Na2SO4 Lot Number:	510035
Prep Solvent Lot #:	J05J13	Sufficient volume for MS/MSD?:	yes
Prep Solvent Volume Used:	200 mL	Filter Paper Lot Number:	K11683411A
Person's name who witnessed reagent drop:	na	Water Bath ID:	TAC603
Acid used for pH adjustment:	1:1H2SO4	Water Bath Temperature:	71-74 corrected Celsius
Acid used for pH adjust Lot #:	497857	N-evap temperature:	31.4 Celsius
Time the first extraction started 24 hr:	1700	Florisil Lot #:	na
Time the first extraction ended 24hr:	1100	Copper Lot #:	na
Base used for pH adjustment:	na	Sulfuric Acid Lot Number:	na
Base used for pH adjust Lot #:	na		
Time the second extraction started 24 hr:	na		
Time the second extractino ended 24 hr:	na		
Silica Gel Lot Number:	na		
Person's name who did the concentration:	spalmer		
Exchange Solvent Name:	na		
Exchange Solvent Lot #:	na		
Concentration Start Time:	na		

Method NWTPH-Gx

Gasoline Range Organics by NWTPH-Gx

FORM II
GC VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): RTX-VRX ID: 0.45 (mm)

Client Sample ID	Lab Sample ID	TFT1 #	BFB1 #
MW3-052410-W	580-19562-1	104	96
MW18-052410-W	580-19562-2	102	97
MW16-052410-W	580-19562-3	103	88
MW8-052410-W	580-19562-4	103	95
Dupe1-052410-W	580-19562-5	105	94
Trip Blank	580-19562-6	103	97
MW17-052410-W	580-19562-7	101	97
	MB 580-65017/4	105	88
	LCS 580-65017/5	101	95
	LCSD 580-65017/6	100	99
MW16-052410-W MS	580-19562-3 MS	107	96
MW16-052410-W MSD	580-19562-3 MSD	104	96

	<u>QC LIMITS</u>
TFT = Trifluorotoluene (Surr)	50-150
BFB = 4-Bromofluorobenzene (Surr)	50-150

Column to be used to flag recovery values

FORM II NWTPH-Gx

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: F0410006.D

Lab ID: LCS 580-65017/5 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Gasoline	1.00	0.961	96	79-110	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: F0410007.D

Lab ID: LCSD 580-65017/6 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Gasoline	1.00	0.969	97	1	20	79-110	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: F0410021.D
 Lab ID: 580-19562-3 MS Client ID: MW16-052410-W MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
Gasoline	1.16	ND	1.15	99	50-150	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: F0410022.D

Lab ID: 580-19562-3 MSD Client ID: MW16-052410-W MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Gasoline	1.16	1.15	99	1	35	50-150	

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: MB 580-65017/4
 Matrix: Water Date Extracted: 06/04/2010 15:31
 Lab File ID: (1) F0410005.D Lab File ID: (2) _____
 Date Analyzed: (1) 06/04/2010 15:31 Date Analyzed: (2) _____
 Instrument ID: (1) TAC056 Instrument ID: (2) _____
 GC Column: (1) RTX-VRX ID: 0.45 (mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 580-65017/5	06/04/2010 15:56	
	LCSD 580-65017/6	06/04/2010 16:20	
	CCB 580-65017/15	06/04/2010 20:03	
Trip Blank	580-19562-6	06/04/2010 20:27	
MW3-052410-W	580-19562-1	06/04/2010 20:52	
MW18-052410-W	580-19562-2	06/04/2010 21:17	
MW16-052410-W	580-19562-3	06/04/2010 21:42	
MW16-052410-W MS	580-19562-3 MS	06/04/2010 22:06	
MW16-052410-W MSD	580-19562-3 MSD	06/04/2010 22:31	
MW8-052410-W	580-19562-4	06/04/2010 22:56	
Dupe1-052410-W	580-19562-5	06/04/2010 23:20	
MW17-052410-W	580-19562-7	06/04/2010 23:45	

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Instrument ID: TAC056 Calibration Start Date: 06/01/2010 22:32
 GC Column: RTX-VRX ID: 0.45(mm) Calibration End Date: 06/02/2010 01:50
 Calibration ID: 5090

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TFT	BFB	
				RT #	RT #	
SURROGATE RT FROM CONTINUING CALIBRATION				7.22	10.15	
UPPER LIMIT				7.25	10.18	
LOWER LIMIT				7.19	10.12	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-65017/3		06/04/2010 15:06	F0410004.D	7.22	10.15	
MB 580-65017/4		06/04/2010 15:31	F0410005.D	7.21	10.15	
LCS 580-65017/5		06/04/2010 15:56	F0410006.D	7.21	10.15	
LCSD 580-65017/6		06/04/2010 16:20	F0410007.D	7.22	10.15	
CCV 580-65017/14		06/04/2010 19:38	F0410015.D	7.22	10.15	
580-19562-6	Trip Blank	06/04/2010 20:27	F0410017.D	7.21	10.15	
580-19562-1	MW3-052410-W	06/04/2010 20:52	F0410018.D	7.21	10.15	
580-19562-2	MW18-052410-W	06/04/2010 21:17	F0410019.D	7.21	10.15	
580-19562-3	MW16-052410-W	06/04/2010 21:42	F0410020.D	7.21	10.15	
580-19562-3 MS	MW16-052410-W MS	06/04/2010 22:06	F0410021.D	7.21	10.14	
580-19562-3 MSD	MW16-052410-W MSD	06/04/2010 22:31	F0410022.D	7.21	10.15	
580-19562-4	MW8-052410-W	06/04/2010 22:56	F0410023.D	7.21	10.15	
580-19562-5	Dupe1-052410-W	06/04/2010 23:20	F0410024.D	7.21	10.15	
580-19562-7	MW17-052410-W	06/04/2010 23:45	F0410025.D	7.21	10.15	
CCV 580-65017/25		06/05/2010 00:10	F0410026.D	7.21	10.15	

TFT = Trifluorotoluene (Surr)
 BFB = 4-Bromofluorobenzene (Surr)

TFT RT Limit = ± .03 minutes of surrogate RT
 BFB RT Limit = ± .03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW3-052410-W Lab Sample ID: 580-19562-1
 Matrix: Water Lab File ID: F0410018.D
 Analysis Method: NWTPH-Gx Date Collected: 05/24/2010 08:00
 Sample wt/vol: 5(mL) Date Analyzed: 06/04/2010 20:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65017 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00228	Gasoline	ND		0.050	0.050

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene (Surr)	96	50-150	
98-08-8	Trifluorotoluene (Surr)	104	50-150	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW18-052410-W Lab Sample ID: 580-19562-2
 Matrix: Water Lab File ID: F0410019.D
 Analysis Method: NWTPH-Gx Date Collected: 05/24/2010 09:20
 Sample wt/vol: 5(mL) Date Analyzed: 06/04/2010 21:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65017 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00228	Gasoline	ND		0.050	0.050

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene (Surr)	97	50-150	
98-08-8	Trifluorotoluene (Surr)	102	50-150	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W Lab Sample ID: 580-19562-3
 Matrix: Water Lab File ID: F0410020.D
 Analysis Method: NWTPH-Gx Date Collected: 05/24/2010 10:34
 Sample wt/vol: 5(mL) Date Analyzed: 06/04/2010 21:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65017 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00228	Gasoline	ND		0.050	0.050

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene (Surr)	88	50-150	
98-08-8	Trifluorotoluene (Surr)	103	50-150	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW8-052410-W Lab Sample ID: 580-19562-4
 Matrix: Water Lab File ID: F0410023.D
 Analysis Method: NWTPH-Gx Date Collected: 05/24/2010 12:10
 Sample wt/vol: 5(mL) Date Analyzed: 06/04/2010 22:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65017 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00228	Gasoline	ND		0.050	0.050

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene (Surr)	95	50-150	
98-08-8	Trifluorotoluene (Surr)	103	50-150	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: Dupe1-052410-W Lab Sample ID: 580-19562-5
 Matrix: Water Lab File ID: F0410024.D
 Analysis Method: NWTPH-Gx Date Collected: 05/24/2010 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 06/04/2010 23:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65017 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00228	Gasoline	ND		0.050	0.050

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene (Surr)	94	50-150	
98-08-8	Trifluorotoluene (Surr)	105	50-150	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: Trip Blank Lab Sample ID: 580-19562-6
 Matrix: Water Lab File ID: F0410017.D
 Analysis Method: NWTPH-Gx Date Collected: 05/24/2010 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 06/04/2010 20:27
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65017 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00228	Gasoline	ND		0.050	0.050

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene (Surr)	97	50-150	
98-08-8	Trifluorotoluene (Surr)	103	50-150	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW17-052410-W Lab Sample ID: 580-19562-7
 Matrix: Water Lab File ID: F0410025.D
 Analysis Method: NWTPH-Gx Date Collected: 05/24/2010 14:20
 Sample wt/vol: 5(mL) Date Analyzed: 06/04/2010 23:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65017 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00228	Gasoline	ND		0.050	0.050

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene (Surr)	97	50-150	
98-08-8	Trifluorotoluene (Surr)	101	50-150	

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 64738

SDG No.: _____

Instrument ID: TAC056 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2010 22:32 Calibration End Date: 06/02/2010 01:50 Calibration ID: 5090

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-64738/4	F0110017.D
Level 2	IC 580-64738/6	F0110019.D
Level 3	IC 580-64738/5	F0110018.D
Level 4	IC 580-64738/7	F0110020.D
Level 5	IC 580-64738/8	F0110021.D
Level 6	IC 580-64738/9	F0110022.D
Level 7	IC 580-64738/10	F0110023.D
Level 8	IC 580-64738/11	F0110024.D
Level 9	IC 580-64738/12	F0110025.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Gasoline	11.040	11.040	11.040	11.040	11.040	11.040	11.040	11.040	11.040		8.048 - 14.032	11.040
Trifluorotoluene (Surr)	7.213	7.217	7.211	7.216	7.211	7.218	7.212				7.116 - 7.316	7.214
4-Bromofluorobenzene (Surr)	10.154	10.150	10.152	10.149	10.153	10.151	+++++	+++++	+++++		10.049 - 10.249	10.150

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 64738

SDG No.: _____

Instrument ID: TAC056 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2010 22:32 Calibration End Date: 06/02/2010 01:50 Calibration ID: 5090

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-64738/4	F0110017.D
Level 2	IC 580-64738/6	F0110019.D
Level 3	IC 580-64738/5	F0110018.D
Level 4	IC 580-64738/7	F0110020.D
Level 5	IC 580-64738/8	F0110021.D
Level 6	IC 580-64738/9	F0110022.D
Level 7	IC 580-64738/10	F0110023.D
Level 8	IC 580-64738/11	F0110024.D
Level 9	IC 580-64738/12	F0110025.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Gasoline	327590 117799 126731	143816 116325	226388 121732	129964 124263	Lin2	10544305	115576							0.9940		0.9900
Trifluorotoluene (Surr)	170772 167365	174967 197656	170321 206503	170099	Ave		179669			8.7		15.0				
4-Bromofluorobenzene (Surr)	150020 150967 +++++	144635 192216	139887 +++++	146073 +++++	Ave		153966			12.0		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 64738

SDG No.: _____

Instrument ID: TAC056 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2010 22:32 Calibration End Date: 06/02/2010 01:50 Calibration ID: 5090

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-64738/4	F0110017.D
Level 2	IC 580-64738/6	F0110019.D
Level 3	IC 580-64738/5	F0110018.D
Level 4	IC 580-64738/7	F0110020.D
Level 5	IC 580-64738/8	F0110021.D
Level 6	IC 580-64738/9	F0110022.D
Level 7	IC 580-64738/10	F0110023.D
Level 8	IC 580-64738/11	F0110024.D
Level 9	IC 580-64738/12	F0110025.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Gasoline	Lin2	16379515	35953976	22638813	64981978	117798687	50.0	250	100	500	1000
		581622855	1217315318	1863943362	3168276552		5000	10000	15000	25000	
Trifluorotoluene (Surr)	Ave	3415438	10498016	6812837	13607901	16736548	20.0	60.0	40.0	80.0	100
		29648334	41300653				150	200			
4-Bromofluorobenzene (Surr)	Ave	9001189	8678123	8393249	8764356	9058039	60.0	60.0	60.0	60.0	60.0
		11532959	+++++	+++++	+++++		60.0	+++++	+++++	+++++	+++++

Curve Type Legend:

Ave = Average
Lin2 = Linear 1/conc^2

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-65017/3 Calibration Date: 06/04/2010 15:06
 Instrument ID: TAC056 Calib Start Date: 06/01/2010 22:32
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 06/02/2010 01:50
 Lab File ID: F0410004.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
Gasoline	Lin2		129506		1030	1000	2.9	20.0
Trifluorotoluene (Surr)	Ave	179669	191437		107	100	6.5	20.0
4-Bromofluorobenzene (Surr)	Ave	153966	157407		61.3	60.0	2.2	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-65017/3 Calibration Date: 06/04/2010 15:06
 Instrument ID: TAC056 Calib Start Date: 06/01/2010 22:32
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 06/02/2010 01:50
 Lab File ID: F0410004.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		TO	FROM
Gasoline	10.99	7.99	13.99
Trifluorotoluene (Surr)	7.22	7.12	7.32
4-Bromofluorobenzene (Surr)	10.15	10.05	10.25

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-65017/14 Calibration Date: 06/04/2010 19:38
 Instrument ID: TAC056 Calib Start Date: 06/01/2010 22:32
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 06/02/2010 01:50
 Lab File ID: F0410015.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
Gasoline	Lin2		136097		1090	1000	8.6	20.0
Trifluorotoluene (Surr)	Ave	179669	184534		103	100	2.7	20.0
4-Bromofluorobenzene (Surr)	Ave	153966	150205		58.5	60.0	-2.4	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-65017/14 Calibration Date: 06/04/2010 19:38
 Instrument ID: TAC056 Calib Start Date: 06/01/2010 22:32
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 06/02/2010 01:50
 Lab File ID: F0410015.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		TO	FROM
Gasoline	10.99	7.99	13.99
Trifluorotoluene (Surr)	7.22	7.12	7.32
4-Bromofluorobenzene (Surr)	10.15	10.05	10.25

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-65017/25 Calibration Date: 06/05/2010 00:10
 Instrument ID: TAC056 Calib Start Date: 06/01/2010 22:32
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 06/02/2010 01:50
 Lab File ID: F0410026.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
Gasoline	Lin2		123957		981	1000	-1.9	20.0
Trifluorotoluene (Surr)	Ave	179669	183742		102	100	2.3	20.0
4-Bromofluorobenzene (Surr)	Ave	153966	150242		58.5	60.0	-2.4	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-65017/25 Calibration Date: 06/05/2010 00:10
 Instrument ID: TAC056 Calib Start Date: 06/01/2010 22:32
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 06/02/2010 01:50
 Lab File ID: F0410026.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		TO	FROM
Gasoline	10.99	7.99	13.99
Trifluorotoluene (Surr)	7.21	7.11	7.31
4-Bromofluorobenzene (Surr)	10.15	10.05	10.25

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-65017/4
 Matrix: Water Lab File ID: F0410005.D
 Analysis Method: NWTPH-Gx Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 06/04/2010 15:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65017 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00228	Gasoline	ND		0.050	0.050

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene (Surr)	88	50-150	
98-08-8	Trifluorotoluene (Surr)	105	50-150	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: CCB 580-65017/15
 Matrix: Water Lab File ID: F0410016.D
 Analysis Method: NWTPH-Gx Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 06/04/2010 20:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65017 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00228	Gasoline	63.2		50	50

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene (Surr)	96	50-150	
98-08-8	Trifluorotoluene (Surr)	107	50-150	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-65017/5
 Matrix: Water Lab File ID: F0410006.D
 Analysis Method: NWTPH-Gx Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 06/04/2010 15:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65017 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00228	Gasoline	0.961		0.050	0.050

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene (Surr)	95	50-150	
98-08-8	Trifluorotoluene (Surr)	101	50-150	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-65017/6
 Matrix: Water Lab File ID: F0410007.D
 Analysis Method: NWTPH-Gx Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 06/04/2010 16:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65017 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00228	Gasoline	0.969		0.050	0.050

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene (Surr)	99	50-150	
98-08-8	Trifluorotoluene (Surr)	100	50-150	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W MS Lab Sample ID: 580-19562-3 MS
 Matrix: Water Lab File ID: F0410021.D
 Analysis Method: NWTPH-Gx Date Collected: 05/24/2010 10:34
 Sample wt/vol: 5(mL) Date Analyzed: 06/04/2010 22:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65017 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00228	Gasoline	1.15		0.050	0.050

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene (Surr)	96	50-150	
98-08-8	Trifluorotoluene (Surr)	107	50-150	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W MSD Lab Sample ID: 580-19562-3 MSD
 Matrix: Water Lab File ID: F0410022.D
 Analysis Method: NWTPH-Gx Date Collected: 05/24/2010 10:34
 Sample wt/vol: 5(mL) Date Analyzed: 06/04/2010 22:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65017 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00228	Gasoline	1.15		0.050	0.050

CAS NO.	SURROGATE	%REC	LIMITS	Q
460-00-4	4-Bromofluorobenzene (Surr)	96	50-150	
98-08-8	Trifluorotoluene (Surr)	104	50-150	

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Instrument ID: TAC056 Start Date: 06/01/2010 21:43Analysis Batch Number: 64738 End Date: 06/02/2010 02:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/01/2010 21:43	1		RTX-VRX 0.45 (mm)
IC 580-64738/4		06/01/2010 22:32	1	F0110017.D	RTX-VRX 0.45 (mm)
IC 580-64738/5		06/01/2010 22:57	1	F0110018.D	RTX-VRX 0.45 (mm)
IC 580-64738/6		06/01/2010 23:22	1	F0110019.D	RTX-VRX 0.45 (mm)
IC 580-64738/7		06/01/2010 23:47	1	F0110020.D	RTX-VRX 0.45 (mm)
IC 580-64738/8		06/02/2010 00:11	1	F0110021.D	RTX-VRX 0.45 (mm)
IC 580-64738/9		06/02/2010 00:36	1	F0110022.D	RTX-VRX 0.45 (mm)
IC 580-64738/10		06/02/2010 01:01	1	F0110023.D	RTX-VRX 0.45 (mm)
IC 580-64738/11		06/02/2010 01:25	1	F0110024.D	RTX-VRX 0.45 (mm)
IC 580-64738/12		06/02/2010 01:50	1	F0110025.D	RTX-VRX 0.45 (mm)
ICV 580-64738/14		06/02/2010 02:39	1		RTX-VRX 0.45 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Instrument ID: TAC056 Start Date: 06/04/2010 14:41Analysis Batch Number: 65017 End Date: 06/05/2010 00:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/04/2010 14:41	1		RTX-VRX 0.45 (mm)
CCVRT 580-65017/3		06/04/2010 15:06	1	F0410004.D	RTX-VRX 0.45 (mm)
MB 580-65017/4		06/04/2010 15:31	1	F0410005.D	RTX-VRX 0.45 (mm)
LCS 580-65017/5		06/04/2010 15:56	1	F0410006.D	RTX-VRX 0.45 (mm)
LCSD 580-65017/6		06/04/2010 16:20	1	F0410007.D	RTX-VRX 0.45 (mm)
ZZZZZ		06/04/2010 16:45	1		RTX-VRX 0.45 (mm)
ZZZZZ		06/04/2010 17:10	1		RTX-VRX 0.45 (mm)
ZZZZZ		06/04/2010 17:35	1		RTX-VRX 0.45 (mm)
ZZZZZ		06/04/2010 17:59	1		RTX-VRX 0.45 (mm)
ZZZZZ		06/04/2010 18:24	1		RTX-VRX 0.45 (mm)
ZZZZZ		06/04/2010 18:49	1		RTX-VRX 0.45 (mm)
ZZZZZ		06/04/2010 19:13	1		RTX-VRX 0.45 (mm)
CCV 580-65017/14		06/04/2010 19:38	1	F0410015.D	RTX-VRX 0.45 (mm)
CCB 580-65017/15		06/04/2010 20:03	1	F0410016.D	RTX-VRX 0.45 (mm)
580-19562-6	Trip Blank	06/04/2010 20:27	1	F0410017.D	RTX-VRX 0.45 (mm)
580-19562-1	MW3-052410-W	06/04/2010 20:52	1	F0410018.D	RTX-VRX 0.45 (mm)
580-19562-2	MW18-052410-W	06/04/2010 21:17	1	F0410019.D	RTX-VRX 0.45 (mm)
580-19562-3	MW16-052410-W	06/04/2010 21:42	1	F0410020.D	RTX-VRX 0.45 (mm)
580-19562-3 MS	MW16-052410-W MS	06/04/2010 22:06	1	F0410021.D	RTX-VRX 0.45 (mm)
580-19562-3 MSD	MW16-052410-W MSD	06/04/2010 22:31	1	F0410022.D	RTX-VRX 0.45 (mm)
580-19562-4	MW8-052410-W	06/04/2010 22:56	1	F0410023.D	RTX-VRX 0.45 (mm)
580-19562-5	Dupe1-052410-W	06/04/2010 23:20	1	F0410024.D	RTX-VRX 0.45 (mm)
580-19562-7	MW17-052410-W	06/04/2010 23:45	1	F0410025.D	RTX-VRX 0.45 (mm)
CCV 580-65017/25		06/05/2010 00:10	1	F0410026.D	RTX-VRX 0.45 (mm)

Method 8011

EDB, DBCP, and 1,2,3-TCP (GC) by
Method 8011

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: CC15209.D

Lab ID: LCS 580-64393/11-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,2-Dibromoethane	0.286	0.324	113	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: CC15210.D

Lab ID: LCSD 580-64393/12-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,2-Dibromoethane	0.286	0.358	125	10	20	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: CC15214.D

Lab ID: 580-19562-3 MS Client ID: MW16-052410-W MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,2-Dibromoethane	0.571	ND	0.623	109	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: CC15215.D
 Lab ID: 580-19562-3 MSD Client ID: MW16-052410-W MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,2-Dibromoethane	0.571	0.633	111	2	20	70-130	

Column to be used to flag recovery and RPD values

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: MB 580-64393/1-A
 Matrix: Water Date Extracted: 05/26/2010 10:44
 Lab File ID: (1) CC15208.D Lab File ID: (2) CC15208.D
 Date Analyzed: (1) 05/27/2010 13:37 Date Analyzed: (2) 05/27/2010 13:37
 Instrument ID: (1) TAC045 Instrument ID: (2) TAC045
 GC Column: (1) ZB-MR-1 ID: 0.32 (mm) GC Column: (2) ZB-MR-2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE		DATE	
		ANALYZED 1		ANALYZED 2	
	LCS 580-64393/11-A	05/27/2010	14:01	05/27/2010	14:01
	LCSD 580-64393/12-A	05/27/2010	14:25	05/27/2010	14:25
MW3-052410-W	580-19562-1	05/27/2010	14:49	05/27/2010	14:49
MW18-052410-W	580-19562-2	05/27/2010	15:12	05/27/2010	15:12
MW16-052410-W	580-19562-3	05/27/2010	15:36	05/27/2010	15:36
MW16-052410-W MS	580-19562-3 MS	05/27/2010	16:00	05/27/2010	16:00
MW16-052410-W MSD	580-19562-3 MSD	05/27/2010	16:24	05/27/2010	16:24
MW8-052410-W	580-19562-4	05/27/2010	16:48	05/27/2010	16:48
Dupel-052410-W	580-19562-5	05/27/2010	17:13	05/27/2010	17:13
Trip Blank	580-19562-6	05/27/2010	18:25	05/27/2010	18:25
MW17-052410-W	580-19562-7	05/27/2010	18:49	05/27/2010	18:49

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W MS Lab Sample ID: 580-19562-3 MS
 Instrument ID (1): TAC045 Instrument ID (2): TAC045
 Date Analyzed (1): 05/27/2010 16:00 Date Analyzed (2): 05/27/2010 16:00
 GC Column (1): ZB-MR-1 ID: 0.32 (mm) GC Column (2): ZB-MR-2 ID: 0.32 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
1,2-Dibromoethane	1		4.65	4.61	4.71	0.623		5.0
	2		4.10	4.05	4.15	0.655		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W MSD Lab Sample ID: 580-19562-3 MSD
 Instrument ID (1): TAC045 Instrument ID (2): TAC045
 Date Analyzed (1): 05/27/2010 16:24 Date Analyzed (2): 05/27/2010 16:24
 GC Column (1): ZB-MR-1 ID: 0.32 (mm) GC Column (2): ZB-MR-2 ID: 0.32 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
1,2-Dibromoethane	1		4.66	4.61	4.71	0.633		1.7
	2		4.10	4.05	4.15	0.644		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-64393/11-A
 Instrument ID (1): TAC045 Instrument ID (2): TAC045
 Date Analyzed (1): 05/27/2010 14:01 Date Analyzed (2): 05/27/2010 14:01
 GC Column (1): ZB-MR-1 ID: 0.32 (mm) GC Column (2): ZB-MR-2 ID: 0.32 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
1,2-Dibromoethane	1		4.65	4.60	4.70	0.324		4.6
	2		4.09	4.05	4.15	0.339		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-64393/12-A
 Instrument ID (1): TAC045 Instrument ID (2): TAC045
 Date Analyzed (1): 05/27/2010 14:25 Date Analyzed (2): 05/27/2010 14:25
 GC Column (1): ZB-MR-1 ID: 0.32 (mm) GC Column (2): ZB-MR-2 ID: 0.32 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
1,2-Dibromoethane	1		4.65	4.60	4.70	0.358		2.1
	2		4.09	4.05	4.15	0.366		

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW3-052410-W Lab Sample ID: 580-19562-1
 Matrix: Water Lab File ID: CC15211.D
 Analysis Method: 8011 Date Collected: 05/24/2010 08:00
 Extraction Method: 8011 Date Extracted: 05/26/2010 17:03
 Sample wt/vol: 35 (mL) Date Analyzed: 05/27/2010 14:49
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 2 (uL) GC Column: ZB-MR-1 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64510 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
106-93-4	1,2-Dibromoethane	ND		0.010	0.010

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW18-052410-W Lab Sample ID: 580-19562-2
 Matrix: Water Lab File ID: CC15212.D
 Analysis Method: 8011 Date Collected: 05/24/2010 09:20
 Extraction Method: 8011 Date Extracted: 05/26/2010 17:03
 Sample wt/vol: 35 (mL) Date Analyzed: 05/27/2010 15:12
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 2 (uL) GC Column: ZB-MR-1 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64510 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
106-93-4	1,2-Dibromoethane	ND		0.010	0.010

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W Lab Sample ID: 580-19562-3
 Matrix: Water Lab File ID: CC15213.D
 Analysis Method: 8011 Date Collected: 05/24/2010 10:34
 Extraction Method: 8011 Date Extracted: 05/26/2010 17:03
 Sample wt/vol: 35 (mL) Date Analyzed: 05/27/2010 15:36
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 2 (uL) GC Column: ZB-MR-1 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64510 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
106-93-4	1,2-Dibromoethane	ND		0.010	0.010

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW8-052410-W Lab Sample ID: 580-19562-4
 Matrix: Water Lab File ID: CC15216.D
 Analysis Method: 8011 Date Collected: 05/24/2010 12:10
 Extraction Method: 8011 Date Extracted: 05/26/2010 17:03
 Sample wt/vol: 35 (mL) Date Analyzed: 05/27/2010 16:48
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 2 (uL) GC Column: ZB-MR-1 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64510 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
106-93-4	1,2-Dibromoethane	ND		0.010	0.010

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: Dupe1-052410-W Lab Sample ID: 580-19562-5
 Matrix: Water Lab File ID: CC15217.D
 Analysis Method: 8011 Date Collected: 05/24/2010 00:00
 Extraction Method: 8011 Date Extracted: 05/26/2010 17:03
 Sample wt/vol: 35 (mL) Date Analyzed: 05/27/2010 17:13
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 2 (uL) GC Column: ZB-MR-1 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64510 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
106-93-4	1,2-Dibromoethane	ND		0.010	0.010

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: Trip Blank Lab Sample ID: 580-19562-6
 Matrix: Water Lab File ID: CC15220.D
 Analysis Method: 8011 Date Collected: 05/24/2010 00:00
 Extraction Method: 8011 Date Extracted: 05/26/2010 17:03
 Sample wt/vol: 35 (mL) Date Analyzed: 05/27/2010 18:25
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 2 (uL) GC Column: ZB-MR-1 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64510 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
106-93-4	1,2-Dibromoethane	ND		0.010	0.010

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW17-052410-W Lab Sample ID: 580-19562-7
 Matrix: Water Lab File ID: CC15221.D
 Analysis Method: 8011 Date Collected: 05/24/2010 14:20
 Extraction Method: 8011 Date Extracted: 05/26/2010 17:03
 Sample wt/vol: 35 (mL) Date Analyzed: 05/27/2010 18:49
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 2 (uL) GC Column: ZB-MR-1 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64510 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
106-93-4	1,2-Dibromoethane	ND		0.010	0.010

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 64446

SDG No.: _____

Instrument ID: TAC045 GC Column: ZB-MR-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/26/2010 14:57 Calibration End Date: 05/26/2010 17:45 Calibration ID: 5054

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-64393/2-A	CC15196.D
Level 2	IC 580-64393/3-A	CC15197.D
Level 3	IC 580-64393/4-A	CC15198.D
Level 4	IC 580-64393/5-A	CC15199.D
Level 5	IC 580-64393/6-A	CC15200.D
Level 6	ICRT 580-64393/7-A	CC15201.D
Level 7	IC 580-64393/8-A	CC15202.D
Level 8	IC 580-64393/9-A	CC15203.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
Ethylene Dibromide	4.606	4.617	4.617	4.622	4.627	4.630	4.633	4.637			4.587 - 4.687	4.624
1,2-Dibromo-3-Chloropropane	9.452	9.456	9.452	9.454	9.455	9.454	9.454	9.455			9.402 - 9.502	9.454

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 64446

SDG No.: _____

Instrument ID: TAC045 GC Column: ZB-MR-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/26/2010 14:57 Calibration End Date: 05/26/2010 17:45 Calibration ID: 5054

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-64393/2-A	CC15196.D
Level 2	IC 580-64393/3-A	CC15197.D
Level 3	IC 580-64393/4-A	CC15198.D
Level 4	IC 580-64393/5-A	CC15199.D
Level 5	IC 580-64393/6-A	CC15200.D
Level 6	ICRT 580-64393/7-A	CC15201.D
Level 7	IC 580-64393/8-A	CC15202.D
Level 8	IC 580-64393/9-A	CC15203.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4		B	M1	M2								
	LVL 5	LVL 6	LVL 7	LVL 8												
Ethylene Dibromide	638940 1147233	1006070 1234093	1042776 1293212	1120131 1235266	Lin2	56938	1223281						0.9970			
1,2-Dibromo-3-Chloropropane	2507630 1851774	2011620 2003799	1676038 2129328	1857689 2060401	Lin	179888	2088502						0.9990			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 64446

SDG No.: _____

Instrument ID: TAC045 GC Column: ZB-MR-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/26/2010 14:57 Calibration End Date: 05/26/2010 17:45 Calibration ID: 5054

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-64393/2-A	CC15196.D
Level 2	IC 580-64393/3-A	CC15197.D
Level 3	IC 580-64393/4-A	CC15198.D
Level 4	IC 580-64393/5-A	CC15199.D
Level 5	IC 580-64393/6-A	CC15200.D
Level 6	ICRT 580-64393/7-A	CC15201.D
Level 7	IC 580-64393/8-A	CC15202.D
Level 8	IC 580-64393/9-A	CC15203.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Ethylene Dibromide	Lin2	63894 6170464	201214 12932121	521388 18528994	1120131	2868082	0.100 5.00	0.200 10.0	0.500 15.0	1.00	2.50
1,2-Dibromo-3-Chloropropane	Lin	250763 10018995	402324 21293275	838019 30906009	1857689	4629435	0.100 5.00	0.200 10.0	0.500 15.0	1.00	2.50

Curve Type Legend:

Lin = Linear
Lin2 = Linear 1/conc^2

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 64446

SDG No.: _____

Instrument ID: TAC045 GC Column: ZB-MR-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/26/2010 14:57 Calibration End Date: 05/26/2010 17:45 Calibration ID: 5056

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-64393/2-A	CC15196.D
Level 2	IC 580-64393/3-A	CC15197.D
Level 3	IC 580-64393/4-A	CC15198.D
Level 4	IC 580-64393/5-A	CC15199.D
Level 5	IC 580-64393/6-A	CC15200.D
Level 6	ICRT 580-64393/7-A	CC15201.D
Level 7	IC 580-64393/8-A	CC15202.D
Level 8	IC 580-64393/9-A	CC15203.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
1,2-Dibromoethane	4.606	4.617	4.617	4.622	4.627	4.630	4.633	4.637			4.587 - 4.687	4.624
1,2-Dibromo-3-Chloropropane	+++++	9.456	9.452	9.454	9.455	9.454	9.454	9.455			9.402 - 9.502	9.454

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 64446

SDG No.: _____

Instrument ID: TAC045 GC Column: ZB-MR-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/26/2010 14:57 Calibration End Date: 05/26/2010 17:45 Calibration ID: 5056

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-64393/2-A	CC15196.D
Level 2	IC 580-64393/3-A	CC15197.D
Level 3	IC 580-64393/4-A	CC15198.D
Level 4	IC 580-64393/5-A	CC15199.D
Level 5	IC 580-64393/6-A	CC15200.D
Level 6	ICRT 580-64393/7-A	CC15201.D
Level 7	IC 580-64393/8-A	CC15202.D
Level 8	IC 580-64393/9-A	CC15203.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4		B	M1	M2								
	LVL 5	LVL 6	LVL 7	LVL 8												
1,2-Dibromoethane	638940 1147233	1006070 1234093	1042776 1293212	1120131 1235266	Lin2	56938	1223281						0.9970		0.9900	
1,2-Dibromo-3-Chloropropane	++++ 1851774	2011620 2003799	1676038 2129328	1857689 2060401	Lin2	13571	1958517						0.9920		0.9900	

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 64446

SDG No.: _____

Instrument ID: TAC045 GC Column: ZB-MR-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/26/2010 14:57 Calibration End Date: 05/26/2010 17:45 Calibration ID: 5056

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-64393/2-A	CC15196.D
Level 2	IC 580-64393/3-A	CC15197.D
Level 3	IC 580-64393/4-A	CC15198.D
Level 4	IC 580-64393/5-A	CC15199.D
Level 5	IC 580-64393/6-A	CC15200.D
Level 6	ICRT 580-64393/7-A	CC15201.D
Level 7	IC 580-64393/8-A	CC15202.D
Level 8	IC 580-64393/9-A	CC15203.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
1,2-Dibromoethane	Lin2	63894 6170464	201214 12932121	521388 18528994	1120131	2868082	0.100 5.00	0.200 10.0	0.500 15.0	1.00	2.50
1,2-Dibromo-3-Chloropropane	Lin2	++++ 10018995	402324 21293275	838019 30906009	1857689	4629435	++++ 5.00	0.200 10.0	0.500 15.0	1.00	2.50

Curve Type Legend:

Lin2 = Linear 1/conc^2

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 64446

SDG No.: _____

Instrument ID: TAC045 GC Column: ZB-MR-2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/26/2010 14:57 Calibration End Date: 05/26/2010 17:45 Calibration ID: 5055

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-64393/2-A	CC15196.D
Level 2	IC 580-64393/3-A	CC15197.D
Level 3	IC 580-64393/4-A	CC15198.D
Level 4	IC 580-64393/5-A	CC15199.D
Level 5	IC 580-64393/6-A	CC15200.D
Level 6	ICRT 580-64393/7-A	CC15201.D
Level 7	IC 580-64393/8-A	CC15202.D
Level 8	IC 580-64393/9-A	CC15203.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
Ethylene Dibromide	4.041	4.047	4.053	4.057	4.062	4.067	4.070	4.076			4.007 - 4.107	4.059
1,2-Dibromo-3-Chloropropane	8.687	8.686	8.685	8.687	8.687	8.688	8.688	8.688			8.630 - 8.730	8.687

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 64446

SDG No.: _____

Instrument ID: TAC045 GC Column: ZB-MR-2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/26/2010 14:57 Calibration End Date: 05/26/2010 17:45 Calibration ID: 5055

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-64393/2-A	CC15196.D
Level 2	IC 580-64393/3-A	CC15197.D
Level 3	IC 580-64393/4-A	CC15198.D
Level 4	IC 580-64393/5-A	CC15199.D
Level 5	IC 580-64393/6-A	CC15200.D
Level 6	ICRT 580-64393/7-A	CC15201.D
Level 7	IC 580-64393/8-A	CC15202.D
Level 8	IC 580-64393/9-A	CC15203.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4		B	M1	M2								
	LVL 5	LVL 6	LVL 7	LVL 8												
Ethylene Dibromide	1216400 1574536	1366995 1667605	1501934 1777496	1492509 1690160	Lin2	47286	1646880						0.9970			
1,2-Dibromo-3-Chloropropane	3759190 2439143	2171740 2747404	2302810 2841694	2347296 2726734	Lin	211788	2774230						0.9990			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 64446

SDG No.: _____

Instrument ID: TAC045 GC Column: ZB-MR-2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/26/2010 14:57 Calibration End Date: 05/26/2010 17:45 Calibration ID: 5055

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-64393/2-A	CC15196.D
Level 2	IC 580-64393/3-A	CC15197.D
Level 3	IC 580-64393/4-A	CC15198.D
Level 4	IC 580-64393/5-A	CC15199.D
Level 5	IC 580-64393/6-A	CC15200.D
Level 6	ICRT 580-64393/7-A	CC15201.D
Level 7	IC 580-64393/8-A	CC15202.D
Level 8	IC 580-64393/9-A	CC15203.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Ethylene Dibromide	Lin2	121640 8338027	273399 17774955	750967 25352402	1492509	3936341	0.100 5.00	0.200 10.0	0.500 15.0	1.00	2.50
1,2-Dibromo-3-Chloropropane	Lin	375919 13737018	434348 28416940	1151405 40901004	2347296	6097857	0.100 5.00	0.200 10.0	0.500 15.0	1.00	2.50

Curve Type Legend:

Lin = Linear
Lin2 = Linear 1/conc^2

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 64446

SDG No.: _____

Instrument ID: TAC045 GC Column: ZB-MR-2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/26/2010 14:57 Calibration End Date: 05/26/2010 17:45 Calibration ID: 5057

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-64393/2-A	CC15196.D
Level 2	IC 580-64393/3-A	CC15197.D
Level 3	IC 580-64393/4-A	CC15198.D
Level 4	IC 580-64393/5-A	CC15199.D
Level 5	IC 580-64393/6-A	CC15200.D
Level 6	ICRT 580-64393/7-A	CC15201.D
Level 7	IC 580-64393/8-A	CC15202.D
Level 8	IC 580-64393/9-A	CC15203.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
1,2-Dibromoethane	4.041	4.047	4.053	4.057	4.062	4.067	4.070	4.076			4.026 - 4.126	4.059
1,2-Dibromo-3-Chloropropane	++++	8.686	8.685	8.687	8.687	8.688	8.688	8.688			8.635 - 8.735	8.687

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 64446

SDG No.: _____

Instrument ID: TAC045 GC Column: ZB-MR-2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/26/2010 14:57 Calibration End Date: 05/26/2010 17:45 Calibration ID: 5057

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-64393/2-A	CC15196.D
Level 2	IC 580-64393/3-A	CC15197.D
Level 3	IC 580-64393/4-A	CC15198.D
Level 4	IC 580-64393/5-A	CC15199.D
Level 5	IC 580-64393/6-A	CC15200.D
Level 6	ICRT 580-64393/7-A	CC15201.D
Level 7	IC 580-64393/8-A	CC15202.D
Level 8	IC 580-64393/9-A	CC15203.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4		B	M1	M2								
	LVL 5	LVL 6	LVL 7	LVL 8												
1,2-Dibromoethane	1216400 1574536	1366995 1667605	1501934 1777496	1492509 1690160	Lin2	47286	1646880						0.9970		0.9900	
1,2-Dibromo-3-Chloropropane	++++ 2439143	2171740 2747404	2302810 2841694	2347296 2726734	Lin2	114902	2654875						0.9950		0.9900	

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 64446

SDG No.: _____

Instrument ID: TAC045 GC Column: ZB-MR-2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/26/2010 14:57 Calibration End Date: 05/26/2010 17:45 Calibration ID: 5057

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-64393/2-A	CC15196.D
Level 2	IC 580-64393/3-A	CC15197.D
Level 3	IC 580-64393/4-A	CC15198.D
Level 4	IC 580-64393/5-A	CC15199.D
Level 5	IC 580-64393/6-A	CC15200.D
Level 6	ICRT 580-64393/7-A	CC15201.D
Level 7	IC 580-64393/8-A	CC15202.D
Level 8	IC 580-64393/9-A	CC15203.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
1,2-Dibromoethane	Lin2	121640 8338027	273399 17774955	750967 25352402	1492509	3936341	0.100 5.00	0.200 10.0	0.500 15.0	1.00	2.50
1,2-Dibromo-3-Chloropropane	Lin2	++++ 13737018	434348 28416940	1151405 40901004	2347296	6097857	++++ 5.00	0.200 10.0	0.500 15.0	1.00	2.50

Curve Type Legend:

Lin2 = Linear 1/conc^2

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: ICV 580-64393/10-A Calibration Date: 05/26/2010 18:09
 Instrument ID: TAC045 Calib Start Date: 05/26/2010 14:57
 GC Column: ZB-MR-1 ID: 0.32 (mm) Calib End Date: 05/26/2010 17:45
 Lab File ID: CC15204.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin2		21683760		0.581	0.571	1.8	
1,2-Dibromo-3-Chloropropane	Lin		35961150		0.567	0.571	-0.7	

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: ICV 580-64393/10-A Calibration Date: 05/26/2010 18:09
 Instrument ID: TAC045 Calib Start Date: 05/26/2010 14:57
 GC Column: ZB-MR-1 ID: 0.32 (mm) Calib End Date: 05/26/2010 17:45
 Lab File ID: CC15204.D

Analyte	RT	RT WINDOW	
		TO	FROM
Ethylene Dibromide	4.64	4.59	4.69
1,2-Dibromo-3-Chloropropane	9.46	9.40	9.50

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: ICV 580-64393/10-A Calibration Date: 05/26/2010 18:09
 Instrument ID: TAC045 Calib Start Date: 05/26/2010 14:57
 GC Column: ZB-MR-2 ID: 0.32 (mm) Calib End Date: 05/26/2010 17:45
 Lab File ID: CC15204.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin2		29891090		0.594	0.571	4.0	
1,2-Dibromo-3-Chloropropane	Lin		48217440		0.572	0.571	0.1	

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: ICV 580-64393/10-A Calibration Date: 05/26/2010 18:09
 Instrument ID: TAC045 Calib Start Date: 05/26/2010 14:57
 GC Column: ZB-MR-2 ID: 0.32 (mm) Calib End Date: 05/26/2010 17:45
 Lab File ID: CC15204.D

Analyte	RT	RT WINDOW	
		TO	FROM
Ethylene Dibromide	4.08	4.03	4.13
1,2-Dibromo-3-Chloropropane	8.69	8.64	8.74

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-64510/3 Calibration Date: 05/27/2010 12:20
 Instrument ID: TAC045 Calib Start Date: 05/26/2010 14:57
 GC Column: ZB-MR-1 ID: 0.32 (mm) Calib End Date: 05/26/2010 17:45
 Lab File ID: CC15207.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromoethane	Lin2		1195326		9.82	10.0	-1.8	
1,2-Dibromo-3-Chloropropane	Lin2		1920063		9.81	10.0	-1.9	

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-64510/3 Calibration Date: 05/27/2010 12:20
 Instrument ID: TAC045 Calib Start Date: 05/26/2010 14:57
 GC Column: ZB-MR-1 ID: 0.32 (mm) Calib End Date: 05/26/2010 17:45
 Lab File ID: CC15207.D

Analyte	RT	RT WINDOW	
		TO	FROM
1,2-Dibromoethane	4.63	4.58	4.68
1,2-Dibromo-3-Chloropropane	9.46	9.41	9.51

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-64510/3 Calibration Date: 05/27/2010 12:20
 Instrument ID: TAC045 Calib Start Date: 05/26/2010 14:57
 GC Column: ZB-MR-2 ID: 0.32 (mm) Calib End Date: 05/26/2010 17:45
 Lab File ID: CC15207.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromoethane	Lin2		1758432		10.7	10.0	7.1	
1,2-Dibromo-3-Chloropropane	Lin2		2659906		10.1	10.0	0.6	

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-64510/3 Calibration Date: 05/27/2010 12:20
 Instrument ID: TAC045 Calib Start Date: 05/26/2010 14:57
 GC Column: ZB-MR-2 ID: 0.32 (mm) Calib End Date: 05/26/2010 17:45
 Lab File ID: CC15207.D

Analyte	RT	RT WINDOW	
		TO	FROM
1,2-Dibromoethane	4.06	4.01	4.11
1,2-Dibromo-3-Chloropropane	8.68	8.63	8.73

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64510/14 Calibration Date: 05/27/2010 17:37
 Instrument ID: TAC045 Calib Start Date: 05/26/2010 14:57
 GC Column: ZB-MR-1 ID: 0.32 (mm) Calib End Date: 05/26/2010 17:45
 Lab File ID: CC15218.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromoethane	Lin2		1354640		11.1	10.0	11.2	
1,2-Dibromo-3-Chloropropane	Lin2		2257470		11.5	10.0	15.3	

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64510/14 Calibration Date: 05/27/2010 17:37
 Instrument ID: TAC045 Calib Start Date: 05/26/2010 14:57
 GC Column: ZB-MR-1 ID: 0.32 (mm) Calib End Date: 05/26/2010 17:45
 Lab File ID: CC15218.D

Analyte	RT	RT WINDOW	
		TO	FROM
1,2-Dibromoethane	4.65	4.60	4.70
1,2-Dibromo-3-Chloropropane	9.45	9.41	9.51

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64510/14 Calibration Date: 05/27/2010 17:37
 Instrument ID: TAC045 Calib Start Date: 05/26/2010 14:57
 GC Column: ZB-MR-2 ID: 0.32 (mm) Calib End Date: 05/26/2010 17:45
 Lab File ID: CC15218.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromoethane	Lin2		1880989		11.5	10.0	14.5	
1,2-Dibromo-3-Chloropropane	Lin2		3068977		11.6	10.0	16.0	

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64510/14 Calibration Date: 05/27/2010 17:37
 Instrument ID: TAC045 Calib Start Date: 05/26/2010 14:57
 GC Column: ZB-MR-2 ID: 0.32 (mm) Calib End Date: 05/26/2010 17:45
 Lab File ID: CC15218.D

Analyte	RT	RT WINDOW	
		TO	FROM
1,2-Dibromoethane	4.09	4.04	4.14
1,2-Dibromo-3-Chloropropane	8.69	8.64	8.74

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64510/25 Calibration Date: 05/27/2010 22:01
 Instrument ID: TAC045 Calib Start Date: 05/26/2010 14:57
 GC Column: ZB-MR-1 ID: 0.32 (mm) Calib End Date: 05/26/2010 17:45
 Lab File ID: CC15229.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromoethane	Lin2		1524337		12.5	10.0	25.1	
1,2-Dibromo-3-Chloropropane	Lin2		2601590		13.3	10.0	32.9	

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64510/25 Calibration Date: 05/27/2010 22:01
 Instrument ID: TAC045 Calib Start Date: 05/26/2010 14:57
 GC Column: ZB-MR-1 ID: 0.32 (mm) Calib End Date: 05/26/2010 17:45
 Lab File ID: CC15229.D

Analyte	RT	RT WINDOW	
		TO	FROM
1,2-Dibromoethane	4.66	4.61	4.71
1,2-Dibromo-3-Chloropropane	9.46	9.41	9.51

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64510/25 Calibration Date: 05/27/2010 22:01
 Instrument ID: TAC045 Calib Start Date: 05/26/2010 14:57
 GC Column: ZB-MR-2 ID: 0.32 (mm) Calib End Date: 05/26/2010 17:45
 Lab File ID: CC15229.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromoethane	Lin2		2114334		12.9	10.0	28.7	
1,2-Dibromo-3-Chloropropane	Lin2		3402439		12.9	10.0	28.6	

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64510/25 Calibration Date: 05/27/2010 22:01
 Instrument ID: TAC045 Calib Start Date: 05/26/2010 14:57
 GC Column: ZB-MR-2 ID: 0.32 (mm) Calib End Date: 05/26/2010 17:45
 Lab File ID: CC15229.D

Analyte	RT	RT WINDOW	
		TO	FROM
1,2-Dibromoethane	4.10	4.05	4.15
1,2-Dibromo-3-Chloropropane	8.69	8.64	8.74

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-64393/1-A
 Matrix: Water Lab File ID: CC15208.D
 Analysis Method: 8011 Date Collected: _____
 Extraction Method: 8011 Date Extracted: 05/26/2010 10:44
 Sample wt/vol: 35 (mL) Date Analyzed: 05/27/2010 13:37
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 2 (uL) GC Column: ZB-MR-1 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64510 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
106-93-4	1,2-Dibromoethane	ND		0.010	0.010

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-64393/11-A
 Matrix: Water Lab File ID: CC15209.D
 Analysis Method: 8011 Date Collected: _____
 Extraction Method: 8011 Date Extracted: 05/26/2010 17:03
 Sample wt/vol: 35 (mL) Date Analyzed: 05/27/2010 14:01
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 2 (uL) GC Column: ZB-MR-1 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64510 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
106-93-4	1,2-Dibromoethane	0.324		0.010	0.010

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-64393/12-A
 Matrix: Water Lab File ID: CC15210.D
 Analysis Method: 8011 Date Collected: _____
 Extraction Method: 8011 Date Extracted: 05/26/2010 17:03
 Sample wt/vol: 35 (mL) Date Analyzed: 05/27/2010 14:25
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 2 (uL) GC Column: ZB-MR-1 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64510 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
106-93-4	1,2-Dibromoethane	0.358		0.010	0.010

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W MS Lab Sample ID: 580-19562-3 MS
 Matrix: Water Lab File ID: CC15214.D
 Analysis Method: 8011 Date Collected: 05/24/2010 10:34
 Extraction Method: 8011 Date Extracted: 05/26/2010 17:03
 Sample wt/vol: 35 (mL) Date Analyzed: 05/27/2010 16:00
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 2 (uL) GC Column: ZB-MR-1 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64510 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
106-93-4	1,2-Dibromoethane	0.623		0.010	0.010

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W MSD Lab Sample ID: 580-19562-3 MSD
 Matrix: Water Lab File ID: CC15215.D
 Analysis Method: 8011 Date Collected: 05/24/2010 10:34
 Extraction Method: 8011 Date Extracted: 05/26/2010 17:03
 Sample wt/vol: 35 (mL) Date Analyzed: 05/27/2010 16:24
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 2 (uL) GC Column: ZB-MR-1 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64510 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
106-93-4	1,2-Dibromoethane	0.633		0.010	0.010

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Instrument ID: TAC045 Start Date: 05/26/2010 12:40Analysis Batch Number: 64446 End Date: 05/26/2010 18:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/26/2010 12:40	1		ZB-MR-1 0.32 (mm)
ZZZZZ		05/26/2010 12:40	1		ZB-MR-2 0.32 (mm)
ZZZZZ		05/26/2010 13:03	1		ZB-MR-1 0.32 (mm)
ZZZZZ		05/26/2010 13:03	1		ZB-MR-2 0.32 (mm)
ZZZZZ		05/26/2010 14:10	1		ZB-MR-1 0.32 (mm)
ZZZZZ		05/26/2010 14:10	1		ZB-MR-2 0.32 (mm)
IC 580-64393/2-A		05/26/2010 14:57	1	CC15196.D	ZB-MR-1 0.32 (mm)
IC 580-64393/2-A		05/26/2010 14:57	1	CC15196.D	ZB-MR-2 0.32 (mm)
IC 580-64393/3-A		05/26/2010 15:21	1	CC15197.D	ZB-MR-1 0.32 (mm)
IC 580-64393/3-A		05/26/2010 15:21	1	CC15197.D	ZB-MR-2 0.32 (mm)
IC 580-64393/4-A		05/26/2010 15:45	1	CC15198.D	ZB-MR-1 0.32 (mm)
IC 580-64393/4-A		05/26/2010 15:45	1	CC15198.D	ZB-MR-2 0.32 (mm)
IC 580-64393/5-A		05/26/2010 16:09	1	CC15199.D	ZB-MR-1 0.32 (mm)
IC 580-64393/5-A		05/26/2010 16:09	1	CC15199.D	ZB-MR-2 0.32 (mm)
IC 580-64393/6-A		05/26/2010 16:33	1	CC15200.D	ZB-MR-1 0.32 (mm)
IC 580-64393/6-A		05/26/2010 16:33	1	CC15200.D	ZB-MR-2 0.32 (mm)
ICRT 580-64393/7-A		05/26/2010 16:57	1	CC15201.D	ZB-MR-1 0.32 (mm)
ICRT 580-64393/7-A		05/26/2010 16:57	1	CC15201.D	ZB-MR-2 0.32 (mm)
IC 580-64393/8-A		05/26/2010 17:21	1	CC15202.D	ZB-MR-1 0.32 (mm)
IC 580-64393/8-A		05/26/2010 17:21	1	CC15202.D	ZB-MR-2 0.32 (mm)
IC 580-64393/9-A		05/26/2010 17:45	1	CC15203.D	ZB-MR-1 0.32 (mm)
IC 580-64393/9-A		05/26/2010 17:45	1	CC15203.D	ZB-MR-2 0.32 (mm)
ICV 580-64393/10-A		05/26/2010 18:09	1	CC15204.D	ZB-MR-1 0.32 (mm)
ICV 580-64393/10-A		05/26/2010 18:09	1	CC15204.D	ZB-MR-2 0.32 (mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TacomaJob No.: 580-19562-1

SDG No.: _____

Instrument ID: TAC045Start Date: 05/27/2010 12:20Analysis Batch Number: 64510End Date: 05/27/2010 22:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 580-64510/3		05/27/2010 12:20	1	CC15207.D	ZB-MR-1 0.32 (mm)
CCVRT 580-64510/3		05/27/2010 12:20	1	CC15207.D	ZB-MR-2 0.32 (mm)
MB 580-64393/1-A		05/27/2010 13:37	1	CC15208.D	ZB-MR-1 0.32 (mm)
MB 580-64393/1-A		05/27/2010 13:37	1	CC15208.D	ZB-MR-2 0.32 (mm)
LCS 580-64393/11-A		05/27/2010 14:01	1	CC15209.D	ZB-MR-1 0.32 (mm)
LCS 580-64393/11-A		05/27/2010 14:01	1	CC15209.D	ZB-MR-2 0.32 (mm)
LCSD 580-64393/12-A		05/27/2010 14:25	1	CC15210.D	ZB-MR-1 0.32 (mm)
LCSD 580-64393/12-A		05/27/2010 14:25	1	CC15210.D	ZB-MR-2 0.32 (mm)
580-19562-1	MW3-052410-W	05/27/2010 14:49	1	CC15211.D	ZB-MR-1 0.32 (mm)
580-19562-1	MW3-052410-W	05/27/2010 14:49	1	CC15211.D	ZB-MR-2 0.32 (mm)
580-19562-2	MW18-052410-W	05/27/2010 15:12	1	CC15212.D	ZB-MR-1 0.32 (mm)
580-19562-2	MW18-052410-W	05/27/2010 15:12	1	CC15212.D	ZB-MR-2 0.32 (mm)
580-19562-3	MW16-052410-W	05/27/2010 15:36	1	CC15213.D	ZB-MR-1 0.32 (mm)
580-19562-3	MW16-052410-W	05/27/2010 15:36	1	CC15213.D	ZB-MR-2 0.32 (mm)
580-19562-3 MS	MW16-052410-W MS	05/27/2010 16:00	1	CC15214.D	ZB-MR-1 0.32 (mm)
580-19562-3 MS	MW16-052410-W MS	05/27/2010 16:00	1	CC15214.D	ZB-MR-2 0.32 (mm)
580-19562-3 MSD	MW16-052410-W MSD	05/27/2010 16:24	1	CC15215.D	ZB-MR-1 0.32 (mm)
580-19562-3 MSD	MW16-052410-W MSD	05/27/2010 16:24	1	CC15215.D	ZB-MR-2 0.32 (mm)
580-19562-4	MW8-052410-W	05/27/2010 16:48	1	CC15216.D	ZB-MR-1 0.32 (mm)
580-19562-4	MW8-052410-W	05/27/2010 16:48	1	CC15216.D	ZB-MR-2 0.32 (mm)
580-19562-5	Dupe1-052410-W	05/27/2010 17:13	1	CC15217.D	ZB-MR-1 0.32 (mm)
580-19562-5	Dupe1-052410-W	05/27/2010 17:13	1	CC15217.D	ZB-MR-2 0.32 (mm)
CCV 580-64510/14		05/27/2010 17:37	1	CC15218.D	ZB-MR-1 0.32 (mm)
CCV 580-64510/14		05/27/2010 17:37	1	CC15218.D	ZB-MR-2 0.32 (mm)
ZZZZZ		05/27/2010 18:01	1		ZB-MR-1 0.32 (mm)
ZZZZZ		05/27/2010 18:01	1		ZB-MR-2 0.32 (mm)
580-19562-6	Trip Blank	05/27/2010 18:25	1	CC15220.D	ZB-MR-1 0.32 (mm)
580-19562-6	Trip Blank	05/27/2010 18:25	1	CC15220.D	ZB-MR-2 0.32 (mm)
580-19562-7	MW17-052410-W	05/27/2010 18:49	1	CC15221.D	ZB-MR-1 0.32 (mm)
580-19562-7	MW17-052410-W	05/27/2010 18:49	1	CC15221.D	ZB-MR-2 0.32 (mm)
ZZZZZ		05/27/2010 19:13	1		ZB-MR-1 0.32 (mm)
ZZZZZ		05/27/2010 19:13	1		ZB-MR-2 0.32 (mm)
ZZZZZ		05/27/2010 19:37	1		ZB-MR-1 0.32 (mm)
ZZZZZ		05/27/2010 19:37	1		ZB-MR-2 0.32 (mm)
ZZZZZ		05/27/2010 20:01	1		ZB-MR-1 0.32 (mm)
ZZZZZ		05/27/2010 20:01	1		ZB-MR-2 0.32 (mm)
ZZZZZ		05/27/2010 20:25	1		ZB-MR-1 0.32 (mm)
ZZZZZ		05/27/2010 20:25	1		ZB-MR-2 0.32 (mm)
ZZZZZ		05/27/2010 20:49	1		ZB-MR-1 0.32 (mm)
ZZZZZ		05/27/2010 20:49	1		ZB-MR-2 0.32 (mm)
CCV 580-64510/25		05/27/2010 22:01	1	CC15229.D	ZB-MR-1 0.32 (mm)
CCV 580-64510/25		05/27/2010 22:01	1	CC15229.D	ZB-MR-2 0.32 (mm)

Organic Prep Worksheet

Batch Number: 580-64393

Date Open: May 26 2010 10:44AM

Method: 8011

Batch End: May 26 2010 5:03PM

Analyst: Muir, Michelle A

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	EDB SPK std_00010
MB~580-64393/1		8011, 8011		35 mL	2 mL	
IC~580-64393/2				35 mL	2 mL	
IC~580-64393/3				35 mL	2 mL	
IC~580-64393/4				35 mL	2 mL	
IC~580-64393/5				35 mL	2 mL	
IC~580-64393/6				35 mL	2 mL	
ICRT~580-64393/7		8011, 8011		35 mL	2 mL	
IC~580-64393/8				35 mL	2 mL	
IC~580-64393/9				35 mL	2 mL	
ICV~580-64393/10		8011, 8011		35 mL	2 mL	
LCS~580-64393/11		8011, 8011		35 mL	2 mL	100 uL
LCSD~580-64393/12		8011, 8011		35 mL	2 mL	100 uL
580-19562-I-1	MW3-052410-W	8011, 8011	T	35 mL	2 mL	
580-19562-I-2	MW18-052410-W	8011, 8011	T	35 mL	2 mL	
580-19562-I-3	MW16-052410-W	8011, 8011	T	35 mL	2 mL	
580-19562-I-3-MS	MW16-052410-W	8011, 8011	T	35 mL	2 mL	200 uL
580-19562-I-3-MSD	MW16-052410-W	8011, 8011	T	35 mL	2 mL	200 uL
580-19562-I-4	MW8-052410-W	8011, 8011	T	35 mL	2 mL	
580-19562-I-5	Dupe1-052410-W	8011, 8011	T	35 mL	2 mL	
580-19562-I-6	Trip Blank	8011, 8011	T	35 mL	2 mL	
580-19562-I-7	MW17-052410-W	8011, 8011	T	35 mL	2 mL	

NaCL Lot #: 0529909

Hexane Lot#: H33E04

Sufficient volume for MS/MSD?: yes

Organic Prep Worksheet

Batch Number: 580-64393

Method: 8011

Analyst: Muir, Michelle A

Date Open: May 26 2010 10:44AM

Batch End: May 26 2010 5:03PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
MB~580-64393/1		8011, 8011		
IC~580-64393/2				
IC~580-64393/3				
IC~580-64393/4				
IC~580-64393/5				
IC~580-64393/6				
ICRT~580-64393/7		8011, 8011		
IC~580-64393/8				
IC~580-64393/9				
ICV~580-64393/10		8011, 8011		
LCS~580-64393/11		8011, 8011		
LCSD~580-64393/12		8011, 8011		
580-19562-I-1	MW3-052410-W	8011, 8011	T	
580-19562-I-2	MW18-052410-W	8011, 8011	T	
580-19562-I-3	MW16-052410-W	8011, 8011	T	
580-19562-I-3-MS	MW16-052410-W	8011, 8011	T	
580-19562-I-3-MSD	MW16-052410-W	8011, 8011	T	
580-19562-I-4	MW8-052410-W	8011, 8011	T	
580-19562-I-5	Dupe1-052410-W	8011, 8011	T	
580-19562-I-6	Trip Blank	8011, 8011	T	
580-19562-I-7	MW17-052410-W	8011, 8011	T	

Batch Comment:

client specified MS/MSD

Method 8082

Polychlorinated Biphenyls (PCBs) by
Gas Chromatography by Method 8082

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): DB-35MS ID: 0.32 (mm) GC Column (2): DB-XLB ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
MW3-052410-W	580-19562-1	105		124	
MW18-052410-W	580-19562-2	107		114	
MW16-052410-W	580-19562-3	108		130	
MW8-052410-W	580-19562-4	102		126	
Dupe1-052410-W	580-19562-5	103		125	
MW17-052410-W	580-19562-7	103		89	
	MB 580-64456/1-A		84		88
	LCS 580-64456/2-A		97		100
MW16-052410-W MS	580-19562-3 MS	99		118	
MW16-052410-W MSD	580-19562-3 MSD	100		125	

QC LIMITS

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

60-150
40-135

Column to be used to flag recovery values

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: PCB27898.D

Lab ID: LCS 580-64456/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	0.100	0.0945	94	25-145	
PCB-1260	0.100	0.118	118	30-145	

Column to be used to flag recovery and RPD values

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: PCB27854.D

Lab ID: 580-19562-3 MS Client ID: MW16-052410-W MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
PCB-1016	0.0943	ND	0.0705	75	25-145	
PCB-1260	0.0943	ND	0.0748	79	30-145	

Column to be used to flag recovery and RPD values

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PCB27855.D
 Lab ID: 580-19562-3 MSD Client ID: MW16-052410-W MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
PCB-1016	0.0943	0.0881	93	22	27	25-145	
PCB-1260	0.0943	0.0877	93	16	22	30-145	

Column to be used to flag recovery and RPD values

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: MB 580-64456/1-A
 Matrix: Water Date Extracted: 05/26/2010 17:25
 Lab File ID: (1) PCB27894.D Lab File ID: (2) PCB27894.D
 Date Analyzed: (1) 06/08/2010 12:01 Date Analyzed: (2) 06/08/2010 12:01
 Instrument ID: (1) TAC034 Instrument ID: (2) TAC034
 GC Column: (1) DB-35MS ID: 0.32 (mm) GC Column: (2) DB-XLB ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
MW3-052410-W	580-19562-1	06/01/2010 09:51	06/01/2010 09:51
MW18-052410-W	580-19562-2	06/01/2010 10:06	06/01/2010 10:06
MW16-052410-W	580-19562-3	06/01/2010 10:22	06/01/2010 10:22
MW16-052410-W MS	580-19562-3 MS	06/01/2010 10:37	06/01/2010 10:37
MW16-052410-W MSD	580-19562-3 MSD	06/01/2010 10:53	06/01/2010 10:53
MW8-052410-W	580-19562-4	06/01/2010 11:08	06/01/2010 11:08
Dupe1-052410-W	580-19562-5	06/01/2010 11:24	06/01/2010 11:24
MW17-052410-W	580-19562-7	06/01/2010 11:39	06/01/2010 11:39
	LCS 580-64456/2-A	06/08/2010 13:14	06/08/2010 13:14

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Instrument ID: TAC034 Calibration Start Date: 05/11/2010 10:17
 GC Column: DB-35MS ID: 0.32 (mm) Calibration End Date: 05/11/2010 11:34
 Calibration ID: 4874

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
SURROGATE RT FROM CONTINUING CALIBRATION				3.45	8.18	
UPPER LIMIT				3.48	8.21	
LOWER LIMIT				3.42	8.15	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-64687/2		06/01/2010 08:19	PCB27847.D	3.45	8.18	
580-19562-1	MW3-052410-W	06/01/2010 09:51	PCB27851.D	3.45	8.18	
580-19562-2	MW18-052410-W	06/01/2010 10:06	PCB27852.D	3.45	8.18	
580-19562-3	MW16-052410-W	06/01/2010 10:22	PCB27853.D	3.45	8.18	
580-19562-3 MS	MW16-052410-W MS	06/01/2010 10:37	PCB27854.D	3.45	8.18	
580-19562-3 MSD	MW16-052410-W MSD	06/01/2010 10:53	PCB27855.D	3.45	8.18	
580-19562-4	MW8-052410-W	06/01/2010 11:08	PCB27856.D	3.45	8.18	
580-19562-5	Dupe1-052410-W	06/01/2010 11:24	PCB27857.D	3.45	8.18	
580-19562-7	MW17-052410-W	06/01/2010 11:39	PCB27858.D	3.45	8.18	
CCV 580-64687/14		06/01/2010 11:55	PCB27859.D	3.45	8.18	

TCX = Tetrachloro-m-xylene
 DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± .03 minutes of surrogate RT
 DCB RT Limit = ± .03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Instrument ID: TAC034 Calibration Start Date: 05/11/2010 10:17
 GC Column: DB-XLB ID: 0.32 (mm) Calibration End Date: 05/11/2010 11:34
 Calibration ID: 4875

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
SURROGATE RT FROM CONTINUING CALIBRATION				3.60	8.31	
UPPER LIMIT				3.63	8.34	
LOWER LIMIT				3.57	8.28	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-64687/2		06/01/2010 08:19	PCB27847.D	3.60	8.31	
CCV 580-64687/14		06/01/2010 11:55	PCB27859.D	3.60	8.31	

TCX = Tetrachloro-m-xylene
 DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± .03 minutes of surrogate RT
 DCB RT Limit = ± .03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Instrument ID: TAC034 Calibration Start Date: 05/11/2010 10:17
 GC Column: DB-35MS ID: 0.32 (mm) Calibration End Date: 05/11/2010 11:34
 Calibration ID: 4874

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
SURROGATE RT FROM CONTINUING CALIBRATION				3.45	8.18	
UPPER LIMIT				3.48	8.21	
LOWER LIMIT				3.42	8.15	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-65215/2		06/08/2010 11:18	PCB27893.D	3.45	8.18	
CCV 580-65215/5		06/08/2010 12:32	PCB27896.D	3.45	8.18	
CCV 580-65215/8		06/08/2010 13:29	PCB27899.D	3.45	8.18	

TCX = Tetrachloro-m-xylene
 DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± .03 minutes of surrogate RT
 DCB RT Limit = ± .03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Instrument ID: TAC034 Calibration Start Date: 05/11/2010 10:17
 GC Column: DB-XLB ID: 0.32 (mm) Calibration End Date: 05/11/2010 11:34
 Calibration ID: 4875

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
SURROGATE RT FROM CONTINUING CALIBRATION				3.60	8.31	
UPPER LIMIT				3.63	8.34	
LOWER LIMIT				3.57	8.28	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-65215/2		06/08/2010 11:18	PCB27893.D	3.60	8.31	
MB 580-64456/1-A		06/08/2010 12:01	PCB27894.D	3.60	8.31	
CCV 580-65215/5		06/08/2010 12:32	PCB27896.D	3.60	8.31	
LCS 580-64456/2-A		06/08/2010 13:14	PCB27898.D	3.60	8.31	
CCV 580-65215/8		06/08/2010 13:29	PCB27899.D	3.60	8.31	

TCX = Tetrachloro-m-xylene
 DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± .03 minutes of surrogate RT
 DCB RT Limit = ± .03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W MS Lab Sample ID: 580-19562-3 MS
 Instrument ID (1): TAC034 Instrument ID (2): TAC034
 Date Analyzed (1): 06/01/2010 10:37 Date Analyzed (2): 06/01/2010 10:37
 GC Column (1): DB-35MS ID: 0.32 (mm) GC Column (2): DB-XLB ID: 0.32 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	4.42	4.39	4.45	0.0613	0.0705	14.2
		2	4.74	4.71	4.77	0.0652		
		3	4.86	4.83	4.89	0.0542		
		4	4.92	4.89	4.95	0.115		
		5	5.14	5.11	5.17	0.0564		
	2	1	4.52	4.49	4.55	0.0693	0.0611	
		2	4.87	4.84	4.90	0.0537		
		3	4.96	4.93	4.99	0.0745		
		4	5.06	5.03	5.09	0.0517		
		5	5.24	5.21	5.27	0.0564		
PCB-1260	1	1	6.14	6.11	6.17	0.0667	0.0748	4.7
		2	6.32	6.29	6.35	0.0628		
		3	6.45	6.42	6.48	0.0719		
		4	7.08	7.05	7.11	0.0808		
		5	7.37	7.34	7.40	0.0918		
	2	1	6.27	6.24	6.30	0.0665	0.0784	
		3	6.73	6.70	6.76	0.0708		
		4	7.23	7.21	7.27	0.0896		
		5	7.45	7.42	7.48	0.0867		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W MSD Lab Sample ID: 580-19562-3 MSD
 Instrument ID (1): TAC034 Instrument ID (2): TAC034
 Date Analyzed (1): 06/01/2010 10:53 Date Analyzed (2): 06/01/2010 10:53
 GC Column (1): DB-35MS ID: 0.32 (mm) GC Column (2): DB-XLB ID: 0.32 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	4.42	4.39	4.45	0.0665	0.0881	21.5
		2	4.74	4.71	4.77	0.0700		
		3	4.86	4.83	4.89	0.0714		
		4	4.92	4.89	4.95	0.143		
		5	5.14	5.11	5.17	0.0898		
	2	1	4.52	4.49	4.55	0.0770	0.0710	
		2	4.87	4.84	4.90	0.0556		
		3	4.96	4.93	4.99	0.0833		
		4	5.06	5.03	5.09	0.0583		
		5	5.24	5.21	5.27	0.0809		
PCB-1260	1	1	6.14	6.11	6.17	0.0877	0.0877	5.6
		2	6.32	6.29	6.35	0.0787		
		3	6.45	6.42	6.48	0.0776		
		4	7.08	7.05	7.11	0.0988		
		5	7.37	7.34	7.40	0.0955		
	2	1	6.27	6.24	6.30	0.0771	0.0927	
		3	6.73	6.70	6.76	0.0841		
		4	7.24	7.21	7.27	0.105		
		5	7.45	7.42	7.48	0.104		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-64456/2-A
 Instrument ID (1): TAC034 Instrument ID (2): TAC034
 Date Analyzed (1): 06/08/2010 13:14 Date Analyzed (2): 06/08/2010 13:14
 GC Column (1): DB-35MS ID: 0.32 (mm) GC Column (2): DB-XLB ID: 0.32 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	4.42	4.39	4.45	0.0951	0.0982	3.8
		2	4.74	4.71	4.77	0.0950		
		3	4.86	4.83	4.89	0.0978		
		4	4.92	4.89	4.95	0.102		
		5	5.13	5.11	5.17	0.101		
	2	1	4.52	4.49	4.55	0.106	0.0945	
		2	4.87	4.84	4.90	0.0847		
		3	4.96	4.93	4.99	0.0883		
		4	5.06	5.03	5.09	0.0889		
		5	5.24	5.21	5.27	0.105		
PCB-1260	1	1	6.14	6.11	6.17	0.107	0.111	6.0
		2	6.32	6.29	6.35	0.103		
		3	6.45	6.42	6.48	0.112		
		4	7.08	7.05	7.11	0.116		
		5	7.37	7.34	7.40	0.117		
	2	1	6.27	6.24	6.30	0.111	0.118	
		2	6.60	6.57	6.63	0.107		
		3	6.73	6.70	6.76	0.108		
		4	7.24	7.20	7.26	0.130		
		5	7.45	7.42	7.48	0.133		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW3-052410-W Lab Sample ID: 580-19562-1
 Matrix: Water Lab File ID: PCB27851.D
 Analysis Method: 8082 Date Collected: 05/24/2010 08:00
 Extraction Method: 3520C Date Extracted: 05/26/2010 17:25
 Sample wt/vol: 1060(mL) Date Analyzed: 06/01/2010 09:51
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: DB-35MS ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64687 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.0094	0.0042
11104-28-2	PCB-1221	ND		0.0094	0.0058
11141-16-5	PCB-1232	ND		0.0094	0.0039
53469-21-9	PCB-1242	ND		0.0094	0.0039
12672-29-6	PCB-1248	ND		0.0094	0.0067
11097-69-1	PCB-1254	ND		0.0094	0.0042
11096-82-5	PCB-1260	ND		0.0094	0.0037

CAS NO.	SURROGATE	%REC	LIMITS	Q
877-09-8	Tetrachloro-m-xylene	105	60-150	
2051-24-3	DCB Decachlorobiphenyl	124	40-135	

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW18-052410-W Lab Sample ID: 580-19562-2
 Matrix: Water Lab File ID: PCB27852.D
 Analysis Method: 8082 Date Collected: 05/24/2010 09:20
 Extraction Method: 3520C Date Extracted: 05/26/2010 17:25
 Sample wt/vol: 1060(mL) Date Analyzed: 06/01/2010 10:06
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: DB-35MS ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64687 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.0094	0.0042
11104-28-2	PCB-1221	ND		0.0094	0.0058
11141-16-5	PCB-1232	ND		0.0094	0.0039
53469-21-9	PCB-1242	ND		0.0094	0.0039
12672-29-6	PCB-1248	ND		0.0094	0.0067
11097-69-1	PCB-1254	ND		0.0094	0.0042
11096-82-5	PCB-1260	ND		0.0094	0.0037

CAS NO.	SURROGATE	%REC	LIMITS	Q
877-09-8	Tetrachloro-m-xylene	107	60-150	
2051-24-3	DCB Decachlorobiphenyl	114	40-135	

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W Lab Sample ID: 580-19562-3
 Matrix: Water Lab File ID: PCB27853.D
 Analysis Method: 8082 Date Collected: 05/24/2010 10:34
 Extraction Method: 3520C Date Extracted: 05/26/2010 17:25
 Sample wt/vol: 1060(mL) Date Analyzed: 06/01/2010 10:22
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: DB-35MS ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64687 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.0094	0.0042
11104-28-2	PCB-1221	ND		0.0094	0.0058
11141-16-5	PCB-1232	ND		0.0094	0.0039
53469-21-9	PCB-1242	ND		0.0094	0.0039
12672-29-6	PCB-1248	ND		0.0094	0.0067
11097-69-1	PCB-1254	ND		0.0094	0.0042
11096-82-5	PCB-1260	ND		0.0094	0.0037

CAS NO.	SURROGATE	%REC	LIMITS	Q
877-09-8	Tetrachloro-m-xylene	108	60-150	
2051-24-3	DCB Decachlorobiphenyl	130	40-135	

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW8-052410-W Lab Sample ID: 580-19562-4
 Matrix: Water Lab File ID: PCB27856.D
 Analysis Method: 8082 Date Collected: 05/24/2010 12:10
 Extraction Method: 3520C Date Extracted: 05/26/2010 17:25
 Sample wt/vol: 1060 (mL) Date Analyzed: 06/01/2010 11:08
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: DB-35MS ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64687 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.0094	0.0042
11104-28-2	PCB-1221	ND		0.0094	0.0058
11141-16-5	PCB-1232	ND		0.0094	0.0039
53469-21-9	PCB-1242	ND		0.0094	0.0039
12672-29-6	PCB-1248	ND		0.0094	0.0067
11097-69-1	PCB-1254	ND		0.0094	0.0042
11096-82-5	PCB-1260	ND		0.0094	0.0037

CAS NO.	SURROGATE	%REC	LIMITS	Q
877-09-8	Tetrachloro-m-xylene	102	60-150	
2051-24-3	DCB Decachlorobiphenyl	126	40-135	

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: Dupe1-052410-W Lab Sample ID: 580-19562-5
 Matrix: Water Lab File ID: PCB27857.D
 Analysis Method: 8082 Date Collected: 05/24/2010 00:00
 Extraction Method: 3520C Date Extracted: 05/26/2010 17:25
 Sample wt/vol: 1060(mL) Date Analyzed: 06/01/2010 11:24
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: DB-35MS ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64687 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.0094	0.0042
11104-28-2	PCB-1221	ND		0.0094	0.0058
11141-16-5	PCB-1232	ND		0.0094	0.0039
53469-21-9	PCB-1242	ND		0.0094	0.0039
12672-29-6	PCB-1248	ND		0.0094	0.0067
11097-69-1	PCB-1254	ND		0.0094	0.0042
11096-82-5	PCB-1260	ND		0.0094	0.0037

CAS NO.	SURROGATE	%REC	LIMITS	Q
877-09-8	Tetrachloro-m-xylene	103	60-150	
2051-24-3	DCB Decachlorobiphenyl	125	40-135	

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW17-052410-W Lab Sample ID: 580-19562-7
 Matrix: Water Lab File ID: PCB27858.D
 Analysis Method: 8082 Date Collected: 05/24/2010 14:20
 Extraction Method: 3520C Date Extracted: 05/26/2010 17:25
 Sample wt/vol: 1060 (mL) Date Analyzed: 06/01/2010 11:39
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: DB-35MS ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64687 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.0094	0.0042
11104-28-2	PCB-1221	ND		0.0094	0.0058
11141-16-5	PCB-1232	ND		0.0094	0.0039
53469-21-9	PCB-1242	ND		0.0094	0.0039
12672-29-6	PCB-1248	ND		0.0094	0.0067
11097-69-1	PCB-1254	ND		0.0094	0.0042
11096-82-5	PCB-1260	ND		0.0094	0.0037

CAS NO.	SURROGATE	%REC	LIMITS	Q
877-09-8	Tetrachloro-m-xylene	103	60-150	
2051-24-3	DCB Decachlorobiphenyl	89	40-135	

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-35MS ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 10:17 Calibration End Date: 05/11/2010 11:34 Calibration ID: 4874

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/2	PCB27661.D
Level 2	IC 580-63352/3	PCB27662.D
Level 3	IC 580-63352/4	PCB27663.D
Level 4	ICRT 580-63352/5	PCB27664.D
Level 5	IC 580-63352/6	PCB27665.D
Level 6	IC 580-63352/7	PCB27666.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1016 Peak 1	4.426	4.422	4.422	4.422	4.421	4.422					4.392 - 4.452	4.423
PCB-1016 Peak 2	4.745	4.740	4.740	4.741	4.741	4.741					4.715 - 4.775	4.741
PCB-1016 Peak 3	4.869	4.865	4.864	4.864	4.865	4.865					4.839 - 4.899	4.865
PCB-1016 Peak 4	4.928	4.923	4.922	4.923	4.923	4.923					4.898 - 4.958	4.924
PCB-1016 Peak 5	5.140	5.136	5.135	5.136	5.136	5.136					5.106 - 5.166	5.137
PCB-1260 Peak 1	6.150	6.146	6.145	6.145	6.146	6.145					6.115 - 6.175	6.146
PCB-1260 Peak 2	6.329	6.324	6.323	6.323	6.323	6.324					6.294 - 6.354	6.324
PCB-1260 Peak 3	6.461	6.457	6.455	6.456	6.456	6.456					6.426 - 6.486	6.457
PCB-1260 Peak 4	7.089	7.085	7.085	7.085	7.086	7.085					7.055 - 7.115	7.086
PCB-1260 Peak 5	7.373	7.369	7.367	7.367	7.368	7.367					7.337 - 7.397	7.369
Tetrachloro-m-xylene	3.450	3.446	3.447	3.447	3.447	3.448					3.420 - 3.480	3.448
DCB Decachlorobiphenyl	8.186	8.181	8.180	8.180	8.182	8.181					8.151 - 8.211	8.182

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-35MS ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 10:17 Calibration End Date: 05/11/2010 11:34 Calibration ID: 4874

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/2	PCB27661.D
Level 2	IC 580-63352/3	PCB27662.D
Level 3	IC 580-63352/4	PCB27663.D
Level 4	ICRT 580-63352/5	PCB27664.D
Level 5	IC 580-63352/6	PCB27665.D
Level 6	IC 580-63352/7	PCB27666.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1016 Peak 1	122931 68176	81394 66199	73919	73313	Lin1	483852	66231							0.9990		0.9900
PCB-1016 Peak 2	107243 82453	91537 81088	94462	86725	Ave		90584			11.0		20.0				
PCB-1016 Peak 3	83982 68073	71368 67674	68572	71002	Ave		71778			8.6		20.0				
PCB-1016 Peak 4	65455 53653	61348 52156	56917	58277	Ave		57968			8.5		20.0				
PCB-1016 Peak 5	88964 67272	70557 66061	71038	71059	Ave		72492			12.0		20.0				
PCB-1260 Peak 1	166811 127658	146406 124287	133467	131715	Ave		138391			11.0		20.0				
PCB-1260 Peak 2	206352 153476	174224 148642	158458	159599	Ave		166792			13.0		20.0				
PCB-1260 Peak 3	246910 147334	165976 144531	150304	154153	Lin1	788264	144159						0.9990		0.9900	
PCB-1260 Peak 4	323109 244721	253155 240374	240800	249996	Ave		258692			12.0		20.0				
PCB-1260 Peak 5	243132 180622	197563 171584	178387	179859	Ave		191858			14.0		20.0				
Tetrachloro-m-xylene	3866760 3121958	2926641 3090633	2933977	3070838	Ave		3168468			11.0		20.0				
DCB Decachlorobiphenyl	2728079 2137076	2465718 2120491	2200196	2242068	Ave		2315605			10.0		20.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-35MS ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 10:17 Calibration End Date: 05/11/2010 11:34 Calibration ID: 4874

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/2	PCB27661.D
Level 2	IC 580-63352/3	PCB27662.D
Level 3	IC 580-63352/4	PCB27663.D
Level 4	ICRT 580-63352/5	PCB27664.D
Level 5	IC 580-63352/6	PCB27665.D
Level 6	IC 580-63352/7	PCB27666.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Lin1	1229314 66199237	1627879	3695951	7331263	34087855	10.0 1000	20.0	50.0	100	500
PCB-1016 Peak 2	Ave	1072426 81087642	1830739	4723101	8672470	41226342	10.0 1000	20.0	50.0	100	500
PCB-1016 Peak 3	Ave	839816 67674103	1427357	3428622	7100173	34036261	10.0 1000	20.0	50.0	100	500
PCB-1016 Peak 4	Ave	654549 52155732	1226956	2845864	5827689	26826629	10.0 1000	20.0	50.0	100	500
PCB-1016 Peak 5	Ave	889638 66060691	1411130	3551877	7105874	33635865	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 1	Ave	1668113 124286829	2928120	6673345	13171512	63828980	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 2	Ave	2063515 148641725	3484481	7922875	15959898	76738163	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 3	Lin1	2469098 144530582	3319512	7515192	15415264	73667206	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 4	Ave	3231091 240373664	5063095	12039977	24999580	122360334	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 5	Ave	2431323 171583661	3951252	8919360	17985933	90310968	10.0 1000	20.0	50.0	100	500
Tetrachloro-m-xylene	Ave	3866760 309063253	5853281	14669886	30708382	156097901	1.00 100	2.00	5.00	10.0	50.0
DCB Decachlorobiphenyl	Ave	2728079 212049141	4931435	11000982	22420679	106853781	1.00 100	2.00	5.00	10.0	50.0

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-XLB ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 10:17 Calibration End Date: 05/11/2010 11:34 Calibration ID: 4875

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/2	PCB27661.D
Level 2	IC 580-63352/3	PCB27662.D
Level 3	IC 580-63352/4	PCB27663.D
Level 4	ICRT 580-63352/5	PCB27664.D
Level 5	IC 580-63352/6	PCB27665.D
Level 6	IC 580-63352/7	PCB27666.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1016 Peak 1	4.523	4.523	4.523	4.523	4.524	4.524					4.493 - 4.553	4.523
PCB-1016 Peak 2	4.867	4.868	4.866	4.867	4.868	4.868					4.837 - 4.897	4.867
PCB-1016 Peak 3	4.958	4.958	4.957	4.957	4.958	4.958					4.927 - 4.987	4.958
PCB-1016 Peak 4	5.064	5.064	5.064	5.065	5.065	5.065					5.035 - 5.095	5.065
PCB-1016 Peak 5	5.245	5.245	5.245	5.245	5.245	5.245					5.215 - 5.275	5.245
PCB-1260 Peak 1	6.267	6.267	6.266	6.267	6.268	6.268					6.237 - 6.297	6.267
PCB-1260 Peak 2	6.606	6.605	6.603	6.602	6.602	6.602					6.572 - 6.632	6.603
PCB-1260 Peak 3	6.730	6.729	6.727	6.729	6.729	6.730					6.699 - 6.759	6.729
PCB-1260 Peak 4	7.236	7.236	7.236	7.236	7.236	7.237					7.206 - 7.266	7.236
PCB-1260 Peak 5	7.453	7.453	7.452	7.452	7.453	7.453					7.422 - 7.482	7.453
Tetrachloro-m-xylene	3.602	3.603	3.604	3.604	3.605	3.605					3.574 - 3.634	3.604
DCB Decachlorobiphenyl	8.310	8.309	8.308	8.309	8.310	8.310					8.279 - 8.339	8.309

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-XLB ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 10:17 Calibration End Date: 05/11/2010 11:34 Calibration ID: 4875

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/2	PCB27661.D
Level 2	IC 580-63352/3	PCB27662.D
Level 3	IC 580-63352/4	PCB27663.D
Level 4	ICRT 580-63352/5	PCB27664.D
Level 5	IC 580-63352/6	PCB27665.D
Level 6	IC 580-63352/7	PCB27666.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1016 Peak 1	196561 97606	151512 94005	113117	106687	Lin1	1072679	93865							1.0000		0.9900
PCB-1016 Peak 2	154446 112451	132556 110518	117357	124636	Ave		125327			13.0		20.0				
PCB-1016 Peak 3	134492 92837	126130 91318	92068	106811	Ave		107276			18.0		20.0				
PCB-1016 Peak 4	95521 69057	88595 69557	76728	84239	Ave		80616			13.0		20.0				
PCB-1016 Peak 5	108913 87054	99277 88760	98668	110219	Ave		98815			9.8		20.0				
PCB-1260 Peak 1	246118 168125	205460 165453	181174	179753	Ave		191014			16.0		20.0				
PCB-1260 Peak 2	553780 111113	309826 105593	184296	137963	Lin1	4350680	101066						0.9990		0.9900	
PCB-1260 Peak 3	274601 237027	267981 235871	243094	247749	Ave		251054			6.5		20.0				
PCB-1260 Peak 4	444475 306850	346564 306955	302647	311124	Ave		336436			16.0		20.0				
PCB-1260 Peak 5	241246 180842	201429 180027	177762	187026	Ave		194722			13.0		20.0				
Tetrachloro-m-xylene	4463115 4498238	4293142 4336677	4206256	4724053	Ave		4420247			4.2		20.0				
DCB Decachlorobiphenyl	3755184 2707047	3185268 2694151	2845177	2883267	Ave		3011682			13.0		20.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-XLB ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 10:17 Calibration End Date: 05/11/2010 11:34 Calibration ID: 4875

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/2	PCB27661.D
Level 2	IC 580-63352/3	PCB27662.D
Level 3	IC 580-63352/4	PCB27663.D
Level 4	ICRT 580-63352/5	PCB27664.D
Level 5	IC 580-63352/6	PCB27665.D
Level 6	IC 580-63352/7	PCB27666.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Lin1	1965610 94005359	3030248	5655830	10668708	48803071	10.0 1000	20.0	50.0	100	500
PCB-1016 Peak 2	Ave	1544458 110518275	2651111	5867837	12463648	56225326	10.0 1000	20.0	50.0	100	500
PCB-1016 Peak 3	Ave	1344920 91317511	2522605	4603392	10681118	46418690	10.0 1000	20.0	50.0	100	500
PCB-1016 Peak 4	Ave	955208 69556807	1771905	3836415	8423941	34528390	10.0 1000	20.0	50.0	100	500
PCB-1016 Peak 5	Ave	1089128 88759837	1985532	4933423	11021931	43526929	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 1	Ave	2461180 165452563	4109200	9058712	17975348	84062650	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 2	Lin1	5537795 105592951	6196511	9214820	13796314	55556741	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 3	Ave	2746009 235870576	5359624	12154719	24774853	118513498	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 4	Ave	4444754 306954539	6931280	15132360	31112442	153425076	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 5	Ave	2412459 180027346	4028588	8888086	18702598	90420786	10.0 1000	20.0	50.0	100	500
Tetrachloro-m-xylene	Ave	4463115 433667732	8586283	21031281	47240530	224911896	1.00 100	2.00	5.00	10.0	50.0
DCB Decachlorobiphenyl	Ave	3755184 269415093	6370536	14225884	28832672	135352343	1.00 100	2.00	5.00	10.0	50.0

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-35MS ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 12:45 Calibration End Date: 05/11/2010 14:02 Calibration ID: 4880

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/9	PCB27668.D
Level 2	IC 580-63352/10	PCB27669.D
Level 3	IC 580-63352/11	PCB27670.D
Level 4	IC 580-63352/12	PCB27671.D
Level 5	IC 580-63352/13	PCB27672.D
Level 6	IC 580-63352/14	PCB27673.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1221 Peak 1	3.697	3.695	3.695	3.694	3.694	3.695					3.665 - 3.725	3.695
PCB-1221 Peak 2	3.793	3.790	3.790	3.790	3.789	3.790					3.759 - 3.819	3.790
PCB-1221 Peak 3	3.879	3.873	3.873	3.872	3.872	3.873					3.842 - 3.902	3.874
PCB-1254 Peak 1	5.497	5.492	5.491	5.491	5.491	5.491					5.461 - 5.521	5.492
PCB-1254 Peak 2	5.648	5.643	5.643	5.642	5.642	5.642					5.612 - 5.672	5.643
PCB-1254 Peak 3	6.025	6.019	6.019	6.019	6.019	6.019					5.989 - 6.049	6.020
PCB-1254 Peak 4	6.240	6.235	6.234	6.234	6.233	6.234					6.204 - 6.264	6.235
PCB-1254 Peak 5	6.617	6.613	6.612	6.612	6.612	6.613					6.583 - 6.643	6.613

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-35MS ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 12:45 Calibration End Date: 05/11/2010 14:02 Calibration ID: 4880

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/9	PCB27668.D
Level 2	IC 580-63352/10	PCB27669.D
Level 3	IC 580-63352/11	PCB27670.D
Level 4	IC 580-63352/12	PCB27671.D
Level 5	IC 580-63352/13	PCB27672.D
Level 6	IC 580-63352/14	PCB27673.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1221 Peak 1	22447 26919	29165 23918	24794	25276	Ave		25420			9.3		20.0				
PCB-1221 Peak 2	27143 14258	22796 15688	19902	17128	Lin1	143315	15115						0.9970		0.9900	
PCB-1221 Peak 3	81492 67177	78305 61328	68306	68804	Ave		70902			11.0		20.0				
PCB-1254 Peak 1	190900 129885	159298 125950	128433	124292	Ave		143126			19.0		20.0				
PCB-1254 Peak 2	148732 112547	132255 130952	116577	115834	Ave		126150			11.0		20.0				
PCB-1254 Peak 3	243467 184380	195727 200146	177304	181539	Ave		197094			12.0		20.0				
PCB-1254 Peak 4	128170 107067	114618 99425	106079	101877	Ave		109539			9.6		20.0				
PCB-1254 Peak 5	214375 162515	183806 164808	158429	155683	Ave		173269			13.0		20.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-35MS ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 12:45 Calibration End Date: 05/11/2010 14:02 Calibration ID: 4880

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/9	PCB27668.D
Level 2	IC 580-63352/10	PCB27669.D
Level 3	IC 580-63352/11	PCB27670.D
Level 4	IC 580-63352/12	PCB27671.D
Level 5	IC 580-63352/13	PCB27672.D
Level 6	IC 580-63352/14	PCB27673.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	Ave	224469 23917927	583303	1239689	2527604	13459707	10.0 1000	20.0	50.0	100	500
PCB-1221 Peak 2	Lin1	271430 15688064	455912	995090	1712752	7129226	10.0 1000	20.0	50.0	100	500
PCB-1221 Peak 3	Ave	814921 61328265	1566109	3415301	6880415	33588678	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 1	Ave	1908998 125949628	3185962	6421628	12429201	64942527	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 2	Ave	1487321 130952393	2645099	5828852	11583423	56273286	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 3	Ave	2434674 200145569	3914549	8865219	18153943	92189943	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 4	Ave	1281696 99424937	2292363	5303926	10187651	53533323	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 5	Ave	2143751 164807681	3676121	7921427	15568259	81257637	10.0 1000	20.0	50.0	100	500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-XLB ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 12:45 Calibration End Date: 05/11/2010 14:02 Calibration ID: 4881

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/9	PCB27668.D
Level 2	IC 580-63352/10	PCB27669.D
Level 3	IC 580-63352/11	PCB27670.D
Level 4	IC 580-63352/12	PCB27671.D
Level 5	IC 580-63352/13	PCB27672.D
Level 6	IC 580-63352/14	PCB27673.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1221 Peak 1	3.832	3.830	3.832	3.831	3.831	3.832					3.802 - 3.862	3.831
PCB-1221 Peak 2	3.918	3.918	3.919	3.919	3.920	3.920					3.890 - 3.950	3.919
PCB-1221 Peak 3	3.996	3.994	3.996	3.995	3.996	3.996					3.966 - 4.026	3.996
PCB-1254 Peak 1	5.805	5.802	5.803	5.803	5.804	5.805					5.775 - 5.835	5.804
PCB-1254 Peak 2	6.118	6.117	6.117	6.118	6.117	6.118					6.088 - 6.148	6.118
PCB-1254 Peak 3	6.372	6.370	6.371	6.371	6.371	6.372					6.342 - 6.402	6.371
PCB-1254 Peak 4	6.606	6.604	6.602	6.596	6.596	6.597					6.567 - 6.627	6.600
PCB-1254 Peak 5	6.729	6.728	6.729	6.728	6.729	6.730					6.700 - 6.760	6.729

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-XLB ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 12:45 Calibration End Date: 05/11/2010 14:02 Calibration ID: 4881

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/9	PCB27668.D
Level 2	IC 580-63352/10	PCB27669.D
Level 3	IC 580-63352/11	PCB27670.D
Level 4	IC 580-63352/12	PCB27671.D
Level 5	IC 580-63352/13	PCB27672.D
Level 6	IC 580-63352/14	PCB27673.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1221 Peak 1	34247 39409	35678 36665	37725	37166	Ave		36815			4.8			20.0			
PCB-1221 Peak 2	37154 25330	32649 22386	29443	26227	Ave		28865			19.0			20.0			
PCB-1221 Peak 3	132035 96813	120015 87052	102448	93202	Ave		105261			16.0			20.0			
PCB-1254 Peak 1	228234 164469	228177 193946	218945	160829	Ave		199100			16.0			20.0			
PCB-1254 Peak 2	264893 217848	220395 207743	209972	193187	Ave		219006			11.0			20.0			
PCB-1254 Peak 3	164934 149194	182797 145157	158661	151704	Ave		158741			8.6			20.0			
PCB-1254 Peak 4	549415 119995	317755 110322	176993	125666	Lin1	4165683	106304							0.9950		0.9900
PCB-1254 Peak 5	224493 180799	186860 169391	162125	159488	Ave		180526			13.0			20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-XLB ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 12:45 Calibration End Date: 05/11/2010 14:02 Calibration ID: 4881

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/9	PCB27668.D
Level 2	IC 580-63352/10	PCB27669.D
Level 3	IC 580-63352/11	PCB27670.D
Level 4	IC 580-63352/12	PCB27671.D
Level 5	IC 580-63352/13	PCB27672.D
Level 6	IC 580-63352/14	PCB27673.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	Ave	342468 36665463	713569	1886246	3716607	19704501	10.0 1000	20.0	50.0	100	500
PCB-1221 Peak 2	Ave	371544 22386011	652987	1472126	2622671	12664871	10.0 1000	20.0	50.0	100	500
PCB-1221 Peak 3	Ave	1320354 87051534	2400295	5122408	9320233	48406586	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 1	Ave	2282338 193946298	4563536	10947250	16082892	82234421	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 2	Ave	2648927 207742842	4407907	10498580	19318673	108923836	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 3	Ave	1649343 145157417	3655946	7933062	15170411	74596795	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 4	Lin1	5494145 110322362	6355098	8849647	12566618	59997470	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 5	Ave	2244926 169390897	3737209	8106231	15948790	90399431	10.0 1000	20.0	50.0	100	500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-35MS ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 14:33 Calibration End Date: 05/11/2010 15:50 Calibration ID: 4884

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/16	PCB27675.D
Level 2	IC 580-63352/17	PCB27676.D
Level 3	IC 580-63352/18	PCB27677.D
Level 4	IC 580-63352/19	PCB27678.D
Level 5	IC 580-63352/20	PCB27679.D
Level 6	IC 580-63352/21	PCB27680.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1232 Peak 1	3.873	3.873	3.873	3.872	3.872	3.874					3.842 - 3.902	3.873
PCB-1232 Peak 2	4.422	4.421	4.421	4.421	4.420	4.421					4.391 - 4.451	4.421
PCB-1232 Peak 3	4.739	4.739	4.740	4.739	4.739	4.739					4.709 - 4.769	4.739
PCB-1232 Peak 4	4.863	4.862	4.864	4.863	4.863	4.863					4.833 - 4.893	4.863
PCB-1232 Peak 5	4.922	4.921	4.922	4.922	4.922	4.922					4.892 - 4.952	4.922
PCB-1262 Peak 1	6.322	6.322	6.323	6.323	6.322	6.322					6.293 - 6.353	6.322
PCB-1262 Peak 2	6.651	6.650	6.650	6.651	6.651	6.650					6.621 - 6.681	6.651
PCB-1262 Peak 3	6.873	6.873	6.873	6.873	6.873	6.873					6.843 - 6.903	6.873
PCB-1262 Peak 4	7.084	7.083	7.084	7.083	7.084	7.084					7.053 - 7.113	7.084
PCB-1262 Peak 5	7.368	7.367	7.367	7.368	7.367	7.368					7.338 - 7.398	7.368

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-35MS ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 14:33 Calibration End Date: 05/11/2010 15:50 Calibration ID: 4884

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/16	PCB27675.D
Level 2	IC 580-63352/17	PCB27676.D
Level 3	IC 580-63352/18	PCB27677.D
Level 4	IC 580-63352/19	PCB27678.D
Level 5	IC 580-63352/20	PCB27679.D
Level 6	IC 580-63352/21	PCB27680.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1232 Peak 1	60320 41770	56409 46292	50952	43836	Ave		49930			15.0		20.0				
PCB-1232 Peak 2	44534 27315	42736 29174	32581	26149	Lin1	183938	28138						0.9970		0.9900	
PCB-1232 Peak 3	42026 31399	40591 34705	39587	31536	Ave		36641			13.0		20.0				
PCB-1232 Peak 4	38560 25742	34718 30583	31493	25976	Ave		31179			16.0		20.0				
PCB-1232 Peak 5	28600 23232	29717 25875	27064	24143	Ave		26438			9.5		20.0				
PCB-1262 Peak 1	132251 108829	128939 124882	130642	109468	Ave		122502			8.7		20.0				
PCB-1262 Peak 2	162151 150399	171920 174569	175788	146263	Ave		163515			7.8		20.0				
PCB-1262 Peak 3	171649 139074	165133 169612	160909	135986	Ave		157060			9.9		20.0				
PCB-1262 Peak 4	306050 279941	310688 340140	316567	269063	Ave		303741			8.5		20.0				
PCB-1262 Peak 5	233482 197225	223199 239760	236649	198944	Ave		221543			8.6		20.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-35MS ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 14:33 Calibration End Date: 05/11/2010 15:50 Calibration ID: 4884

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/16	PCB27675.D
Level 2	IC 580-63352/17	PCB27676.D
Level 3	IC 580-63352/18	PCB27677.D
Level 4	IC 580-63352/19	PCB27678.D
Level 5	IC 580-63352/20	PCB27679.D
Level 6	IC 580-63352/21	PCB27680.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	Ave	603204 46291586	1128176	2547576	4383609	20885190	10.0 1000	20.0	50.0	100	500
PCB-1232 Peak 2	Lin1	445343 29174222	854716	1629073	2614908	13657580	10.0 1000	20.0	50.0	100	500
PCB-1232 Peak 3	Ave	420264 34704540	811814	1979339	3153579	15699575	10.0 1000	20.0	50.0	100	500
PCB-1232 Peak 4	Ave	385599 30583200	694359	1574646	2597563	12870890	10.0 1000	20.0	50.0	100	500
PCB-1232 Peak 5	Ave	285997 25874548	594332	1353190	2414343	11616067	10.0 1000	20.0	50.0	100	500
PCB-1262 Peak 1	Ave	1322510 124881616	2578777	6532123	10946846	54414390	10.0 1000	20.0	50.0	100	500
PCB-1262 Peak 2	Ave	1621514 174568704	3438409	8789375	14626306	75199648	10.0 1000	20.0	50.0	100	500
PCB-1262 Peak 3	Ave	1716493 169611724	3302654	8045445	13598614	69537029	10.0 1000	20.0	50.0	100	500
PCB-1262 Peak 4	Ave	3060501 340140327	6213754	15828343	26906326	139970291	10.0 1000	20.0	50.0	100	500
PCB-1262 Peak 5	Ave	2334823 239760024	4463985	11832428	19894380	98612464	10.0 1000	20.0	50.0	100	500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-XLB ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 14:33 Calibration End Date: 05/11/2010 15:50 Calibration ID: 4885

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/16	PCB27675.D
Level 2	IC 580-63352/17	PCB27676.D
Level 3	IC 580-63352/18	PCB27677.D
Level 4	IC 580-63352/19	PCB27678.D
Level 5	IC 580-63352/20	PCB27679.D
Level 6	IC 580-63352/21	PCB27680.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1232 Peak 1	3.995	3.995	3.995	3.995	3.995	3.996					3.965 - 4.025	3.995
PCB-1232 Peak 2	4.522	4.522	4.522	4.522	4.522	4.523					4.492 - 4.552	4.522
PCB-1232 Peak 3	4.867	4.865	4.867	4.866	4.866	4.867					4.836 - 4.896	4.866
PCB-1232 Peak 4	4.958	4.958	4.957	4.957	4.956	4.957					4.927 - 4.987	4.957
PCB-1232 Peak 5	5.064	5.063	5.064	5.064	5.064	5.064					5.034 - 5.094	5.064
PCB-1262 Peak 1	6.498	6.499	6.498	6.499	6.498	6.499					6.469 - 6.529	6.499
PCB-1262 Peak 2	6.801	6.801	6.801	6.801	6.801	6.801					6.771 - 6.831	6.801
PCB-1262 Peak 3	6.978	6.980	6.978	6.979	6.979	6.979					6.949 - 7.009	6.979
PCB-1262 Peak 4	7.235	7.236	7.234	7.235	7.235	7.236					7.205 - 7.265	7.235
PCB-1262 Peak 5	7.451	7.451	7.450	7.450	7.451	7.451					7.420 - 7.480	7.451

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-XLB ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 14:33 Calibration End Date: 05/11/2010 15:50 Calibration ID: 4885

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/16	PCB27675.D
Level 2	IC 580-63352/17	PCB27676.D
Level 3	IC 580-63352/18	PCB27677.D
Level 4	IC 580-63352/19	PCB27678.D
Level 5	IC 580-63352/20	PCB27679.D
Level 6	IC 580-63352/21	PCB27680.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1232 Peak 1	86553 60690	87604 67085	78035	62737	Ave		73784			16.0			20.0			
PCB-1232 Peak 2	102645 39286	76291 41518	64602	41049	Lin1	690996	39823							0.9950		0.9900
PCB-1232 Peak 3	54911 43513	54326 48647	51990	43703	Ave		49515			10.0			20.0			
PCB-1232 Peak 4	52103 35436	47361 40288	46900	35236	Ave		42887			16.0			20.0			
PCB-1232 Peak 5	48547 32203	44654 33955	39181	32799	Ave		38557			18.0			20.0			
PCB-1262 Peak 1	283072 170322	245698 201743	217613	173821	Ave		215378			20.0			20.0			
PCB-1262 Peak 2	223794 193550	236927 225200	227030	189864	Ave		216061			9.0			20.0			
PCB-1262 Peak 3	183549 175148	198908 204829	192570	163805	Ave		186468			8.2			20.0			
PCB-1262 Peak 4	442352 379961	462263 474520	441084	367757	Ave		427989			10.0			20.0			
PCB-1262 Peak 5	254576 219024	257532 266121	252100	211745	Ave		243516			9.2			20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-XLB ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 14:33 Calibration End Date: 05/11/2010 15:50 Calibration ID: 4885

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/16	PCB27675.D
Level 2	IC 580-63352/17	PCB27676.D
Level 3	IC 580-63352/18	PCB27677.D
Level 4	IC 580-63352/19	PCB27678.D
Level 5	IC 580-63352/20	PCB27679.D
Level 6	IC 580-63352/21	PCB27680.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	Ave	865526 67085246	1752073	3901762	6273703	30345054	10.0 1000	20.0	50.0	100	500
PCB-1232 Peak 2	Lin1	1026446 41518445	1525811	3230113	4104925	19643208	10.0 1000	20.0	50.0	100	500
PCB-1232 Peak 3	Ave	549105 48647044	1086528	2599480	4370266	21756677	10.0 1000	20.0	50.0	100	500
PCB-1232 Peak 4	Ave	521033 40288328	947215	2344985	3523610	17717949	10.0 1000	20.0	50.0	100	500
PCB-1232 Peak 5	Ave	485474 33955296	893087	1959054	3279935	16101446	10.0 1000	20.0	50.0	100	500
PCB-1262 Peak 1	Ave	2830720 201743328	4913960	10880654	17382123	85161038	10.0 1000	20.0	50.0	100	500
PCB-1262 Peak 2	Ave	2237939 225199740	4738539	11351480	18986398	96774855	10.0 1000	20.0	50.0	100	500
PCB-1262 Peak 3	Ave	1835488 204829413	3978160	9628518	16380485	87573839	10.0 1000	20.0	50.0	100	500
PCB-1262 Peak 4	Ave	4423522 474520217	9245254	22054188	36775654	189980605	10.0 1000	20.0	50.0	100	500
PCB-1262 Peak 5	Ave	2545757 266121098	5150636	12604988	21174480	109512012	10.0 1000	20.0	50.0	100	500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-35MS ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 16:21 Calibration End Date: 05/11/2010 17:38 Calibration ID: 4892

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/23	PCB27682.D
Level 2	IC 580-63352/24	PCB27683.D
Level 3	IC 580-63352/25	PCB27684.D
Level 4	IC 580-63352/26	PCB27685.D
Level 5	IC 580-63352/27	PCB27686.D
Level 6	IC 580-63352/28	PCB27687.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1242 Peak 1	4.421	4.420	4.420	4.420	4.420	4.420					4.390 - 4.450	4.420
PCB-1242 Peak 2	4.862	4.863	4.863	4.863	4.863	4.863					4.833 - 4.893	4.863
PCB-1242 Peak 3	5.135	5.135	5.135	5.135	5.135	5.134					5.104 - 5.164	5.135
PCB-1242 Peak 4	5.281	5.281	5.281	5.281	5.281	5.281					5.251 - 5.311	5.281
PCB-1242 Peak 5	5.491	5.491	5.491	5.490	5.490	5.490					5.460 - 5.520	5.491

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-35MS ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 16:21 Calibration End Date: 05/11/2010 17:38 Calibration ID: 4892

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/23	PCB27682.D
Level 2	IC 580-63352/24	PCB27683.D
Level 3	IC 580-63352/25	PCB27684.D
Level 4	IC 580-63352/26	PCB27685.D
Level 5	IC 580-63352/27	PCB27686.D
Level 6	IC 580-63352/28	PCB27687.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1242 Peak 1	82284 53737	63733 52655	62230	51461	Ave		61017			19.0			20.0			
PCB-1242 Peak 2	64479 53898	59674 54611	55752	49492	Ave		56317			9.2			20.0			
PCB-1242 Peak 3	63429 56086	61088 55559	58502	51446	Ave		57685			7.4			20.0			
PCB-1242 Peak 4	43539 47254	46566 47698	47681	41922	Ave		45777			5.4			20.0			
PCB-1242 Peak 5	73825 63591	67731 63518	62140	57100	Ave		64651			8.7			20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-35MS ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 16:21 Calibration End Date: 05/11/2010 17:38 Calibration ID: 4892

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/23	PCB27682.D
Level 2	IC 580-63352/24	PCB27683.D
Level 3	IC 580-63352/25	PCB27684.D
Level 4	IC 580-63352/26	PCB27685.D
Level 5	IC 580-63352/27	PCB27686.D
Level 6	IC 580-63352/28	PCB27687.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	Ave	822839 52654897	1274664	3111498	5146128	26868609	10.0 1000	20.0	50.0	100	500
PCB-1242 Peak 2	Ave	644785 54610542	1193473	2787596	4949210	26948905	10.0 1000	20.0	50.0	100	500
PCB-1242 Peak 3	Ave	634291 55559181	1221768	2925123	5144590	28043162	10.0 1000	20.0	50.0	100	500
PCB-1242 Peak 4	Ave	435391 47698171	931323	2384065	4192151	23626904	10.0 1000	20.0	50.0	100	500
PCB-1242 Peak 5	Ave	738248 63518176	1354626	3107021	5709985	31795726	10.0 1000	20.0	50.0	100	500

Curve Type Legend:

Ave = Average

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-XLB ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 16:21 Calibration End Date: 05/11/2010 17:38 Calibration ID: 4893

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/23	PCB27682.D
Level 2	IC 580-63352/24	PCB27683.D
Level 3	IC 580-63352/25	PCB27684.D
Level 4	IC 580-63352/26	PCB27685.D
Level 5	IC 580-63352/27	PCB27686.D
Level 6	IC 580-63352/28	PCB27687.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1242 Peak 1	4.522	4.523	4.521	4.523	4.522	4.522					4.492 - 4.552	4.522
PCB-1242 Peak 2	4.866	4.866	4.866	4.867	4.866	4.866					4.836 - 4.896	4.866
PCB-1242 Peak 3	4.958	4.958	4.957	4.957	4.957	4.956					4.928 - 4.988	4.957
PCB-1242 Peak 4	5.063	5.064	5.063	5.064	5.064	5.063					5.033 - 5.093	5.064
PCB-1242 Peak 5	5.651	5.652	5.651	5.651	5.651	5.651					5.621 - 5.681	5.651

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-XLB ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 16:21 Calibration End Date: 05/11/2010 17:38 Calibration ID: 4893

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/23	PCB27682.D
Level 2	IC 580-63352/24	PCB27683.D
Level 3	IC 580-63352/25	PCB27684.D
Level 4	IC 580-63352/26	PCB27685.D
Level 5	IC 580-63352/27	PCB27686.D
Level 6	IC 580-63352/28	PCB27687.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1242 Peak 1	136105 78455	112238 74371	111270	76055	Lin1	760494	74887							0.9960		0.9900
PCB-1242 Peak 2	95859 91010	99061 87822	94061	83754	Ave		91928			6.1		20.0				
PCB-1242 Peak 3	101236 74084	81227 71560	74085	67486	Ave		78279			15.0		20.0				
PCB-1242 Peak 4	93852 55776	66171 53746	60537	52835	Lin1	331798	53700							0.9990		0.9900
PCB-1242 Peak 5	111211 81481	90018 82022	74104	72820	Ave		85276			17.0		20.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-XLB ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 16:21 Calibration End Date: 05/11/2010 17:38 Calibration ID: 4893

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/23	PCB27682.D
Level 2	IC 580-63352/24	PCB27683.D
Level 3	IC 580-63352/25	PCB27684.D
Level 4	IC 580-63352/26	PCB27685.D
Level 5	IC 580-63352/27	PCB27686.D
Level 6	IC 580-63352/28	PCB27687.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	Lin1	1361053 74371331	2244753	5563483	7605480	39227256	10.0 1000	20.0	50.0	100	500
PCB-1242 Peak 2	Ave	958587 87821545	1981216	4703048	8375379	45505213	10.0 1000	20.0	50.0	100	500
PCB-1242 Peak 3	Ave	1012355 71559920	1624534	3704228	6748586	37042192	10.0 1000	20.0	50.0	100	500
PCB-1242 Peak 4	Lin1	938519 53745980	1323423	3026845	5283534	27887954	10.0 1000	20.0	50.0	100	500
PCB-1242 Peak 5	Ave	1112112 82022295	1800367	3705217	7281964	40740416	10.0 1000	20.0	50.0	100	500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-35MS ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 18:09 Calibration End Date: 05/11/2010 19:26 Calibration ID: 4896

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/30	PCB27689.D
Level 2	IC 580-63352/31	PCB27690.D
Level 3	IC 580-63352/32	PCB27691.D
Level 4	IC 580-63352/33	PCB27692.D
Level 5	IC 580-63352/34	PCB27693.D
Level 6	IC 580-63352/35	PCB27694.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1248 Peak 1	4.962	4.921	4.922	4.921	4.922	4.922					4.891 - 4.951	4.928
PCB-1248 Peak 2	4.962	4.960	4.960	4.961	4.961	4.962					4.930 - 4.990	4.961
PCB-1248 Peak 3	5.134	5.135	5.134	5.134	5.135	5.136					5.106 - 5.166	5.135
PCB-1248 Peak 4	5.281	5.281	5.280	5.280	5.281	5.282					5.251 - 5.311	5.281
PCB-1248 Peak 5	5.490	5.490	5.491	5.490	5.491	5.491					5.460 - 5.520	5.491
PCB-1268 Peak 1	7.317	7.319	7.317	7.316	7.317	7.318					7.288 - 7.348	7.317
PCB-1268 Peak 2	7.368	7.369	7.368	7.368	7.369	7.369					7.339 - 7.399	7.369
PCB-1268 Peak 3	7.532	7.532	7.531	7.531	7.532	7.532					7.502 - 7.562	7.532
PCB-1268 Peak 4	7.763	7.762	7.763	7.762	7.762	7.763					7.733 - 7.793	7.763
PCB-1268 Peak 5	7.986	7.985	7.985	7.985	7.986	7.987					7.957 - 8.017	7.986

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-35MS ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 18:09 Calibration End Date: 05/11/2010 19:26 Calibration ID: 4896

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/30	PCB27689.D
Level 2	IC 580-63352/31	PCB27690.D
Level 3	IC 580-63352/32	PCB27691.D
Level 4	IC 580-63352/33	PCB27692.D
Level 5	IC 580-63352/34	PCB27693.D
Level 6	IC 580-63352/35	PCB27694.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1248 Peak 1	105278 75220	86125 77111	83102	72083	Ave		83153			14.0		20.0				
PCB-1248 Peak 2	105278 66088	73942 69845	75105	67410	Ave		76278			19.0		20.0				
PCB-1248 Peak 3	122995 88885	99545 94233	98745	85821	Ave		98371			13.0		20.0				
PCB-1248 Peak 4	67956 64190	65747 68923	68982	60101	Ave		65983			5.2		20.0				
PCB-1248 Peak 5	156639 126455	135061 134179	132458	117353	Ave		133691			9.7		20.0				
PCB-1268 Peak 1	521817 343344	431210 367721	363896	314350	Ave		390390			19.0		20.0				
PCB-1268 Peak 2	385747 316290	332009 339237	329768	284183	Ave		331206			10.0		20.0				
PCB-1268 Peak 3	304125 264663	273776 286394	274766	238366	Ave		273682			8.0		20.0				
PCB-1268 Peak 4	131284 105251	112072 111855	115684	96482	Ave		112105			10.0		20.0				
PCB-1268 Peak 5	920870 822704	826929 901954	845986	731892	Ave		841723			8.0		20.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-35MS ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 18:09 Calibration End Date: 05/11/2010 19:26 Calibration ID: 4896

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/30	PCB27689.D
Level 2	IC 580-63352/31	PCB27690.D
Level 3	IC 580-63352/32	PCB27691.D
Level 4	IC 580-63352/33	PCB27692.D
Level 5	IC 580-63352/34	PCB27693.D
Level 6	IC 580-63352/35	PCB27694.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	Ave	1052779 77110985	1722491	4155075	7208289	37610110	10.0 1000	20.0	50.0	100	500
PCB-1248 Peak 2	Ave	1052779 69845127	1478832	3755268	6741023	33044174	10.0 1000	20.0	50.0	100	500
PCB-1248 Peak 3	Ave	1229951 94232791	1990903	4937252	8582088	44442381	10.0 1000	20.0	50.0	100	500
PCB-1248 Peak 4	Ave	679564 68923219	1314935	3449097	6010064	32095240	10.0 1000	20.0	50.0	100	500
PCB-1248 Peak 5	Ave	1566385 134179132	2701227	6622917	11735322	63227526	10.0 1000	20.0	50.0	100	500
PCB-1268 Peak 1	Ave	5218171 367720715	8624200	18194802	31434996	171672108	10.0 1000	20.0	50.0	100	500
PCB-1268 Peak 2	Ave	3857470 339236746	6640188	16488398	28418252	158145246	10.0 1000	20.0	50.0	100	500
PCB-1268 Peak 3	Ave	3041247 286393801	5475528	13738287	23836604	132331742	10.0 1000	20.0	50.0	100	500
PCB-1268 Peak 4	Ave	1312842 111855015	2241439	5784219	9648201	52625318	10.0 1000	20.0	50.0	100	500
PCB-1268 Peak 5	Ave	9208697 901953895	16538587	42299324	73189158	411352211	10.0 1000	20.0	50.0	100	500

Curve Type Legend:

Ave = Average

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-XLB ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 18:09 Calibration End Date: 05/11/2010 19:26 Calibration ID: 4897

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/30	PCB27689.D
Level 2	IC 580-63352/31	PCB27690.D
Level 3	IC 580-63352/32	PCB27691.D
Level 4	IC 580-63352/33	PCB27692.D
Level 5	IC 580-63352/34	PCB27693.D
Level 6	IC 580-63352/35	PCB27694.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1248 Peak 1	4.956	4.955	4.956	4.955	4.955	4.956					4.926 - 4.986	4.956
PCB-1248 Peak 2	5.064	5.063	5.063	5.063	5.064	5.064					5.034 - 5.094	5.064
PCB-1248 Peak 3	5.244	5.244	5.244	5.244	5.244	5.245					5.215 - 5.275	5.244
PCB-1248 Peak 4	5.593	5.593	5.593	5.593	5.593	5.594					5.564 - 5.624	5.593
PCB-1248 Peak 5	5.651	5.651	5.651	5.651	5.651	5.652					5.622 - 5.682	5.651
PCB-1268 Peak 1	7.450	7.450	7.450	7.450	7.450	7.450					7.420 - 7.480	7.450
PCB-1268 Peak 2	7.511	7.510	7.510	7.511	7.511	7.511					7.481 - 7.541	7.511
PCB-1268 Peak 3	7.647	7.646	7.646	7.647	7.647	7.647					7.617 - 7.677	7.647
PCB-1268 Peak 4	7.898	7.898	7.899	7.898	7.899	7.899					7.869 - 7.929	7.899
PCB-1268 Peak 5	8.128	8.128	8.129	8.128	8.129	8.130					8.100 - 8.160	8.129

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-XLB ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 18:09 Calibration End Date: 05/11/2010 19:26 Calibration ID: 4897

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/30	PCB27689.D
Level 2	IC 580-63352/31	PCB27690.D
Level 3	IC 580-63352/32	PCB27691.D
Level 4	IC 580-63352/33	PCB27692.D
Level 5	IC 580-63352/34	PCB27693.D
Level 6	IC 580-63352/35	PCB27694.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1248 Peak 1	84063 51028	54809 50355	54331	47443	Lin1	232121	49925							0.9990		0.9900
PCB-1248 Peak 2	153827 103897	119246 106295	117286	102340	Ave		117148			16.0			20.0			
PCB-1248 Peak 3	172958 130669	137094 129273	139547	121917	Ave		138576			13.0			20.0			
PCB-1248 Peak 4	170233 109245	145938 113254	127523	108241	Ave		129072			19.0			20.0			
PCB-1248 Peak 5	174063 132433	159062 143830	149705	129671	Ave		148127			11.0			20.0			
PCB-1268 Peak 1	523899 436766	470543 480432	465957	398391	Ave		462665			9.1			20.0			
PCB-1268 Peak 2	452656 389378	411389 423542	415410	355060	Ave		407906			8.1			20.0			
PCB-1268 Peak 3	389774 333687	368124 364225	354219	303113	Ave		352190			8.6			20.0			
PCB-1268 Peak 4	149436 130885	152147 140006	143102	122152	Ave		139621			8.1			20.0			
PCB-1268 Peak 5	1212724 1069730	1095818 1180546	1100200	943364	Ave		1100397			8.6			20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 63352

SDG No.: _____

Instrument ID: TAC034 GC Column: DB-XLB ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 18:09 Calibration End Date: 05/11/2010 19:26 Calibration ID: 4897

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63352/30	PCB27689.D
Level 2	IC 580-63352/31	PCB27690.D
Level 3	IC 580-63352/32	PCB27691.D
Level 4	IC 580-63352/33	PCB27692.D
Level 5	IC 580-63352/34	PCB27693.D
Level 6	IC 580-63352/35	PCB27694.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	Lin1	840632 50355141	1096173	2716547	4744254	25514116	10.0 1000	20.0	50.0	100	500
PCB-1248 Peak 2	Ave	1538265 106294778	2384924	5864289	10233980	51948712	10.0 1000	20.0	50.0	100	500
PCB-1248 Peak 3	Ave	1729578 129273185	2741875	6977333	12191710	65334431	10.0 1000	20.0	50.0	100	500
PCB-1248 Peak 4	Ave	1702329 113254116	2918750	6376129	10824077	54622401	10.0 1000	20.0	50.0	100	500
PCB-1248 Peak 5	Ave	1740632 143829943	3181249	7485240	12967063	66216674	10.0 1000	20.0	50.0	100	500
PCB-1268 Peak 1	Ave	5238986 480432048	9410869	23297832	39839096	218383159	10.0 1000	20.0	50.0	100	500
PCB-1268 Peak 2	Ave	4526564 423542006	8227782	20770486	35505988	194689031	10.0 1000	20.0	50.0	100	500
PCB-1268 Peak 3	Ave	3897743 364225436	7362480	17710969	30311305	166843359	10.0 1000	20.0	50.0	100	500
PCB-1268 Peak 4	Ave	1494362 140006216	3042947	7155076	12215249	65442416	10.0 1000	20.0	50.0	100	500
PCB-1268 Peak 5	Ave	12127242 1180546204	21916368	55009976	94336439	534865012	10.0 1000	20.0	50.0	100	500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-64687/2 Calibration Date: 06/01/2010 08:19
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-35MS ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27847.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		67202		94.2	100	-5.8	20.0
PCB-1016 Peak 2	Ave	90584	77408		85.5	100	-14.5	20.0
PCB-1016 Peak 3	Ave	71778	64170		89.4	100	-10.6	20.0
PCB-1016 Peak 4	Ave	57968	54343		93.7	100	-6.3	20.0
PCB-1016 Peak 5	Ave	72492	66905		92.3	100	-7.7	20.0
PCB-1260 Peak 1	Ave	138391	126496		91.4	100	-8.6	20.0
PCB-1260 Peak 2	Ave	166792	147552		88.5	100	-11.5	20.0
PCB-1260 Peak 3	Lin1		144614		94.8	100	-5.2	20.0
PCB-1260 Peak 4	Ave	258692	204767		79.2	100	-20.8*	20.0
PCB-1260 Peak 5	Ave	191858	164601		85.8	100	-14.2	20.0
Tetrachloro-m-xylene	Ave	3168468	3014103		9.51	10.0	-4.9	20.0
DCB Decachlorobiphenyl	Ave	2315605	2206249		9.53	10.0	-4.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-64687/2 Calibration Date: 06/01/2010 08:19
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-35MS ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27847.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	4.42	4.39	4.45
PCB-1016 Peak 2	4.74	4.71	4.77
PCB-1016 Peak 3	4.86	4.83	4.89
PCB-1016 Peak 4	4.92	4.89	4.95
PCB-1016 Peak 5	5.13	5.10	5.16
PCB-1260 Peak 1	6.14	6.11	6.17
PCB-1260 Peak 2	6.32	6.29	6.35
PCB-1260 Peak 3	6.45	6.42	6.48
PCB-1260 Peak 4	7.08	7.05	7.11
PCB-1260 Peak 5	7.37	7.34	7.40
Tetrachloro-m-xylene	3.45	3.42	3.48
DCB Decachlorobiphenyl	8.18	8.15	8.21

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-64687/2 Calibration Date: 06/01/2010 08:19
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-XLB ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27847.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		108862		105	100	4.5	20.0
PCB-1016 Peak 2	Ave	125327	119520		95.4	100	-4.6	20.0
PCB-1016 Peak 3	Ave	107276	97454		90.8	100	-9.2	20.0
PCB-1016 Peak 4	Ave	80616	80615		100	100	0.0	20.0
PCB-1016 Peak 5	Ave	98815	100067		101	100	1.3	20.0
PCB-1260 Peak 1	Ave	191014	195826		103	100	2.5	20.0
PCB-1260 Peak 2	Lin1		144598		100	100	0.0	20.0
PCB-1260 Peak 3	Ave	251054	265689		106	100	5.8	20.0
PCB-1260 Peak 4	Ave	336436	340263		101	100	1.1	20.0
PCB-1260 Peak 5	Ave	194722	202107		104	100	3.8	20.0
Tetrachloro-m-xylene	Ave	4420247	4667125		10.6	10.0	5.6	20.0
DCB Decachlorobiphenyl	Ave	3011682	3178566		10.6	10.0	5.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-64687/2 Calibration Date: 06/01/2010 08:19
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-XLB ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27847.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	4.52	4.49	4.55
PCB-1016 Peak 2	4.87	4.84	4.90
PCB-1016 Peak 3	4.96	4.93	4.99
PCB-1016 Peak 4	5.06	5.03	5.09
PCB-1016 Peak 5	5.24	5.21	5.27
PCB-1260 Peak 1	6.27	6.24	6.30
PCB-1260 Peak 2	6.60	6.57	6.63
PCB-1260 Peak 3	6.73	6.70	6.76
PCB-1260 Peak 4	7.23	7.20	7.26
PCB-1260 Peak 5	7.45	7.42	7.48
Tetrachloro-m-xylene	3.60	3.57	3.63
DCB Decachlorobiphenyl	8.31	8.28	8.34

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64687/3 Calibration Date: 06/01/2010 08:55
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 12:45
 GC Column: DB-35MS ID: 0.32 (mm) Calib End Date: 05/11/2010 14:02
 Lab File ID: PCB27848.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	25420	27452		108	100	8.0	20.0
PCB-1221 Peak 2	Lin1		17876		109	100	8.8	20.0
PCB-1221 Peak 3	Ave	70902	63842		90.0	100	-10.0	20.0
PCB-1254 Peak 1	Ave	143126	139197		97.3	100	-2.7	20.0
PCB-1254 Peak 2	Ave	126150	131420		104	100	4.2	20.0
PCB-1254 Peak 3	Ave	197094	194543		98.7	100	-1.3	20.0
PCB-1254 Peak 4	Ave	109539	106040		96.8	100	-3.2	20.0
PCB-1254 Peak 5	Ave	173269	176907		102	100	2.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64687/3 Calibration Date: 06/01/2010 08:55
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 12:45
 GC Column: DB-35MS ID: 0.32 (mm) Calib End Date: 05/11/2010 14:02
 Lab File ID: PCB27848.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1221 Peak 1	3.70	3.67	3.73
PCB-1221 Peak 2	3.80	3.77	3.83
PCB-1221 Peak 3	3.88	3.85	3.91
PCB-1254 Peak 1	5.50	5.47	5.53
PCB-1254 Peak 2	5.65	5.62	5.68
PCB-1254 Peak 3	6.02	5.99	6.05
PCB-1254 Peak 4	6.24	6.21	6.27
PCB-1254 Peak 5	6.62	6.59	6.65

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64687/3 Calibration Date: 06/01/2010 08:55
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 12:45
 GC Column: DB-XLB ID: 0.32 (mm) Calib End Date: 05/11/2010 14:02
 Lab File ID: PCB27848.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	36815	42007		114	100	14.1	20.0
PCB-1221 Peak 2	Ave	28865	29149		101	100	1.0	20.0
PCB-1221 Peak 3	Ave	105261	101661		96.6	100	-3.4	20.0
PCB-1254 Peak 1	Ave	199100	219623		110	100	10.3	20.0
PCB-1254 Peak 2	Ave	219006	254138		116	100	16.0	20.0
PCB-1254 Peak 3	Ave	158741	176943		111	100	11.5	20.0
PCB-1254 Peak 4	Lin1		151508		103	100	3.3	20.0
PCB-1254 Peak 5	Ave	180526	209003		116	100	15.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64687/3 Calibration Date: 06/01/2010 08:55
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 12:45
 GC Column: DB-XLB ID: 0.32 (mm) Calib End Date: 05/11/2010 14:02
 Lab File ID: PCB27848.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1221 Peak 1	3.83	3.80	3.86
PCB-1221 Peak 2	3.92	3.89	3.95
PCB-1221 Peak 3	4.00	3.97	4.03
PCB-1254 Peak 1	5.80	5.77	5.83
PCB-1254 Peak 2	6.12	6.09	6.15
PCB-1254 Peak 3	6.37	6.34	6.40
PCB-1254 Peak 4	6.60	6.57	6.63
PCB-1254 Peak 5	6.73	6.70	6.76

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64687/14 Calibration Date: 06/01/2010 11:55
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-35MS ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27859.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		69735		98.0	100	-2.0	20.0
PCB-1016 Peak 2	Ave	90584	82479		91.1	100	-8.9	20.0
PCB-1016 Peak 3	Ave	71778	67166		93.6	100	-6.4	20.0
PCB-1016 Peak 4	Ave	57968	55354		95.5	100	-4.5	20.0
PCB-1016 Peak 5	Ave	72492	67774		93.5	100	-6.5	20.0
PCB-1260 Peak 1	Ave	138391	125251		90.5	100	-9.5	20.0
PCB-1260 Peak 2	Ave	166792	144229		86.5	100	-13.5	20.0
PCB-1260 Peak 3	Lin1		143665		94.2	100	-5.8	20.0
PCB-1260 Peak 4	Ave	258692	223064		86.2	100	-13.8	20.0
PCB-1260 Peak 5	Ave	191858	166444		86.8	100	-13.2	20.0
Tetrachloro-m-xylene	Ave	3168468	2970636		9.38	10.0	-6.2	20.0
DCB Decachlorobiphenyl	Ave	2315605	2275141		9.83	10.0	-1.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64687/14 Calibration Date: 06/01/2010 11:55
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-35MS ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27859.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	4.42	4.39	4.45
PCB-1016 Peak 2	4.74	4.71	4.77
PCB-1016 Peak 3	4.86	4.83	4.89
PCB-1016 Peak 4	4.92	4.89	4.95
PCB-1016 Peak 5	5.14	5.11	5.17
PCB-1260 Peak 1	6.14	6.11	6.17
PCB-1260 Peak 2	6.32	6.29	6.35
PCB-1260 Peak 3	6.45	6.42	6.48
PCB-1260 Peak 4	7.08	7.05	7.11
PCB-1260 Peak 5	7.37	7.34	7.40
Tetrachloro-m-xylene	3.45	3.42	3.48
DCB Decachlorobiphenyl	8.18	8.15	8.21

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64687/14 Calibration Date: 06/01/2010 11:55
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-XLB ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27859.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		106184		102	100	1.7	20.0
PCB-1016 Peak 2	Ave	125327	117539		93.8	100	-6.2	20.0
PCB-1016 Peak 3	Ave	107276	97414		90.8	100	-9.2	20.0
PCB-1016 Peak 4	Ave	80616	73921		91.7	100	-8.3	20.0
PCB-1016 Peak 5	Ave	98815	87120		88.2	100	-11.8	20.0
PCB-1260 Peak 1	Ave	191014	188068		98.5	100	-1.5	20.0
PCB-1260 Peak 2	Lin1		154567		110	100	9.9	20.0
PCB-1260 Peak 3	Ave	251054	287550		115	100	14.5	20.0
PCB-1260 Peak 4	Ave	336436	334859		99.5	100	-0.5	20.0
PCB-1260 Peak 5	Ave	194722	197121		101	100	1.2	20.0
Tetrachloro-m-xylene	Ave	4420247	4663409		10.6	10.0	5.5	20.0
DCB Decachlorobiphenyl	Ave	3011682	3704439		12.3	10.0	23.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64687/14 Calibration Date: 06/01/2010 11:55
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-XLB ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27859.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	4.52	4.49	4.55
PCB-1016 Peak 2	4.87	4.84	4.90
PCB-1016 Peak 3	4.96	4.93	4.99
PCB-1016 Peak 4	5.06	5.03	5.09
PCB-1016 Peak 5	5.24	5.21	5.27
PCB-1260 Peak 1	6.27	6.24	6.30
PCB-1260 Peak 2	6.60	6.57	6.63
PCB-1260 Peak 3	6.73	6.70	6.76
PCB-1260 Peak 4	7.24	7.21	7.27
PCB-1260 Peak 5	7.45	7.42	7.48
Tetrachloro-m-xylene	3.60	3.57	3.63
DCB Decachlorobiphenyl	8.31	8.28	8.34

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-65215/2 Calibration Date: 06/08/2010 11:18
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-35MS ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27893.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		70784		99.6	100	-0.4	20.0
PCB-1016 Peak 2	Ave	90584	78003		86.1	100	-13.9	20.0
PCB-1016 Peak 3	Ave	71778	66255		92.3	100	-7.7	20.0
PCB-1016 Peak 4	Ave	57968	53772		92.8	100	-7.2	20.0
PCB-1016 Peak 5	Ave	72492	67783		93.5	100	-6.5	20.0
PCB-1260 Peak 1	Ave	138391	132198		95.5	100	-4.5	20.0
PCB-1260 Peak 2	Ave	166792	150165		90.0	100	-10.0	20.0
PCB-1260 Peak 3	Lin1		152144		100	100	0.1	20.0
PCB-1260 Peak 4	Ave	258692	222147		85.9	100	-14.1	20.0
PCB-1260 Peak 5	Ave	191858	168652		87.9	100	-12.1	20.0
Tetrachloro-m-xylene	Ave	3168468	3195523		10.1	10.0	0.9	20.0
DCB Decachlorobiphenyl	Ave	2315605	2398921		10.4	10.0	3.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-65215/2 Calibration Date: 06/08/2010 11:18
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-35MS ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27893.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	4.42	4.39	4.45
PCB-1016 Peak 2	4.74	4.71	4.77
PCB-1016 Peak 3	4.86	4.83	4.89
PCB-1016 Peak 4	4.92	4.89	4.95
PCB-1016 Peak 5	5.14	5.11	5.17
PCB-1260 Peak 1	6.14	6.11	6.17
PCB-1260 Peak 2	6.32	6.29	6.35
PCB-1260 Peak 3	6.45	6.42	6.48
PCB-1260 Peak 4	7.08	7.05	7.11
PCB-1260 Peak 5	7.37	7.34	7.40
Tetrachloro-m-xylene	3.45	3.42	3.48
DCB Decachlorobiphenyl	8.18	8.15	8.21

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-65215/2 Calibration Date: 06/08/2010 11:18
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-XLB ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27893.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		102668		98.0	100	-2.0	20.0
PCB-1016 Peak 2	Ave	125327	110089		87.8	100	-12.2	20.0
PCB-1016 Peak 3	Ave	107276	90823		84.7	100	-15.3	20.0
PCB-1016 Peak 4	Ave	80616	74520		92.4	100	-7.6	20.0
PCB-1016 Peak 5	Ave	98815	96633		97.8	100	-2.2	20.0
PCB-1260 Peak 1	Ave	191014	188111		98.5	100	-1.5	20.0
PCB-1260 Peak 2	Lin1		150641		106	100	6.0	20.0
PCB-1260 Peak 3	Ave	251054	259979		104	100	3.6	20.0
PCB-1260 Peak 4	Ave	336436	322323		95.8	100	-4.2	20.0
PCB-1260 Peak 5	Ave	194722	201228		103	100	3.3	20.0
Tetrachloro-m-xylene	Ave	4420247	4536292		10.3	10.0	2.6	20.0
DCB Decachlorobiphenyl	Ave	3011682	3368817		11.2	10.0	11.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-65215/2 Calibration Date: 06/08/2010 11:18
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-XLB ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27893.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	4.52	4.49	4.55
PCB-1016 Peak 2	4.87	4.84	4.90
PCB-1016 Peak 3	4.95	4.92	4.98
PCB-1016 Peak 4	5.06	5.03	5.09
PCB-1016 Peak 5	5.24	5.21	5.27
PCB-1260 Peak 1	6.27	6.24	6.30
PCB-1260 Peak 2	6.60	6.57	6.63
PCB-1260 Peak 3	6.73	6.70	6.76
PCB-1260 Peak 4	7.23	7.20	7.26
PCB-1260 Peak 5	7.45	7.42	7.48
Tetrachloro-m-xylene	3.60	3.57	3.63
DCB Decachlorobiphenyl	8.31	8.28	8.34

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-65215/5 Calibration Date: 06/08/2010 12:32
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-35MS ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27896.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		71521		101	100	0.7	20.0
PCB-1016 Peak 2	Ave	90584	81442		89.9	100	-10.1	20.0
PCB-1016 Peak 3	Ave	71778	66970		93.3	100	-6.7	20.0
PCB-1016 Peak 4	Ave	57968	55999		96.6	100	-3.4	20.0
PCB-1016 Peak 5	Ave	72492	69923		96.5	100	-3.5	20.0
PCB-1260 Peak 1	Ave	138391	135408		97.8	100	-2.2	20.0
PCB-1260 Peak 2	Ave	166792	160354		96.1	100	-3.9	20.0
PCB-1260 Peak 3	Lin1		154668		102	100	1.8	20.0
PCB-1260 Peak 4	Ave	258692	245122		94.8	100	-5.2	20.0
PCB-1260 Peak 5	Ave	191858	180698		94.2	100	-5.8	20.0
Tetrachloro-m-xylene	Ave	3168468	3029923		9.56	10.0	-4.4	20.0
DCB Decachlorobiphenyl	Ave	2315605	2398564		10.4	10.0	3.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-65215/5 Calibration Date: 06/08/2010 12:32
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-35MS ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27896.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	4.42	4.39	4.45
PCB-1016 Peak 2	4.74	4.71	4.77
PCB-1016 Peak 3	4.86	4.83	4.89
PCB-1016 Peak 4	4.92	4.89	4.95
PCB-1016 Peak 5	5.14	5.11	5.17
PCB-1260 Peak 1	6.14	6.11	6.17
PCB-1260 Peak 2	6.32	6.29	6.35
PCB-1260 Peak 3	6.45	6.42	6.48
PCB-1260 Peak 4	7.08	7.05	7.11
PCB-1260 Peak 5	7.37	7.34	7.40
Tetrachloro-m-xylene	3.45	3.42	3.48
DCB Decachlorobiphenyl	8.18	8.15	8.21

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-65215/5 Calibration Date: 06/08/2010 12:32
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-XLB ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27896.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		105106		101	100	0.5	20.0
PCB-1016 Peak 2	Ave	125327	115054		91.8	100	-8.2	20.0
PCB-1016 Peak 3	Ave	107276	94759		88.3	100	-11.7	20.0
PCB-1016 Peak 4	Ave	80616	78849		97.8	100	-2.2	20.0
PCB-1016 Peak 5	Ave	98815	98577		99.8	100	-0.2	20.0
PCB-1260 Peak 1	Ave	191014	198809		104	100	4.1	20.0
PCB-1260 Peak 2	Lin1		159440		115	100	14.7	20.0
PCB-1260 Peak 3	Ave	251054	273264		109	100	8.8	20.0
PCB-1260 Peak 4	Ave	336436	371405		110	100	10.4	20.0
PCB-1260 Peak 5	Ave	194722	239969		123	100	23.2*	20.0
Tetrachloro-m-xylene	Ave	4420247	6990238		15.8	10.0	58.1*	20.0
DCB Decachlorobiphenyl	Ave	3011682	3289574		10.9	10.0	9.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-65215/5 Calibration Date: 06/08/2010 12:32
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-XLB ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27896.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	4.52	4.49	4.55
PCB-1016 Peak 2	4.87	4.84	4.90
PCB-1016 Peak 3	4.96	4.93	4.99
PCB-1016 Peak 4	5.06	5.03	5.09
PCB-1016 Peak 5	5.24	5.21	5.27
PCB-1260 Peak 1	6.27	6.24	6.30
PCB-1260 Peak 2	6.60	6.57	6.63
PCB-1260 Peak 3	6.73	6.70	6.76
PCB-1260 Peak 4	7.23	7.20	7.26
PCB-1260 Peak 5	7.45	7.42	7.48
Tetrachloro-m-xylene	3.60	3.57	3.63
DCB Decachlorobiphenyl	8.31	8.28	8.34

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-65215/8 Calibration Date: 06/08/2010 13:29
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-35MS ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27899.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		74211		105	100	4.7	20.0
PCB-1016 Peak 2	Ave	90584	87462		96.6	100	-3.4	20.0
PCB-1016 Peak 3	Ave	71778	71485		99.6	100	-0.4	20.0
PCB-1016 Peak 4	Ave	57968	58733		101	100	1.3	20.0
PCB-1016 Peak 5	Ave	72492	73325		101	100	1.2	20.0
PCB-1260 Peak 1	Ave	138391	139881		101	100	1.1	20.0
PCB-1260 Peak 2	Ave	166792	169579		102	100	1.7	20.0
PCB-1260 Peak 3	Lin1		156063		103	100	2.8	20.0
PCB-1260 Peak 4	Ave	258692	255913		98.9	100	-1.1	20.0
PCB-1260 Peak 5	Ave	191858	185750		96.8	100	-3.2	20.0
Tetrachloro-m-xylene	Ave	3168468	3113489		9.83	10.0	-1.7	20.0
DCB Decachlorobiphenyl	Ave	2315605	2519810		10.9	10.0	8.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-65215/8 Calibration Date: 06/08/2010 13:29
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-35MS ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27899.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	4.42	4.39	4.45
PCB-1016 Peak 2	4.74	4.71	4.77
PCB-1016 Peak 3	4.86	4.83	4.89
PCB-1016 Peak 4	4.92	4.89	4.95
PCB-1016 Peak 5	5.13	5.10	5.16
PCB-1260 Peak 1	6.14	6.11	6.17
PCB-1260 Peak 2	6.32	6.29	6.35
PCB-1260 Peak 3	6.45	6.42	6.48
PCB-1260 Peak 4	7.08	7.05	7.11
PCB-1260 Peak 5	7.37	7.34	7.40
Tetrachloro-m-xylene	3.45	3.42	3.48
DCB Decachlorobiphenyl	8.18	8.15	8.21

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-65215/8 Calibration Date: 06/08/2010 13:29
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-XLB ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27899.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		105444		101	100	0.9	20.0
PCB-1016 Peak 2	Ave	125327	117537		93.8	100	-6.2	20.0
PCB-1016 Peak 3	Ave	107276	97530		90.9	100	-9.1	20.0
PCB-1016 Peak 4	Ave	80616	76978		95.5	100	-4.5	20.0
PCB-1016 Peak 5	Ave	98815	79421		80.4	100	-19.6	20.0
PCB-1260 Peak 1	Ave	191014	203604		107	100	6.6	20.0
PCB-1260 Peak 2	Lin1		163285		119	100	18.5	20.0
PCB-1260 Peak 3	Ave	251054	250763		99.9	100	-0.1	20.0
PCB-1260 Peak 4	Ave	336436	370537		110	100	10.1	20.0
PCB-1260 Peak 5	Ave	194722	211173		108	100	8.4	20.0
Tetrachloro-m-xylene	Ave	4420247	4727806		10.7	10.0	7.0	20.0
DCB Decachlorobiphenyl	Ave	3011682	3387434		11.2	10.0	12.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-65215/8 Calibration Date: 06/08/2010 13:29
 Instrument ID: TAC034 Calib Start Date: 05/11/2010 10:17
 GC Column: DB-XLB ID: 0.32 (mm) Calib End Date: 05/11/2010 11:34
 Lab File ID: PCB27899.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	4.52	4.49	4.55
PCB-1016 Peak 2	4.87	4.84	4.90
PCB-1016 Peak 3	4.96	4.93	4.99
PCB-1016 Peak 4	5.06	5.03	5.09
PCB-1016 Peak 5	5.24	5.21	5.27
PCB-1260 Peak 1	6.27	6.24	6.30
PCB-1260 Peak 2	6.60	6.57	6.63
PCB-1260 Peak 3	6.73	6.70	6.76
PCB-1260 Peak 4	7.24	7.21	7.27
PCB-1260 Peak 5	7.45	7.42	7.48
Tetrachloro-m-xylene	3.60	3.57	3.63
DCB Decachlorobiphenyl	8.31	8.28	8.34

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-64456/1-A
 Matrix: Water Lab File ID: PCB27894.D
 Analysis Method: 8082 Date Collected: _____
 Extraction Method: 3520C Date Extracted: 05/26/2010 17:25
 Sample wt/vol: 1000 (mL) Date Analyzed: 06/08/2010 12:01
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: DB-XLB ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 65215 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.010	0.0045
11104-28-2	PCB-1221	ND		0.010	0.0062
11141-16-5	PCB-1232	ND		0.010	0.0041
53469-21-9	PCB-1242	ND		0.010	0.0041
12672-29-6	PCB-1248	ND		0.010	0.0071
11097-69-1	PCB-1254	ND		0.010	0.0044
11096-82-5	PCB-1260	ND		0.010	0.0039

CAS NO.	SURROGATE	%REC	LIMITS	Q
877-09-8	Tetrachloro-m-xylene	84	60-150	
2051-24-3	DCB Decachlorobiphenyl	88	40-135	

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: PIBLK 580-65215/1
 Matrix: Water Lab File ID: PCB27892.D
 Analysis Method: 8082 Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 06/08/2010 11:03
 Con. Extract Vol.: _____ Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: DB-35MS ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 65215 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.050	0.045
11104-28-2	PCB-1221	ND		0.050	0.062
11141-16-5	PCB-1232	ND		0.050	0.041
53469-21-9	PCB-1242	ND		0.050	0.041
12672-29-6	PCB-1248	ND		0.050	0.071
11097-69-1	PCB-1254	ND		0.050	0.044
11096-82-5	PCB-1260	ND		0.050	0.039

CAS NO.	SURROGATE	%REC	LIMITS	Q
877-09-8	Tetrachloro-m-xylene			
2051-24-3	DCB Decachlorobiphenyl			

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: PIBLK 580-65215/1
 Matrix: Water Lab File ID: PCB27892.D
 Analysis Method: 8082 Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 06/08/2010 11:03
 Con. Extract Vol.: _____ Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: DB-XLB ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 65215 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.050	0.045
11104-28-2	PCB-1221	ND		0.050	0.062
11141-16-5	PCB-1232	ND		0.050	0.041
53469-21-9	PCB-1242	ND		0.050	0.041
12672-29-6	PCB-1248	ND		0.050	0.071
11097-69-1	PCB-1254	ND		0.050	0.044
11096-82-5	PCB-1260	ND		0.050	0.039

CAS NO.	SURROGATE	%REC	LIMITS	Q
877-09-8	Tetrachloro-m-xylene			
2051-24-3	DCB Decachlorobiphenyl			

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: CCB 580-65215/6
 Matrix: Water Lab File ID: PCB27897.D
 Analysis Method: 8082 Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 06/08/2010 12:58
 Con. Extract Vol.: _____ Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: DB-35MS ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 65215 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.050	0.045
11104-28-2	PCB-1221	ND		0.050	0.062
11141-16-5	PCB-1232	ND		0.050	0.041
53469-21-9	PCB-1242	ND		0.050	0.041
12672-29-6	PCB-1248	ND		0.050	0.071
11097-69-1	PCB-1254	ND		0.050	0.044
11096-82-5	PCB-1260	ND		0.050	0.039

CAS NO.	SURROGATE	%REC	LIMITS	Q
877-09-8	Tetrachloro-m-xylene			
2051-24-3	DCB Decachlorobiphenyl			

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-64456/2-A
 Matrix: Water Lab File ID: PCB27898.D
 Analysis Method: 8082 Date Collected: _____
 Extraction Method: 3520C Date Extracted: 05/26/2010 17:25
 Sample wt/vol: 1000 (mL) Date Analyzed: 06/08/2010 13:14
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: DB-XLB ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 65215 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.0945		0.010	0.0045
11096-82-5	PCB-1260	0.118		0.010	0.0039

CAS NO.	SURROGATE	%REC	LIMITS	Q
877-09-8	Tetrachloro-m-xylene	97	60-150	
2051-24-3	DCB Decachlorobiphenyl	100	40-135	

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W MS Lab Sample ID: 580-19562-3 MS
 Matrix: Water Lab File ID: PCB27854.D
 Analysis Method: 8082 Date Collected: 05/24/2010 10:34
 Extraction Method: 3520C Date Extracted: 05/26/2010 17:25
 Sample wt/vol: 1060(mL) Date Analyzed: 06/01/2010 10:37
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: DB-35MS ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64687 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.0705		0.0094	0.0042
11104-28-2	PCB-1221	ND		0.0094	0.0058
11141-16-5	PCB-1232	ND		0.0094	0.0039
53469-21-9	PCB-1242	ND		0.0094	0.0039
12672-29-6	PCB-1248	ND		0.0094	0.0067
11097-69-1	PCB-1254	ND		0.0094	0.0042
11096-82-5	PCB-1260	0.0748		0.0094	0.0037

CAS NO.	SURROGATE	%REC	LIMITS	Q
877-09-8	Tetrachloro-m-xylene	99	60-150	
2051-24-3	DCB Decachlorobiphenyl	118	40-135	

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W MSD Lab Sample ID: 580-19562-3 MSD
 Matrix: Water Lab File ID: PCB27855.D
 Analysis Method: 8082 Date Collected: 05/24/2010 10:34
 Extraction Method: 3520C Date Extracted: 05/26/2010 17:25
 Sample wt/vol: 1060(mL) Date Analyzed: 06/01/2010 10:53
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: DB-35MS ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64687 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.0881		0.0094	0.0042
11104-28-2	PCB-1221	ND		0.0094	0.0058
11141-16-5	PCB-1232	ND		0.0094	0.0039
53469-21-9	PCB-1242	ND		0.0094	0.0039
12672-29-6	PCB-1248	ND		0.0094	0.0067
11097-69-1	PCB-1254	ND		0.0094	0.0042
11096-82-5	PCB-1260	0.0877		0.0094	0.0037

CAS NO.	SURROGATE	%REC	LIMITS	Q
877-09-8	Tetrachloro-m-xylene	100	60-150	
2051-24-3	DCB Decachlorobiphenyl	125	40-135	

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Instrument ID: TAC034 Start Date: 05/11/2010 10:17

Analysis Batch Number: 63352 End Date: 05/11/2010 19:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 580-63352/2		05/11/2010 10:17	1	PCB27661.D	DB-35MS 0.32 (mm)
IC 580-63352/2		05/11/2010 10:17	1	PCB27661.D	DB-XLB 0.32 (mm)
IC 580-63352/3		05/11/2010 10:32	1	PCB27662.D	DB-35MS 0.32 (mm)
IC 580-63352/3		05/11/2010 10:32	1	PCB27662.D	DB-XLB 0.32 (mm)
IC 580-63352/4		05/11/2010 10:48	1	PCB27663.D	DB-35MS 0.32 (mm)
IC 580-63352/4		05/11/2010 10:48	1	PCB27663.D	DB-XLB 0.32 (mm)
ICRT 580-63352/5		05/11/2010 11:04	1	PCB27664.D	DB-35MS 0.32 (mm)
ICRT 580-63352/5		05/11/2010 11:04	1	PCB27664.D	DB-XLB 0.32 (mm)
IC 580-63352/6		05/11/2010 11:19	1	PCB27665.D	DB-35MS 0.32 (mm)
IC 580-63352/6		05/11/2010 11:19	1	PCB27665.D	DB-XLB 0.32 (mm)
IC 580-63352/7		05/11/2010 11:34	1	PCB27666.D	DB-35MS 0.32 (mm)
IC 580-63352/7		05/11/2010 11:34	1	PCB27666.D	DB-XLB 0.32 (mm)
ICV 580-63352/8		05/11/2010 12:12	1		DB-35MS 0.32 (mm)
ICV 580-63352/8		05/11/2010 12:12	1		DB-XLB 0.32 (mm)
IC 580-63352/9		05/11/2010 12:45	1	PCB27668.D	DB-35MS 0.32 (mm)
IC 580-63352/9		05/11/2010 12:45	1	PCB27668.D	DB-XLB 0.32 (mm)
IC 580-63352/10		05/11/2010 13:00	1	PCB27669.D	DB-35MS 0.32 (mm)
IC 580-63352/10		05/11/2010 13:00	1	PCB27669.D	DB-XLB 0.32 (mm)
IC 580-63352/11		05/11/2010 13:15	1	PCB27670.D	DB-35MS 0.32 (mm)
IC 580-63352/11		05/11/2010 13:15	1	PCB27670.D	DB-XLB 0.32 (mm)
IC 580-63352/12		05/11/2010 13:31	1	PCB27671.D	DB-35MS 0.32 (mm)
IC 580-63352/12		05/11/2010 13:31	1	PCB27671.D	DB-XLB 0.32 (mm)
IC 580-63352/13		05/11/2010 13:46	1	PCB27672.D	DB-35MS 0.32 (mm)
IC 580-63352/13		05/11/2010 13:46	1	PCB27672.D	DB-XLB 0.32 (mm)
IC 580-63352/14		05/11/2010 14:02	1	PCB27673.D	DB-35MS 0.32 (mm)
IC 580-63352/14		05/11/2010 14:02	1	PCB27673.D	DB-XLB 0.32 (mm)
ICV 580-63352/15		05/11/2010 14:17	1		DB-35MS 0.32 (mm)
ICV 580-63352/15		05/11/2010 14:17	1		DB-XLB 0.32 (mm)
IC 580-63352/16		05/11/2010 14:33	1	PCB27675.D	DB-35MS 0.32 (mm)
IC 580-63352/16		05/11/2010 14:33	1	PCB27675.D	DB-XLB 0.32 (mm)
IC 580-63352/17		05/11/2010 14:48	1	PCB27676.D	DB-35MS 0.32 (mm)
IC 580-63352/17		05/11/2010 14:48	1	PCB27676.D	DB-XLB 0.32 (mm)
IC 580-63352/18		05/11/2010 15:04	1	PCB27677.D	DB-35MS 0.32 (mm)
IC 580-63352/18		05/11/2010 15:04	1	PCB27677.D	DB-XLB 0.32 (mm)
IC 580-63352/19		05/11/2010 15:19	1	PCB27678.D	DB-35MS 0.32 (mm)
IC 580-63352/19		05/11/2010 15:19	1	PCB27678.D	DB-XLB 0.32 (mm)
IC 580-63352/20		05/11/2010 15:35	1	PCB27679.D	DB-35MS 0.32 (mm)
IC 580-63352/20		05/11/2010 15:35	1	PCB27679.D	DB-XLB 0.32 (mm)
IC 580-63352/21		05/11/2010 15:50	1	PCB27680.D	DB-35MS 0.32 (mm)
IC 580-63352/21		05/11/2010 15:50	1	PCB27680.D	DB-XLB 0.32 (mm)
ICV 580-63352/22		05/11/2010 16:05	1		DB-35MS 0.32 (mm)
ICV 580-63352/22		05/11/2010 16:05	1		DB-XLB 0.32 (mm)
IC 580-63352/23		05/11/2010 16:21	1	PCB27682.D	DB-35MS 0.32 (mm)
IC 580-63352/23		05/11/2010 16:21	1	PCB27682.D	DB-XLB 0.32 (mm)
IC 580-63352/24		05/11/2010 16:36	1	PCB27683.D	DB-35MS 0.32 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Instrument ID: TAC034 Start Date: 05/11/2010 10:17Analysis Batch Number: 63352 End Date: 05/11/2010 19:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 580-63352/24		05/11/2010 16:36	1	PCB27683.D	DB-XLB 0.32 (mm)
IC 580-63352/25		05/11/2010 16:52	1	PCB27684.D	DB-35MS 0.32 (mm)
IC 580-63352/25		05/11/2010 16:52	1	PCB27684.D	DB-XLB 0.32 (mm)
IC 580-63352/26		05/11/2010 17:07	1	PCB27685.D	DB-35MS 0.32 (mm)
IC 580-63352/26		05/11/2010 17:07	1	PCB27685.D	DB-XLB 0.32 (mm)
IC 580-63352/27		05/11/2010 17:23	1	PCB27686.D	DB-35MS 0.32 (mm)
IC 580-63352/27		05/11/2010 17:23	1	PCB27686.D	DB-XLB 0.32 (mm)
IC 580-63352/28		05/11/2010 17:38	1	PCB27687.D	DB-35MS 0.32 (mm)
IC 580-63352/28		05/11/2010 17:38	1	PCB27687.D	DB-XLB 0.32 (mm)
ICV 580-63352/29		05/11/2010 17:54	1		DB-35MS 0.32 (mm)
ICV 580-63352/29		05/11/2010 17:54	1		DB-XLB 0.32 (mm)
IC 580-63352/30		05/11/2010 18:09	1	PCB27689.D	DB-35MS 0.32 (mm)
IC 580-63352/30		05/11/2010 18:09	1	PCB27689.D	DB-XLB 0.32 (mm)
IC 580-63352/31		05/11/2010 18:25	1	PCB27690.D	DB-35MS 0.32 (mm)
IC 580-63352/31		05/11/2010 18:25	1	PCB27690.D	DB-XLB 0.32 (mm)
IC 580-63352/32		05/11/2010 18:40	1	PCB27691.D	DB-35MS 0.32 (mm)
IC 580-63352/32		05/11/2010 18:40	1	PCB27691.D	DB-XLB 0.32 (mm)
IC 580-63352/33		05/11/2010 18:55	1	PCB27692.D	DB-35MS 0.32 (mm)
IC 580-63352/33		05/11/2010 18:55	1	PCB27692.D	DB-XLB 0.32 (mm)
IC 580-63352/34		05/11/2010 19:11	1	PCB27693.D	DB-35MS 0.32 (mm)
IC 580-63352/34		05/11/2010 19:11	1	PCB27693.D	DB-XLB 0.32 (mm)
IC 580-63352/35		05/11/2010 19:26	1	PCB27694.D	DB-35MS 0.32 (mm)
IC 580-63352/35		05/11/2010 19:26	1	PCB27694.D	DB-XLB 0.32 (mm)
ICV 580-63352/36		05/11/2010 19:42	1		DB-35MS 0.32 (mm)
ICV 580-63352/36		05/11/2010 19:42	1		DB-XLB 0.32 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Instrument ID: TAC034 Start Date: 06/01/2010 08:19Analysis Batch Number: 64687 End Date: 06/01/2010 11:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 580-64687/2		06/01/2010 08:19	1	PCB27847.D	DB-35MS 0.32 (mm)
CCVRT 580-64687/2		06/01/2010 08:19	1	PCB27847.D	DB-XLB 0.32 (mm)
CCV 580-64687/3		06/01/2010 08:55	1	PCB27848.D	DB-35MS 0.32 (mm)
CCV 580-64687/3		06/01/2010 08:55	1	PCB27848.D	DB-XLB 0.32 (mm)
ZZZZZ		06/01/2010 09:20	1		DB-35MS 0.32 (mm)
ZZZZZ		06/01/2010 09:20	1		DB-XLB 0.32 (mm)
ZZZZZ		06/01/2010 09:36	1		DB-35MS 0.32 (mm)
ZZZZZ		06/01/2010 09:36	1		DB-XLB 0.32 (mm)
580-19562-1	MW3-052410-W	06/01/2010 09:51	1	PCB27851.D	DB-35MS 0.32 (mm)
580-19562-1	MW3-052410-W	06/01/2010 09:51	1	PCB27851.D	DB-XLB 0.32 (mm)
580-19562-2	MW18-052410-W	06/01/2010 10:06	1	PCB27852.D	DB-35MS 0.32 (mm)
580-19562-2	MW18-052410-W	06/01/2010 10:06	1	PCB27852.D	DB-XLB 0.32 (mm)
580-19562-3	MW16-052410-W	06/01/2010 10:22	1	PCB27853.D	DB-35MS 0.32 (mm)
580-19562-3	MW16-052410-W	06/01/2010 10:22	1	PCB27853.D	DB-XLB 0.32 (mm)
580-19562-3 MS	MW16-052410-W MS	06/01/2010 10:37	1	PCB27854.D	DB-35MS 0.32 (mm)
580-19562-3 MS	MW16-052410-W MS	06/01/2010 10:37	1	PCB27854.D	DB-XLB 0.32 (mm)
580-19562-3 MSD	MW16-052410-W MSD	06/01/2010 10:53	1	PCB27855.D	DB-35MS 0.32 (mm)
580-19562-3 MSD	MW16-052410-W MSD	06/01/2010 10:53	1	PCB27855.D	DB-XLB 0.32 (mm)
580-19562-4	MW8-052410-W	06/01/2010 11:08	1	PCB27856.D	DB-35MS 0.32 (mm)
580-19562-4	MW8-052410-W	06/01/2010 11:08	1	PCB27856.D	DB-XLB 0.32 (mm)
580-19562-5	Dupe1-052410-W	06/01/2010 11:24	1	PCB27857.D	DB-35MS 0.32 (mm)
580-19562-5	Dupe1-052410-W	06/01/2010 11:24	1	PCB27857.D	DB-XLB 0.32 (mm)
580-19562-7	MW17-052410-W	06/01/2010 11:39	1	PCB27858.D	DB-35MS 0.32 (mm)
580-19562-7	MW17-052410-W	06/01/2010 11:39	1	PCB27858.D	DB-XLB 0.32 (mm)
CCV 580-64687/14		06/01/2010 11:55	1	PCB27859.D	DB-35MS 0.32 (mm)
CCV 580-64687/14		06/01/2010 11:55	1	PCB27859.D	DB-XLB 0.32 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Instrument ID: TAC034 Start Date: 06/08/2010 11:03

Analysis Batch Number: 65215 End Date: 06/08/2010 16:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PIBLK 580-65215/1		06/08/2010 11:03	1	PCB27892.D	DB-35MS 0.32 (mm)
PIBLK 580-65215/1		06/08/2010 11:03	1	PCB27892.D	DB-XLB 0.32 (mm)
CCVRT 580-65215/2		06/08/2010 11:18	1	PCB27893.D	DB-35MS 0.32 (mm)
CCVRT 580-65215/2		06/08/2010 11:18	1	PCB27893.D	DB-XLB 0.32 (mm)
MB 580-64456/1-A		06/08/2010 12:01	1	PCB27894.D	DB-35MS 0.32 (mm)
MB 580-64456/1-A		06/08/2010 12:01	1	PCB27894.D	DB-XLB 0.32 (mm)
CCV 580-65215/5		06/08/2010 12:32	1	PCB27896.D	DB-35MS 0.32 (mm)
CCV 580-65215/5		06/08/2010 12:32	1	PCB27896.D	DB-XLB 0.32 (mm)
CCB 580-65215/6		06/08/2010 12:58	1		DB-35MS 0.32 (mm)
CCB 580-65215/6		06/08/2010 12:58	1	PCB27897.D	DB-XLB 0.32 (mm)
LCS 580-64456/2-A		06/08/2010 13:14	1	PCB27898.D	DB-35MS 0.32 (mm)
LCS 580-64456/2-A		06/08/2010 13:14	1	PCB27898.D	DB-XLB 0.32 (mm)
CCV 580-65215/8		06/08/2010 13:29	1	PCB27899.D	DB-35MS 0.32 (mm)
CCV 580-65215/8		06/08/2010 13:29	1	PCB27899.D	DB-XLB 0.32 (mm)
ZZZZZ		06/08/2010 15:04	1		DB-35MS 0.32 (mm)
ZZZZZ		06/08/2010 15:04	1		DB-XLB 0.32 (mm)
ZZZZZ		06/08/2010 15:20	1		DB-35MS 0.32 (mm)
ZZZZZ		06/08/2010 15:20	1		DB-XLB 0.32 (mm)
ZZZZZ		06/08/2010 15:35	1		DB-35MS 0.32 (mm)
ZZZZZ		06/08/2010 15:35	1		DB-XLB 0.32 (mm)
ZZZZZ		06/08/2010 15:51	1		DB-35MS 0.32 (mm)
ZZZZZ		06/08/2010 15:51	1		DB-XLB 0.32 (mm)
ZZZZZ		06/08/2010 16:06	1		DB-35MS 0.32 (mm)
ZZZZZ		06/08/2010 16:06	1		DB-XLB 0.32 (mm)
CCV 580-65215/14		06/08/2010 16:22	1		DB-35MS 0.32 (mm)
CCV 580-65215/14		06/08/2010 16:22	1		DB-XLB 0.32 (mm)

Organic Prep Worksheet

Batch Number: 580-64456

Method: 3520C

Analyst: Palmer, Sonya

Date Open: May 26 2010 5:25PM

Batch End: May 27 2010 6:00PM

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	pH of the sample after first adjustment	PCBLLSSpk_00018	Pest/PCB Surr_00008
MB~580-64456/1		3520C, 8082		6	1000 mL	1 mL	na		10 uL
LCS~580-64456/2		3520C, 8082		6	1000 mL	1 mL	na	10 uL	10 uL
580-19562-F-1	MW3-052410-W	3520C, 8082	T	7	1060 mL	1 mL	na		10 uL
580-19562-E-2	MW18-052410-W	3520C, 8082	T	7	1060 mL	1 mL	na		10 uL
580-19562-E-3	MW16-052410-W	3520C, 8082	T	7	1060 mL	1 mL	na		10 uL
580-19562-E-3~MS	MW16-052410-W	3520C, 8082	T	7	1060 mL	1 mL	na	10 uL	10 uL
580-19562-E-3~MSD	MW16-052410-W	3520C, 8082	T	7	1060 mL	1 mL	na	10 uL	10 uL
580-19562-C-4	MW8-052410-W	3520C, 8082	T	7	1060 mL	1 mL	na		10 uL
580-19562-C-5	Dupe1-052410-W	3520C, 8082	T	7	1060 mL	1 mL	na		10 uL
580-19562-F-7	MW17-052410-W	3520C, 8082	T	7	1060 mL	1 mL	na		10 uL

Person's name who did the prep:

spalmer

N-evap temperature:

31.4 Celsius

Prep Solvent Name:

MecI2

Florisil Lot #:

na

Prep Solvent Lot #:

j05j13

Copper Lot #:

na

Prep Solvent Volume Used:

200 mL

Sulfuric Acid Lot Number:

518096

Person's name who witnessed reagent drop:

na

Acid used for pH adjustment:

na

Acid used for pH adjust Lot #:

na

Time the first extraction started 24 hr:

1700

Time the first extraction ended 24hr:

1100

Base used for pH adjustment:

na

Base used for pH adjust Lot #:

na

Time the second extraction started 24 hr:

na

Time the second extractino ended 24 hr:

na

Silica Gel Lot Number:

na

Person's name who did the concentration:

spalmer

Exchange Solvent Name:

Hexane

Exchange Solvent Lot #:

H37E48

Concentration Start Time:

na

Concentration End Time:

na

Na2SO4 Lot Number:

510035

Sufficient volume for MS/MSD?:

yes

Filter Paper Lot Number:

K11683411A

Water Bath ID:

TAC603

Water Bath Temperature:

84-87 corrected Celsius

Method NWTPH Dx

Northwest - Semi-Volatile Petroleum
Products (GC) by Method NWTPH_Dx

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (2): ZB-1 MS ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	OTPH #
MW3-052410-W	580-19562-1	91
MW18-052410-W	580-19562-2	87
MW16-052410-W	580-19562-3	90
MW8-052410-W	580-19562-4	94
Dupe1-052410-W	580-19562-5	92
MW17-052410-W	580-19562-7	85
	MB 580-64521/1-B	92
	LCS 580-64521/2-B	90
	LCSD 580-64521/3-B	91
MW16-052410-W MS	580-19562-3 MS	90
MW16-052410-W MSD	580-19562-3 MSD	85

OTPH = o-Terphenyl

QC LIMITS
50-150

Column to be used to flag recovery values

FORM II NWTPH-Dx

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: T130579.D

Lab ID: LCS 580-64521/2-B Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
#2 Diesel (C10-C24)	5.00	4.46	89	70-130	
Motor Oil (>C24-C36)	5.00	4.88	98	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: T130581.D

Lab ID: LCSO 580-64521/3-B Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCSO CONCENTRATION (mg/L)	LCSO % REC	% RPD	QC LIMITS		#
					RPD	REC	
#2 Diesel (C10-C24)	5.00	4.60	92	3	30	70-130	
Motor Oil (>C24-C36)	5.00	5.08	102	4	30	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: T130611.D

Lab ID: 580-19562-3 MS Client ID: MW16-052410-W MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
#2 Diesel (C10-C24)	4.81	ND	4.24	88	70-130	
Motor Oil (>C24-C36)	4.81	ND	4.57	95	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: T130613.D
 Lab ID: 580-19562-3 MSD Client ID: MW16-052410-W MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
#2 Diesel (C10-C24)	4.81	4.08	85	4	30	70-130	
Motor Oil (>C24-C36)	4.81	4.41	92	4	30	70-130	

Column to be used to flag recovery and RPD values

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab File ID: T130577.D Lab Sample ID: MB 580-64521/1-B
 Matrix: Water Date Extracted: 05/27/2010 12:46
 Instrument ID: TAC013 Date Analyzed: 06/02/2010 09:13
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-64521/2-B	T130579.D	06/02/2010 09:33
	LCSD 580-64521/3-B	T130581.D	06/02/2010 09:53
MW3-052410-W	580-19562-1	T130605.D	06/02/2010 13:55
MW18-052410-W	580-19562-2	T130607.D	06/02/2010 14:15
MW16-052410-W	580-19562-3	T130609.D	06/02/2010 14:35
MW16-052410-W MS	580-19562-3 MS	T130611.D	06/02/2010 14:55
MW16-052410-W MSD	580-19562-3 MSD	T130613.D	06/02/2010 15:15
MW8-052410-W	580-19562-4	T130615.D	06/02/2010 15:35
Dupe1-052410-W	580-19562-5	T130617.D	06/02/2010 15:55
MW17-052410-W	580-19562-7	T130619.D	06/02/2010 16:15

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Instrument ID: TAC013 Calibration Start Date: 05/26/2010 14:17
 GC Column: ZB-1 MS ID: 0.18(mm) Calibration End Date: 05/26/2010 16:17
 Calibration ID: 5050

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				OTPH		
				RT #		
SURROGATE RT FROM CONTINUING CALIBRATION				5.24		
UPPER LIMIT				5.27		
LOWER LIMIT				5.21		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-64764/3		06/02/2010 07:13	T130565.D	5.24		
PIBLK 580-64764/20		06/02/2010 12:55	T130599.D	5.24		

OTPH = o-Terphenyl

OTPH RT Limit = ± .03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII NWTPH-DX

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW3-052410-W Lab Sample ID: 580-19562-1
 Matrix: Water Lab File ID: T130605.D
 Analysis Method: NWTPH-Dx Date Collected: 05/24/2010 08:00
 Extraction Method: 3520C Date Extracted: 05/27/2010 12:46
 Sample wt/vol: 1040 (mL) Date Analyzed: 06/02/2010 13:55
 Con. Extract Vol.: 5 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1 MS ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64764 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00163	#2 Diesel (C10-C24)	ND		0.12	0.12
STL00299	Motor Oil (>C24-C36)	ND		0.24	0.24

CAS NO.	SURROGATE	%REC	LIMITS	Q
84-15-1	o-Terphenyl	91	50-150	

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW18-052410-W Lab Sample ID: 580-19562-2
 Matrix: Water Lab File ID: T130607.D
 Analysis Method: NWTPH-Dx Date Collected: 05/24/2010 09:20
 Extraction Method: 3520C Date Extracted: 05/27/2010 12:46
 Sample wt/vol: 1040 (mL) Date Analyzed: 06/02/2010 14:15
 Con. Extract Vol.: 5 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1 MS ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64764 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00163	#2 Diesel (C10-C24)	ND		0.12	0.12
STL00299	Motor Oil (>C24-C36)	ND		0.24	0.24

CAS NO.	SURROGATE	%REC	LIMITS	Q
84-15-1	o-Terphenyl	87	50-150	

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W Lab Sample ID: 580-19562-3
 Matrix: Water Lab File ID: T130609.D
 Analysis Method: NWTPH-Dx Date Collected: 05/24/2010 10:34
 Extraction Method: 3520C Date Extracted: 05/27/2010 12:46
 Sample wt/vol: 1040 (mL) Date Analyzed: 06/02/2010 14:35
 Con. Extract Vol.: 5 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1 MS ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64764 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00163	#2 Diesel (C10-C24)	ND		0.12	0.12
STL00299	Motor Oil (>C24-C36)	ND		0.24	0.24

CAS NO.	SURROGATE	%REC	LIMITS	Q
84-15-1	o-Terphenyl	90	50-150	

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW8-052410-W Lab Sample ID: 580-19562-4
 Matrix: Water Lab File ID: T130615.D
 Analysis Method: NWTPH-Dx Date Collected: 05/24/2010 12:10
 Extraction Method: 3520C Date Extracted: 05/27/2010 12:46
 Sample wt/vol: 1040 (mL) Date Analyzed: 06/02/2010 15:35
 Con. Extract Vol.: 5 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1 MS ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64764 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00163	#2 Diesel (C10-C24)	ND		0.12	0.12
STL00299	Motor Oil (>C24-C36)	ND		0.24	0.24

CAS NO.	SURROGATE	%REC	LIMITS	Q
84-15-1	o-Terphenyl	94	50-150	

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: Dupe1-052410-W Lab Sample ID: 580-19562-5
 Matrix: Water Lab File ID: T130617.D
 Analysis Method: NWTPH-Dx Date Collected: 05/24/2010 00:00
 Extraction Method: 3520C Date Extracted: 05/27/2010 12:46
 Sample wt/vol: 1040 (mL) Date Analyzed: 06/02/2010 15:55
 Con. Extract Vol.: 5 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1 MS ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64764 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00163	#2 Diesel (C10-C24)	ND		0.12	0.12
STL00299	Motor Oil (>C24-C36)	ND		0.24	0.24

CAS NO.	SURROGATE	%REC	LIMITS	Q
84-15-1	o-Terphenyl	92	50-150	

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW17-052410-W Lab Sample ID: 580-19562-7
 Matrix: Water Lab File ID: T130619.D
 Analysis Method: NWTPH-Dx Date Collected: 05/24/2010 14:20
 Extraction Method: 3520C Date Extracted: 05/27/2010 12:46
 Sample wt/vol: 1030 (mL) Date Analyzed: 06/02/2010 16:15
 Con. Extract Vol.: 5 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1 MS ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64764 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00163	#2 Diesel (C10-C24)	ND		0.12	0.12
STL00299	Motor Oil (>C24-C36)	ND		0.24	0.24

CAS NO.	SURROGATE	%REC	LIMITS	Q
84-15-1	o-Terphenyl	85	50-150	

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 64419

SDG No.: _____

Instrument ID: TAC013 GC Column: ZB-1 MS ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/26/2010 14:17 Calibration End Date: 05/26/2010 16:17 Calibration ID: 5050

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-64419/3	T130433.D
Level 2	IC 580-64419/4	T130435.D
Level 3	IC 580-64419/5	T130437.D
Level 4	ICRT 580-64419/6	T130439.D
Level 5	IC 580-64419/7	T130441.D
Level 6	IC 580-64419/8	T130443.D
Level 7	IC 580-64419/9	T130445.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
#2 Diesel (C10-C24)	4.068	4.068	4.068	4.068	4.068	4.068	4.068				1.490 - 6.645	4.068
#2 Diesel (>C12-C24)	4.483	4.483	4.483	4.483	4.483	4.483	4.483				2.322 - 6.645	4.483
Motor Oil (>C24-C32)	7.646	7.646	7.646	7.646	7.646	7.646	7.646				6.645 - 8.647	7.646
Motor Oil (>C24-C36)	8.138	8.138	8.138	8.138	8.138	8.138	8.138				6.645 - 9.632	8.138
o-Terphenyl	5.239	5.240	5.239	5.242	5.243	5.246	5.257				5.212 - 5.272	5.244
n-Triacontane-d62	7.984	7.985	7.977	7.983	7.983	7.988	7.997				7.953 - 8.013	7.985

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 64419

SDG No.: _____

Instrument ID: TAC013 GC Column: ZB-1 MS ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/26/2010 14:17 Calibration End Date: 05/26/2010 16:17 Calibration ID: 5050

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-64419/3	T130433.D
Level 2	IC 580-64419/4	T130435.D
Level 3	IC 580-64419/5	T130437.D
Level 4	ICRT 580-64419/6	T130439.D
Level 5	IC 580-64419/7	T130441.D
Level 6	IC 580-64419/8	T130443.D
Level 7	IC 580-64419/9	T130445.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
#2 Diesel (C10-C24)	113603 130174	112079 128006	114748 127161	129254	Ave		122146			15.00	6.7		15.0			
#2 Diesel (>C12-C24)	106126 120176	104634 118171	106651 116834	119885	Ave		113211			15.00	6.2		15.0			
Motor Oil (>C24-C32)	66494 51391	51619 51703	48488 50424	50848	Lin2	297244	49444							0.9960		0.9900
Motor Oil (>C24-C36)	114610 70050	77595 69676	70792 68324	69253	Lin2	892279	66526							0.9950		0.9900
o-Terphenyl	166027 158474	155778 156860	157341 152551	162604	Ave		158519			15.00	2.8		15.0			
n-Triacontane-d62	112807 135267	113836 132134	121470 129174	134310	Ave		125571				7.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1 Analy Batch No.: 64419

SDG No.: _____

Instrument ID: TAC013 GC Column: ZB-1 MS ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/26/2010 14:17 Calibration End Date: 05/26/2010 16:17 Calibration ID: 5050

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-64419/3	T130433.D
Level 2	IC 580-64419/4	T130435.D
Level 3	IC 580-64419/5	T130437.D
Level 4	ICRT 580-64419/6	T130439.D
Level 5	IC 580-64419/7	T130441.D
Level 6	IC 580-64419/8	T130443.D
Level 7	IC 580-64419/9	T130445.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		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
#2 Diesel (C10-C24)	Ave	2276283	5614374	11496173	64747099	130415693	20.0	50.1	100	501	1002
		256489100	636987961				2004	5009			
#2 Diesel (>C12-C24)	Ave	2126458	5241434	10684944	60053948	120399759	20.0	50.1	100	501	1002
		236780708	585258643				2004	5009			
Motor Oil (>C24-C32)	Lin2	1331081	2583289	4853167	25446860	51437610	20.0	50.0	100	500	1001
		103498925	252348359				2002	5005			
Motor Oil (>C24-C36)	Lin2	2294270	3883256	7085527	34657848	70113487	20.0	50.0	100	500	1001
		139476992	341927583				2002	5005			
o-Terphenyl	Ave	135677	318255	642894	3321995	6475247	0.817	2.04	4.09	20.4	40.9
		12818589	31166117				81.7	204			
n-Triacontane-d62	Ave	81311	205132	437779	2420259	4875018	0.721	1.80	3.60	18.0	36.0
		9524216	23277242				72.1	180			

Curve Type Legend:

Ave = Average
Lin2 = Linear 1/conc^2

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-64764/3 Calibration Date: 06/02/2010 07:13
 Instrument ID: TAC013 Calib Start Date: 05/26/2010 14:17
 GC Column: ZB-1 MS ID: 0.18 (mm) Calib End Date: 05/26/2010 16:17
 Lab File ID: T130565.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
#2 Diesel (C10-C24)	Ave	122146	117836		483	501	-3.5	15.0
#2 Diesel (>C12-C24)	Ave	113211	109110		483	501	-3.6	15.0
Motor Oil (>C24-C32)	Lin2		48039		480	500	-4.0	15.0
Motor Oil (>C24-C36)	Lin2		68344		501	500	0.1	15.0
o-Terphenyl	Ave	158519	150800		19.4	20.4	-4.9	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-64764/3 Calibration Date: 06/02/2010 07:13
 Instrument ID: TAC013 Calib Start Date: 05/26/2010 14:17
 GC Column: ZB-1 MS ID: 0.18 (mm) Calib End Date: 05/26/2010 16:17
 Lab File ID: T130565.D

Analyte	RT	RT WINDOW	
		TO	FROM
#2 Diesel (C10-C24)	4.07	1.49	6.65
#2 Diesel (>C12-C24)	4.48	2.32	6.65
Motor Oil (>C24-C32)	7.64	6.65	8.64
Motor Oil (>C24-C36)	8.14	6.65	9.63
o-Terphenyl	5.24	5.21	5.27

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64764/8 Calibration Date: 06/02/2010 08:53
 Instrument ID: TAC013 Calib Start Date: 05/26/2010 14:17
 GC Column: ZB-1 MS ID: 0.18 (mm) Calib End Date: 05/26/2010 16:17
 Lab File ID: T130575.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
#2 Diesel (C10-C24)	Ave	122146	120006		492	501	-1.8	15.0
#2 Diesel (>C12-C24)	Ave	113211	111194		492	501	-1.8	15.0
Motor Oil (>C24-C32)	Lin2		49351		493	500	-1.4	15.0
Motor Oil (>C24-C36)	Lin2		68596		503	500	0.4	15.0
o-Terphenyl	Ave	158519	152397		19.6	20.4	-3.9	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64764/8 Calibration Date: 06/02/2010 08:53
 Instrument ID: TAC013 Calib Start Date: 05/26/2010 14:17
 GC Column: ZB-1 MS ID: 0.18 (mm) Calib End Date: 05/26/2010 16:17
 Lab File ID: T130575.D

Analyte	RT	RT WINDOW	
		TO	FROM
#2 Diesel (C10-C24)	4.07	1.49	6.65
#2 Diesel (>C12-C24)	4.48	2.32	6.65
Motor Oil (>C24-C32)	7.64	6.65	8.64
Motor Oil (>C24-C36)	8.14	6.65	9.63
o-Terphenyl	5.24	5.21	5.27

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64764/19 Calibration Date: 06/02/2010 12:34
 Instrument ID: TAC013 Calib Start Date: 05/26/2010 14:17
 GC Column: ZB-1 MS ID: 0.18 (mm) Calib End Date: 05/26/2010 16:17
 Lab File ID: T130597.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
#2 Diesel (C10-C24)	Ave	122146	114013		468	501	-6.7	15.0
#2 Diesel (>C12-C24)	Ave	113211	105957		469	501	-6.4	15.0
Motor Oil (>C24-C32)	Lin2		45217		452	500	-9.8	15.0
Motor Oil (>C24-C36)	Lin2		65445		479	500	-4.3	15.0
o-Terphenyl	Ave	158519	147806		19.0	20.4	-6.8	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64764/19 Calibration Date: 06/02/2010 12:34
 Instrument ID: TAC013 Calib Start Date: 05/26/2010 14:17
 GC Column: ZB-1 MS ID: 0.18 (mm) Calib End Date: 05/26/2010 16:17
 Lab File ID: T130597.D

Analyte	RT	RT WINDOW	
		TO	FROM
#2 Diesel (C10-C24)	4.07	1.49	6.65
#2 Diesel (>C12-C24)	4.48	2.32	6.65
Motor Oil (>C24-C32)	7.64	6.65	8.64
Motor Oil (>C24-C36)	8.14	6.65	9.63
o-Terphenyl	5.24	5.21	5.27

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64764/31 Calibration Date: 06/02/2010 16:35
 Instrument ID: TAC013 Calib Start Date: 05/26/2010 14:17
 GC Column: ZB-1 MS ID: 0.18 (mm) Calib End Date: 05/26/2010 16:17
 Lab File ID: T130621.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
#2 Diesel (C10-C24)	Ave	122146	113347		465	501	-7.2	15.0
#2 Diesel (>C12-C24)	Ave	113211	105005		465	501	-7.2	15.0
Motor Oil (>C24-C32)	Lin2		44935		449	500	-10.3	15.0
Motor Oil (>C24-C36)	Lin2		63631		465	500	-7.0	15.0
o-Terphenyl	Ave	158519	144554		18.6	20.4	-8.8	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: CCV 580-64764/31 Calibration Date: 06/02/2010 16:35
 Instrument ID: TAC013 Calib Start Date: 05/26/2010 14:17
 GC Column: ZB-1 MS ID: 0.18 (mm) Calib End Date: 05/26/2010 16:17
 Lab File ID: T130621.D

Analyte	RT	RT WINDOW	
		TO	FROM
#2 Diesel (C10-C24)	4.07	1.49	6.65
#2 Diesel (>C12-C24)	4.48	2.32	6.65
Motor Oil (>C24-C32)	7.64	6.65	8.64
Motor Oil (>C24-C36)	8.14	6.65	9.63
o-Terphenyl	5.24	5.21	5.27

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-64521/1-B
 Matrix: Water Lab File ID: T130577.D
 Analysis Method: NWTPH-Dx Date Collected: _____
 Extraction Method: 3520C Date Extracted: 05/27/2010 12:46
 Sample wt/vol: 1000 (mL) Date Analyzed: 06/02/2010 09:13
 Con. Extract Vol.: 5 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1 MS ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64764 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00163	#2 Diesel (C10-C24)	ND		0.12	0.12
STL00299	Motor Oil (>C24-C36)	ND		0.25	0.25

CAS NO.	SURROGATE	%REC	LIMITS	Q
84-15-1	o-Terphenyl	92	50-150	

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: PIBLK 580-64764/20
 Matrix: Water Lab File ID: T130599.D
 Analysis Method: NWTPH-Dx Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 06/02/2010 12:55
 Con. Extract Vol.: 1.0(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-1 MS ID: 0.18(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64764 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00163	#2 Diesel (C10-C24)	ND		25	25
STL00299	Motor Oil (>C24-C36)	ND		50	50

CAS NO.	SURROGATE	%REC	LIMITS	Q
84-15-1	o-Terphenyl	101	50-150	

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-64521/2-B
 Matrix: Water Lab File ID: T130579.D
 Analysis Method: NWTPH-Dx Date Collected: _____
 Extraction Method: 3520C Date Extracted: 05/27/2010 12:46
 Sample wt/vol: 1000 (mL) Date Analyzed: 06/02/2010 09:33
 Con. Extract Vol.: 5 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1 MS ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64764 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00163	#2 Diesel (C10-C24)	4.46		0.12	0.12
STL00299	Motor Oil (>C24-C36)	4.88		0.25	0.25

CAS NO.	SURROGATE	%REC	LIMITS	Q
84-15-1	o-Terphenyl	90	50-150	

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-64521/3-B
 Matrix: Water Lab File ID: T130581.D
 Analysis Method: NWTPH-Dx Date Collected: _____
 Extraction Method: 3520C Date Extracted: 05/27/2010 12:46
 Sample wt/vol: 1000 (mL) Date Analyzed: 06/02/2010 09:53
 Con. Extract Vol.: 5 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1 MS ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64764 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00163	#2 Diesel (C10-C24)	4.60		0.12	0.12
STL00299	Motor Oil (>C24-C36)	5.08		0.25	0.25

CAS NO.	SURROGATE	%REC	LIMITS	Q
84-15-1	o-Terphenyl	91	50-150	

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W MS Lab Sample ID: 580-19562-3 MS
 Matrix: Water Lab File ID: T130611.D
 Analysis Method: NWTPH-Dx Date Collected: 05/24/2010 10:34
 Extraction Method: 3520C Date Extracted: 05/27/2010 12:46
 Sample wt/vol: 1040 (mL) Date Analyzed: 06/02/2010 14:55
 Con. Extract Vol.: 5 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1 MS ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64764 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00163	#2 Diesel (C10-C24)	4.24		0.12	0.12
STL00299	Motor Oil (>C24-C36)	4.57		0.24	0.24

CAS NO.	SURROGATE	%REC	LIMITS	Q
84-15-1	o-Terphenyl	90	50-150	

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Client Sample ID: MW16-052410-W MSD Lab Sample ID: 580-19562-3 MSD
 Matrix: Water Lab File ID: T130613.D
 Analysis Method: NWTPH-Dx Date Collected: 05/24/2010 10:34
 Extraction Method: 3520C Date Extracted: 05/27/2010 12:46
 Sample wt/vol: 1040 (mL) Date Analyzed: 06/02/2010 15:15
 Con. Extract Vol.: 5 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1 MS ID: 0.18 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 64764 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00163	#2 Diesel (C10-C24)	4.08		0.12	0.12
STL00299	Motor Oil (>C24-C36)	4.41		0.24	0.24

CAS NO.	SURROGATE	%REC	LIMITS	Q
84-15-1	o-Terphenyl	85	50-150	

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Instrument ID: TAC013 Start Date: 05/26/2010 13:57

Analysis Batch Number: 64419 End Date: 05/26/2010 16:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/26/2010 13:57	1		ZB-1 MS 0.18 (mm)
IC 580-64419/3		05/26/2010 14:17	1	T130433.D	ZB-1 MS 0.18 (mm)
IC 580-64419/4		05/26/2010 14:37	1	T130435.D	ZB-1 MS 0.18 (mm)
IC 580-64419/5		05/26/2010 14:57	1	T130437.D	ZB-1 MS 0.18 (mm)
ICRT 580-64419/6		05/26/2010 15:17	1	T130439.D	ZB-1 MS 0.18 (mm)
IC 580-64419/7		05/26/2010 15:37	1	T130441.D	ZB-1 MS 0.18 (mm)
IC 580-64419/8		05/26/2010 15:57	1	T130443.D	ZB-1 MS 0.18 (mm)
IC 580-64419/9		05/26/2010 16:17	1	T130445.D	ZB-1 MS 0.18 (mm)
ICV 580-64419/10		05/26/2010 16:37	1		ZB-1 MS 0.18 (mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Instrument ID: TAC013 Start Date: 06/02/2010 06:53Analysis Batch Number: 64764 End Date: 06/02/2010 17:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/02/2010 06:53	1		ZB-1 MS 0.18 (mm)
CCVRT 580-64764/3		06/02/2010 07:13	1	T130565.D	ZB-1 MS 0.18 (mm)
PIBLK 580-64764/4		06/02/2010 07:33	1		ZB-1 MS 0.18 (mm)
ZZZZZ		06/02/2010 07:53	2		ZB-1 MS 0.18 (mm)
ZZZZZ		06/02/2010 08:13	1		ZB-1 MS 0.18 (mm)
ZZZZZ		06/02/2010 08:33	1		ZB-1 MS 0.18 (mm)
CCV 580-64764/8		06/02/2010 08:53	1	T130575.D	ZB-1 MS 0.18 (mm)
MB 580-64521/1-B		06/02/2010 09:13	1	T130577.D	ZB-1 MS 0.18 (mm)
LCS 580-64521/2-B		06/02/2010 09:33	1	T130579.D	ZB-1 MS 0.18 (mm)
LCSD 580-64521/3-B		06/02/2010 09:53	1	T130581.D	ZB-1 MS 0.18 (mm)
ZZZZZ		06/02/2010 10:13	1		ZB-1 MS 0.18 (mm)
ZZZZZ		06/02/2010 10:33	1		ZB-1 MS 0.18 (mm)
ZZZZZ		06/02/2010 10:53	1		ZB-1 MS 0.18 (mm)
ZZZZZ		06/02/2010 11:14	1		ZB-1 MS 0.18 (mm)
ZZZZZ		06/02/2010 11:34	1		ZB-1 MS 0.18 (mm)
ZZZZZ		06/02/2010 11:54	1		ZB-1 MS 0.18 (mm)
ZZZZZ		06/02/2010 12:14	1		ZB-1 MS 0.18 (mm)
CCV 580-64764/19		06/02/2010 12:34	1	T130597.D	ZB-1 MS 0.18 (mm)
PIBLK 580-64764/20		06/02/2010 12:55	1	T130599.D	ZB-1 MS 0.18 (mm)
ZZZZZ		06/02/2010 13:15	1		ZB-1 MS 0.18 (mm)
ZZZZZ		06/02/2010 13:35	1		ZB-1 MS 0.18 (mm)
580-19562-1	MW3-052410-W	06/02/2010 13:55	1	T130605.D	ZB-1 MS 0.18 (mm)
580-19562-2	MW18-052410-W	06/02/2010 14:15	1	T130607.D	ZB-1 MS 0.18 (mm)
580-19562-3	MW16-052410-W	06/02/2010 14:35	1	T130609.D	ZB-1 MS 0.18 (mm)
580-19562-3 MS	MW16-052410-W MS	06/02/2010 14:55	1	T130611.D	ZB-1 MS 0.18 (mm)
580-19562-3 MSD	MW16-052410-W MSD	06/02/2010 15:15	1	T130613.D	ZB-1 MS 0.18 (mm)
580-19562-4	MW8-052410-W	06/02/2010 15:35	1	T130615.D	ZB-1 MS 0.18 (mm)
580-19562-5	Dupe1-052410-W	06/02/2010 15:55	1	T130617.D	ZB-1 MS 0.18 (mm)
580-19562-7	MW17-052410-W	06/02/2010 16:15	1	T130619.D	ZB-1 MS 0.18 (mm)
CCV 580-64764/31		06/02/2010 16:35	1	T130621.D	ZB-1 MS 0.18 (mm)
PIBLK 580-64764/32		06/02/2010 16:55	1		ZB-1 MS 0.18 (mm)
ZZZZZ		06/02/2010 17:15	1		ZB-1 MS 0.18 (mm)
CCV 580-64764/34		06/02/2010 17:35	1		ZB-1 MS 0.18 (mm)

Organic Prep Worksheet

Batch Number: 580-64521

Date Open: May 27 2010 12:46PM

Method: 3520C

Batch End: May 28 2010 4:00PM

Analyst: Palmer, Sonya

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	pH of the sample after first adjustment	TPH Surrogate_00001	TPH/AK Spike_00008
MB~580-64521/1		3520C, 3630C, NWTPH-Dx		6	1000 mL	5 mL	<2	100 uL	
LCS~580-64521/2		3520C, 3630C, NWTPH-Dx		6	1000 mL	5 mL	<2	100 uL	100 uL
LCSD~580-64521/3		3520C, 3630C, NWTPH-Dx		6	1000 mL	5 mL	<2	100 uL	100 uL
580-19472-B-1			T	<2	1060 mL	5 mL	na	100 uL	
580-19472-B-2			T	<2	1060 mL	5 mL	na	100 uL	
580-19472-A-3			T	<2	1060 mL	5 mL	na	100 uL	
580-19472-B-4			T	<2	1060 mL	5 mL	na	100 uL	
580-19472-B-5			T	<2	1060 mL	5 mL	na	100 uL	
580-19472-B-6			T	<2	1060 mL	5 mL	na	100 uL	
580-19472-B-7			T	<2	1060 mL	5 mL	na	100 uL	
580-19472-A-8			T	<2	1060 mL	5 mL	na	100 uL	
580-19472-B-9			T	<2	1060 mL	5 mL	na	100 uL	
580-19562-A-1	MW3-052410-W	3520C, 3630C, NWTPH-Dx	T	<2	1040 mL	5 mL	na	100 uL	
580-19562-A-2	MW18-052410-W	3520C, 3630C, NWTPH-Dx	T	<2	1040 mL	5 mL	na	100 uL	
580-19562-A-3	MW16-052410-W	3520C, 3630C, NWTPH-Dx	T	<2	1040 mL	5 mL	na	100 uL	
580-19562-A-3~MS	MW16-052410-W	3520C, 3630C, NWTPH-Dx	T	<2	1040 mL	5 mL	na	100 uL	100 uL
580-19562-A-3~MSD	MW16-052410-W	3520C, 3630C, NWTPH-Dx	T	<2	1040 mL	5 mL	na	100 uL	100 uL
580-19562-B-4	MW8-052410-W	3520C, 3630C, NWTPH-Dx	T	<2	1040 mL	5 mL	na	100 uL	
580-19562-B-5	Dupe1-052410-W	3520C, 3630C, NWTPH-Dx	T	<2	1040 mL	5 mL	na	100 uL	
580-19562-A-7	MW17-052410-W	3520C, 3630C, NWTPH-Dx	T	<2	1030 mL	5 mL	na	100 uL	
580-19537-A-3			T	<2	1020 mL	5 mL	na	100 uL	

Person's name who did the prep:

spalmer

Time the first extraction started 24 hr:

1300

Prep Solvent Name:

Mec12

Time the first extraction ended 24hr:

0800

Prep Solvent Lot #:

J05J13

Base used for pH adjustment:

na

Prep Solvent Volume Used:

200 mL

Base used for pH adjust Lot #:

na

Person's name who witnessed reagent drop:

na

Time the second extraction started 24 hr:

na

Acid used for pH adjustment:

1:1H2SO4

Time the second extraction ended 24 hr:

na

Acid used for pH adjust Lot #:

497857

Silica Gel Lot Number:

na

Organic Prep Worksheet

Batch Number: 580-64521

Method: 3520C

Analyst: Palmer, Sonya

Person's name who did the concentration:

spalmer

Exchange Solvent Name:

na

Exchange Solvent Lot #:

na

Concentration Start Time:

na

Concentration End Time:

na

Na2SO4 Lot Number:

510035

Sufficient volume for MS/MSD?:

yes

Filter Paper Lot Number:

K11683411A

Water Bath ID:

TAC603

Water Bath Temperature:

71-74 corrected Celsius

N-evap temperature:

na Celsius

Florisil Lot #:

na

Copper Lot #:

na

Sulfuric Acid Lot Number:

na

Date Open: May 27 2010 12:46PM

Batch End: May 28 2010 4:00PM

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Tacoma Job Number: 580-19562-1

SDG No.: _____

Project: 318 State Ave, Olympia, WA

Client Sample ID	Lab Sample ID
<u>MW3-052410-W</u>	<u>580-19562-1</u>
<u>MW18-052410-W</u>	<u>580-19562-2</u>
<u>MW16-052410-W</u>	<u>580-19562-3</u>
<u>MW8-052410-W</u>	<u>580-19562-4</u>
<u>Dupe1-052410-W</u>	<u>580-19562-5</u>
<u>MW17-052410-W</u>	<u>580-19562-7</u>

Comments:

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: MW3-052410-W

Lab Sample ID: 580-19562-1

Lab Name: TestAmerica Tacoma

Job No.: 580-19562-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/24/2010 08:00

Reporting Basis: WET

Date Received: 05/26/2010 16:05

CAS No.	Analyte	Conc.	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0020	0.00040		mg/L		^	1	6020
7439-92-1	Lead	ND	0.00040		mg/L			1	6020

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: MW18-052410-W

Lab Sample ID: 580-19562-2

Lab Name: TestAmerica Tacoma

Job No.: 580-19562-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/24/2010 09:20

Reporting Basis: WET

Date Received: 05/26/2010 16:05

CAS No.	Analyte	Conc.	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0038	0.00040		mg/L		^	1	6020
7439-92-1	Lead	ND	0.00040		mg/L			1	6020

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: MW16-052410-W

Lab Sample ID: 580-19562-3

Lab Name: TestAmerica Tacoma

Job No.: 580-19562-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/24/2010 10:34

Reporting Basis: WET

Date Received: 05/26/2010 16:05

CAS No.	Analyte	Conc.	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0019	0.00040		mg/L		^	1	6020
7439-92-1	Lead	ND	0.00040		mg/L			1	6020

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: MW8-052410-W

Lab Sample ID: 580-19562-4

Lab Name: TestAmerica Tacoma

Job No.: 580-19562-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/24/2010 12:10

Reporting Basis: WET

Date Received: 05/26/2010 16:05

CAS No.	Analyte	Conc.	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0027	0.00040		mg/L		^	1	6020
7439-92-1	Lead	ND	0.00040		mg/L			1	6020

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: Dupe1-052410-W

Lab Sample ID: 580-19562-5

Lab Name: TestAmerica Tacoma

Job No.: 580-19562-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/24/2010 00:00

Reporting Basis: WET

Date Received: 05/26/2010 16:05

CAS No.	Analyte	Conc.	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0027	0.00040		mg/L		^	1	6020
7439-92-1	Lead	ND	0.00040		mg/L			1	6020

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: MW17-052410-W

Lab Sample ID: 580-19562-7

Lab Name: TestAmerica Tacoma

Job No.: 580-19562-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/24/2010 14:20

Reporting Basis: WET

Date Received: 05/26/2010 16:05

CAS No.	Analyte	Conc.	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0031	0.00040		mg/L		^	1	6020
7439-92-1	Lead	ND	0.00040		mg/L			1	6020

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	ICV 580-65242/7 06/08/2010 10:41				CCV 580-65242/12 06/08/2010 11:38				CCV 580-65242/24 06/08/2010 13:04			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.0403		0.0400	101	0.0495		0.0500	99	0.0497		0.0500	99
Lead	0.0422		0.0400	105	0.0502		0.0500	100	0.0506		0.0500	101

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 Tacoma Job No.: 580-19562-1

SDG No.: _____

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	CCV 580-65242/34 06/08/2010 14:23											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.0487		0.0500	97								
Lead	0.0512		0.0500	102								

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 Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Analysis Method: 6020 Instrument ID: SEA044
 Lab Sample ID: CRI 580-65242/9 Concentration Units: mg/L
 CRQL Check Standard Source: ICP-MS CCV_00004

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	0.00200	0.00198		99	50-150
Lead	0.00200	0.00206		103	50-150

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

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Concentration Units: mg/L

Analyte	RL	ICB 580-65242/8 06/08/2010 10:48		CCB 580-65242/13 06/08/2010 11:45		CCB 580-65242/25 06/08/2010 13:11		CCB 580-65242/35 06/08/2010 14:30	
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.00040	ND		ND		ND		ND	
Lead	0.00040	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
SDG No.: _____
Concentration Units: mg/L Lab Sample ID: MB 580-65117/21-A
Instrument Code: SEA044 Batch No.: 65242

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	ND		^	6020
7439-92-1	Lead	ND			6020

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: ICSA 580-65242/10 Instrument ID: SEA044
 Lab File ID: 015SMPL.D ICS Source: ICPMS- ICSA_00001
 Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		0.0004	
Lead		0.0003	
Aluminum	100	91.5	91
Antimony		0.0006	
Barium		0.0004	
Beryllium		0.0000	
Cadmium		0.0002	
Calcium	300	283	94
Chromium		0.0011	
Cobalt		0.0034	
Copper		0.0035	
Iron	250	233	93
Magnesium	100	92.5	93
Manganese		0.0055	
Mercury		-0.0011	
Molybdenum	2.00	2.00	100
Nickel		0.0025	
Phosphorus	100	99.7	100
Potassium	100	93.3	93
Selenium		0.0000	
Silver		0.0002	
Sodium	250	241	97
Strontium		0.0164	
Thallium		0.0001	
Tin		0.0001	
Titanium	2.00	1.94	97
Uranium		0.0000	
Vanadium		-0.0001	
Zinc		0.0033	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Lab Sample ID: ICSAB 580-65242/11 Instrument ID: SEA044
 Lab File ID: 016SMPL.D ICS Source: ICPMS- ICSA_00001
 Concentration Units: mg/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	0.100	0.105	105
Lead		0.0003	
Aluminum	100	92.3	92
Antimony		0.0007	
Barium		0.0004	
Beryllium		0.0000	
Cadmium	0.100	0.105	105
Calcium	300	282	94
Chromium	0.200	0.196	98
Cobalt	0.200	0.197	98
Copper	0.200	0.187	93
Iron	250	237	95
Magnesium	100	94.0	94
Manganese	0.200	0.198	99
Mercury		-0.0012	
Molybdenum	2.00	2.06	103
Nickel	0.200	0.193	96
Phosphorus	100	99.8	100
Potassium	100	94.4	94
Selenium	0.100	0.105	105
Silver	0.0500	0.0505	101
Sodium	250	242	97
Strontium		0.0165	
Thallium		0.0000	
Tin		0.0001	
Titanium	2.00	1.92	96
Uranium		0.0000	
Vanadium	0.200	0.202	101
Zinc	0.100	0.0975	98

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma

Job No.: 580-19562-1

SDG No.: _____

Lab Sample ID: ICSAB 580-65242/11

Instrument ID: SEA044

Lab File ID: 016SMPL.D

ICS Source: ICPMS-ICSB_00001

Concentration Units: mg/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	0.100	0.105	105
Lead		0.0003	
Aluminum	100	92.3	92
Antimony		0.0007	
Barium		0.0004	
Beryllium		0.0000	
Cadmium	0.100	0.105	105
Calcium	300	282	94
Chromium	0.200	0.196	98
Cobalt	0.200	0.197	98
Copper	0.200	0.187	93
Iron	250	237	95
Magnesium	100	94.0	94
Manganese	0.200	0.198	99
Mercury		-0.0012	
Molybdenum	2.00	2.06	103
Nickel	0.200	0.193	96
Phosphorus	100	99.8	100
Potassium	100	94.4	94
Selenium	0.100	0.105	105
Silver	0.0500	0.0505	101
Sodium	250	242	97
Strontium		0.0165	
Thallium		0.0000	
Tin		0.0001	
Titanium	2.00	1.92	96
Uranium		0.0000	
Vanadium	0.200	0.202	101
Zinc	0.100	0.0975	98

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS - TOTAL RECOVERABLE

Client ID: MW3-052410-W MS Lab ID: 580-19562-1 MS
 Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 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
Arsenic	3.87	0.0020	4.00	97	75-125	^	6020
Lead	1.03	ND	1.00	103	75-125		6020

SSR = Spiked Sample Result

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

5A-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 METALS - TOTAL RECOVERABLE

Client ID: MW3-052410-W MSD Lab ID: 580-19562-1 MSD
 Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Matrix: Water Concentration Units: mg/L
 % Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	3.79	4.00	95	75-125	2	20	^	6020
Lead	1.03	1.00	103	75-125	0	20		6020

SDR = Sample Duplicate Result

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

5B-IN
 POST DIGESTION SPIKE SAMPLE RECOVERY
 METALS - TOTAL RECOVERABLE

Client ID: MW3-052410-W PDS

Lab ID: 580-19562-1 PDS

Lab Name: TestAmerica Tacoma

Job No.: 580-19562-1

SDG No.: _____

Matrix: Water

Concentration Units: mg/L

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	3.80	0.0020	4.00	95	75-125	^	6020
Lead	1.02	ND	1.00	102	75-125		6020

SSR = Spiked Sample Result

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

6-IN
 DUPLICATES
 METALS - TOTAL RECOVERABLE

Client ID: MW3-052410-W DU Lab ID: 580-19562-1 DU
 Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 % Solids for Sample: _____ % Solids for Duplicate: _____
 Matrix: Water Concentration Units: mg/L

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	Method
Arsenic	0.00040	0.0020	0.00200	2	^	6020
Lead	0.00040	ND	ND	NC		6020

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

7A-IN
 LAB CONTROL SAMPLE
 METALS - TOTAL RECOVERABLE

Lab ID: LCS 580-65117/22-A

Lab Name: TestAmerica Tacoma

Job No.: 580-19562-1

Sample Matrix: Water

LCS Source: m-GPS-1_00015

Analyte	Water (mg/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	4.00	3.89		97	80	120	^	6020
Lead	1.00	0.986		99	80	120		6020

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

FORM VIIA - IN

7D-IN
 LAB CONTROL SAMPLE DUPLICATE
 METALS - TOTAL RECOVERABLE

Lab ID: LCSD 580-65117/23-A

Lab Name: TestAmerica Tacoma

Job No.: 580-19562-1

Sample Matrix: Water

LCS Source: m-GPS-1_00015

Analyte	(SDR) C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	3.87	4.00	97	80-120	0	20	^	6020
Lead	0.998	1.00	100	80-120	1	20		6020

SDR = Spike Duplicate Results

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

FORM VIID - IN

7A-IN
 LCS-STANDARD REFERENCE MATERIAL
 METALS - TOTAL RECOVERABLE

Lab ID: LCSSRM 580-65117/24-A

Lab Name: TestAmerica Tacoma

Job No.: 580-19562-1

Sample Matrix: Water

LCS Source: m-GPS-1_00015

Analyte	Water (mg/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	4.00	3.84		96	80	120	^	6020
Lead	1.00	0.989		99	80	120		6020

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

FORM VIIA - IN

8-IN
 ICP-AES AND ICP-MS SERIAL DILUTIONS
 METALS - TOTAL RECOVERABLE

Lab ID: 580-19562-1

SDG No: _____

Lab Name: TestAmerica Tacoma

Job No: 580-19562-1

Matrix: Water

Concentration Units: mg/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	Method
Arsenic	0.0020	ND	NC	^	6020
Lead	ND	ND	NC		6020

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Tacoma Job Number: 580-19562-1
SDG Number: _____
Matrix: Water Instrument ID: SEA044
Analysis Method: 6020 RL Date: 06/21/2007 12:07
Prep Method: 3005A
Leach Method: _____

Analyte	Wavelength/ Mass	RL (mg/L)	
Arsenic		0.0004	
Lead		0.0004	

11-IN
ICP-AES AND ICP-MS LINEAR RANGES
METALS

Lab Name: TestAmerica Tacoma

Job No: 580-19562-1

SDG No.: _____

Instrument ID: SEA044

Date: 04/01/2007 10:29

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Arsenic		5	6020
Lead		5	6020

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Preparation Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
580-19562-1	06/07/2010 11:41	65117		50	50
580-19562-1 DU	06/07/2010 11:41	65117		50	50
580-19562-1 MS	06/07/2010 11:41	65117		50	50
580-19562-1 MSD	06/07/2010 11:41	65117		50	50
580-19562-2	06/07/2010 11:41	65117		50	50
580-19562-3	06/07/2010 11:41	65117		50	50
580-19562-4	06/07/2010 11:41	65117		50	50
580-19562-5	06/07/2010 11:41	65117		50	50
580-19562-7	06/07/2010 11:41	65117		50	50
MB 580-65117/21-A	06/07/2010 11:41	65117		50	50
LCS 580-65117/22-A	06/07/2010 11:41	65117		50	50
LCSD 580-65117/23-A	06/07/2010 11:41	65117		50	50
LCSSRM 580-65117/24-A	06/07/2010 11:43	65117		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Instrument ID: SEA044 Method: 6020

Start Date: 06/08/2010 09:44 End Date: 06/08/2010 15:49

Lab Sample ID	D / F	Type	Time	Analytes															
				A	P														
STD0 580-65242/1 IC			09:44	X	X														
STD1 580-65242/2 IC			09:51	X	X														
STD2 580-65242/3 IC			09:58	X	X														
STD3 580-65242/4 IC			10:05	X	X														
STD4 580-65242/5 IC			10:12	X	X														
STD5 580-65242/6 IC			10:19	X	X														
ICV 580-65242/7	1		10:41	X	X														
ICB 580-65242/8	1		10:48	X	X														
CRI 580-65242/9	1		11:02	X	X														
ICSA 580-65242/10	1		11:09	X	X														
ICSAB 580-65242/11	1		11:17	X	X														
CCV 580-65242/12	1		11:38	X	X														
CCB 580-65242/13	1		11:45	X	X														
MB 580-65117/21-A	1	R	11:52	X	X														
580-19562-1 SD	5	R	12:00	X	X														
580-19562-1	1	R	12:07	X	X														
580-19562-1 DU	1	R	12:14	X	X														
580-19562-1 MS	50	R	12:21	X	X														
580-19562-1 MSD	50	R	12:28	X	X														
580-19562-1 PDS	50	R	12:35	X	X														
LCS 580-65117/22-A	50	R	12:42	X	X														
LCSD 580-65117/23-A	50	R	12:50	X	X														
LCSSRM 580-65117/24-A	50	R	12:57	X	X														
CCV 580-65242/24	1		13:04	X	X														
CCB 580-65242/25	1		13:11	X	X														
580-19562-2	1	R	13:18	X	X														
580-19562-3	1	R	13:26	X	X														
580-19562-4	1	R	13:33	X	X														
580-19562-5	1	R	13:40	X	X														
580-19562-7	1	R	13:47	X	X														
ZZZZZZ			13:54																
ZZZZZZ			14:01																
ZZZZZZ			14:09																
CCV 580-65242/34	1		14:23	X	X														
CCB 580-65242/35	1		14:30	X	X														
ZZZZZZ			14:37																
ZZZZZZ			14:45																
ZZZZZZ			14:52																
ZZZZZZ			14:59																
ZZZZZZ			15:06																
ZZZZZZ			15:13																
ZZZZZZ			15:20																

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

ICP-MS Instrument ID: SEA044 Start Date: 06/08/2010 End Date: 06/08/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li	Q	Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q
ICV 580-65242/7	10:41	93		93		99		106		102	
ICB 580-65242/8	10:48	93		93		100		107		103	
CRI 580-65242/9	11:02			92		100		108		104	
ICSA 580-65242/10	11:09	70		72		88		91		87	
ICSAB 580-65242/11	11:17	66		67		81		86		80	
CCV 580-65242/12	11:38	72		74		87		98		93	
CCB 580-65242/13	11:45	74		76		90		100		96	
MB 580-65117/21-A	11:52					91		101			
580-19562-1 SD	12:00			72		86		98		93	
580-19562-1	12:07					75		84			
580-19562-1 DU	12:14					73		82			
580-19562-1 MS	12:21					99		108			
580-19562-1 MSD	12:28					103		110			
580-19562-1 PDS	12:35			92		103		111		109	
LCS 580-65117/22-A	12:42					94		104			
LCSD 580-65117/23-A	12:50					95		103			
LCSSRM	12:57					94		104			
CCV 580-65242/24	13:04	80		80		97		105		102	
CCB 580-65242/25	13:11	80		81		96		107		103	
580-19562-2	13:18					76		85			
580-19562-3	13:26					77		85			
580-19562-4	13:33					75		83			
580-19562-5	13:40					76		83			
580-19562-7	13:47					77		85			
CCV 580-65242/34	14:23	79		81		100		108		108	
CCB 580-65242/35	14:30	83		85		104		113		111	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

ICP-MS Instrument ID: SEA044 Start Date: 06/08/2010 End Date: 06/08/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Ge	Q	Element Ge	Q	Element Rh	Q	Element Rh	Q	Element Ho	Q
ICV 580-65242/7	10:41	104		102		102		99		104	
ICB 580-65242/8	10:48	107		102		105		102		105	
CRI 580-65242/9	11:02	107				106		104		104	
ICSA 580-65242/10	11:09	88		86		78		79		91	
ICSAB 580-65242/11	11:17	84		83		75		78		91	
CCV 580-65242/12	11:38	100		94		96		95		103	
CCB 580-65242/13	11:45	102		95		101		100		104	
MB 580-65117/21-A	11:52					102		99		104	
580-19562-1 SD	12:00	103				98		96		103	
580-19562-1	12:07					86		82		96	
580-19562-1 DU	12:14					83		79		94	
580-19562-1 MS	12:21					102		99		103	
580-19562-1 MSD	12:28					104		102		104	
580-19562-1 PDS	12:35	111				104		102		105	
LCS 580-65117/22-A	12:42					101		99		104	
LCSD 580-65117/23-A	12:50					101		98		103	
LCSSRM	12:57					102		98		104	
CCV 580-65242/24	13:04	106		99		100		98		105	
CCB 580-65242/25	13:11	110		98		106		99		105	
580-19562-2	13:18					85		84		98	
580-19562-3	13:26					85		81		95	
580-19562-4	13:33					83		80		95	
580-19562-5	13:40					84		81		95	
580-19562-7	13:47					83		81		94	
CCV 580-65242/34	14:23	109		99		101		97		104	
CCB 580-65242/35	14:30	113		99		106		102		103	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

ICP-MS Instrument ID: SEA044 Start Date: 06/08/2010 End Date: 06/08/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Lu	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
ICV 580-65242/7	10:41	103		99							
ICB 580-65242/8	10:48	103		103							
CRI 580-65242/9	11:02	105									
ICSA 580-65242/10	11:09	91		81							
ICSAB 580-65242/11	11:17	91		81							
CCV 580-65242/12	11:38	101		100							
CCB 580-65242/13	11:45	103		102							
MB 580-65117/21-A	11:52	103									
580-19562-1 SD	12:00	104									
580-19562-1	12:07	97									
580-19562-1 DU	12:14	95									
580-19562-1 MS	12:21	103									
580-19562-1 MSD	12:28	105									
580-19562-1 PDS	12:35	104									
LCS 580-65117/22-A	12:42	104									
LCSD 580-65117/23-A	12:50	104									
LCSSRM	12:57	103									
CCV 580-65242/24	13:04	105		101							
CCB 580-65242/25	13:11	104		105							
580-19562-2	13:18	98									
580-19562-3	13:26	96									
580-19562-4	13:33	96									
580-19562-5	13:40	96									
580-19562-7	13:47	96									
CCV 580-65242/34	14:23	104		100							
CCB 580-65242/35	14:30	104		105							

Metals Worksheet

Batch Number: 580-65117

Method: 3005A

Analyst: Boardway, Peter A

Date Open: Jun 07 2010 11:41AM

Batch End: Jun 07 2010 3:55PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	m-GPS-1_00015	m-GPS-2_00012	m-GPS-3_00013	m-GPS-4_00015
580-19562-H-1	MW3-052410-W	3005A, 6020	R	50 mL	50 mL				
580-19562-H-1~DU	MW3-052410-W	3005A, 6020	R	50 mL	50 mL				
580-19562-H-1~MS	MW3-052410-W	3005A, 6020	R	50 mL	50 mL	1 mL	1 mL	1 mL	1 mL
580-19562-H-1~MSD	MW3-052410-W	3005A, 6020	R	50 mL	50 mL	1 mL	1 mL	1 mL	1 mL
580-19562-H-2	MW18-052410-W	3005A, 6020	R	50 mL	50 mL				
580-19562-H-3	MW16-052410-W	3005A, 6020	R	50 mL	50 mL				
580-19562-H-4	MW8-052410-W	3005A, 6020	R	50 mL	50 mL				
580-19562-H-5	Dupe1-052410-W	3005A, 6020	R	50 mL	50 mL				
580-19562-H-7	MW17-052410-W	3005A, 6020	R	50 mL	50 mL				
580-19582-A-1			R	50 mL	50 mL				
580-19582-A-2			R	50 mL	50 mL				
580-19582-A-3			R	50 mL	50 mL				
580-19747-G-1			R	50 mL	50 mL				
580-19747-G-2			R	50 mL	50 mL				
580-19747-G-3			R	50 mL	50 mL				
580-19747-G-4			R	50 mL	50 mL				
580-19585-A-1			R	50 mL	50 mL				
580-19658-A-3			R	50 mL	50 mL				
580-19658-A-4			R	50 mL	50 mL				
580-19739-F-1			R	50 mL	50 mL				
MB~580-65117/21		3005A, 6020		50 mL	50 mL				
LCS~580-65117/22		3005A, 6020		50 mL	50 mL	1 mL	1 mL	1 mL	1 mL
LCSD~580-65117/23		3005A, 6020		50 mL	50 mL	1 mL	1 mL	1 mL	1 mL
LCSSRM~580-65117/24		3005A, 6020		50 mL	50 mL	1 mL	1 mL	1 mL	1 mL

Metals Worksheet

Batch Number: 580-65117
 Method: 3005A
 Analyst: Boardway, Peter A

Date Open: Jun 07 2010 11:41AM
 Batch End: Jun 07 2010 3:55PM

Lab ID	Client ID	Method Chain	Basis	MS-HgSpk_00008
580-19562-H-1	MW3-052410-W	3005A, 6020	R	
580-19562-H-1~DU	MW3-052410-W	3005A, 6020	R	
580-19562-H-1~MS	MW3-052410-W	3005A, 6020	R	1 mL
580-19562-H-1~MSD	MW3-052410-W	3005A, 6020	R	1 mL
580-19562-H-2	MW18-052410-W	3005A, 6020	R	
580-19562-H-3	MW16-052410-W	3005A, 6020	R	
580-19562-H-4	MW8-052410-W	3005A, 6020	R	
580-19562-H-5	Dupe1-052410-W	3005A, 6020	R	
580-19562-H-7	MW17-052410-W	3005A, 6020	R	
580-19582-A-1			R	
580-19582-A-2			R	
580-19582-A-3			R	
580-19747-G-1			R	
580-19747-G-2			R	
580-19747-G-3			R	
580-19747-G-4			R	
580-19585-A-1			R	
580-19658-A-3			R	
580-19658-A-4			R	
580-19739-F-1			R	
MB~580-65117/21		3005A, 6020		
LCS~580-65117/22		3005A, 6020		1 mL
LCSD~580-65117/23		3005A, 6020		1 mL
LCSSRM~580-65117/24		3005A, 6020		1 mL

Digestion Tube/Cup Lot #: 100121
 Hot Block ID number: 38009
 Hood ID or number: 06
 Lot # of Nitric Acid: H42A18
 Lot # of hydrochloric acid: J10024
 Oven, Bath or Block Temperature 1: 94.9 CORRECTED-TEMP
 ID number of the thermometer: 15-041-1A-A
 Pipette ID: mp1

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job Number: 580-19562-1

SDG No.: _____

Project: 318 State Ave, Olympia, WA

Client Sample ID	Lab Sample ID
<u>MW3-052410-W</u>	<u>580-19562-1</u>
<u>MW18-052410-W</u>	<u>580-19562-2</u>
<u>MW16-052410-W</u>	<u>580-19562-3</u>
<u>MW8-052410-W</u>	<u>580-19562-4</u>
<u>Dupe1-052410-W</u>	<u>580-19562-5</u>
<u>MW17-052410-W</u>	<u>580-19562-7</u>

Comments:

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: MW3-052410-W

Lab Sample ID: 580-19562-1

Lab Name: TestAmerica Tacoma

Job No.: 580-19562-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/24/2010 08:00

Reporting Basis: WET

Date Received: 05/26/2010 16:05

CAS No.	Analyte	Conc.	RL		Units	C	Q	DIL	Method
14808-79-8	Sulfate	7.5	1.2		mg/L			1	300.0

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: MW18-052410-W

Lab Sample ID: 580-19562-2

Lab Name: TestAmerica Tacoma

Job No.: 580-19562-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/24/2010 09:20

Reporting Basis: WET

Date Received: 05/26/2010 16:05

CAS No.	Analyte	Conc.	RL		Units	C	Q	DIL	Method
14808-79-8	Sulfate	34	2.4		mg/L			2	300.0

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: MW16-052410-W

Lab Sample ID: 580-19562-3

Lab Name: TestAmerica Tacoma

Job No.: 580-19562-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/24/2010 10:34

Reporting Basis: WET

Date Received: 05/26/2010 16:05

CAS No.	Analyte	Conc.	RL		Units	C	Q	DIL	Method
14808-79-8	Sulfate	20	2.4		mg/L			2	300.0

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: MW8-052410-W

Lab Sample ID: 580-19562-4

Lab Name: TestAmerica Tacoma

Job No.: 580-19562-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/24/2010 12:10

Reporting Basis: WET

Date Received: 05/26/2010 16:05

CAS No.	Analyte	Conc.	RL		Units	C	Q	DIL	Method
14808-79-8	Sulfate	10	1.2		mg/L			1	300.0

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: Dupe1-052410-W

Lab Sample ID: 580-19562-5

Lab Name: TestAmerica Tacoma

Job No.: 580-19562-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/24/2010 00:00

Reporting Basis: WET

Date Received: 05/26/2010 16:05

CAS No.	Analyte	Conc.	RL		Units	C	Q	DIL	Method
14808-79-8	Sulfate	10	1.2		mg/L			1	300.0

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: MW17-052410-W

Lab Sample ID: 580-19562-7

Lab Name: TestAmerica Tacoma

Job No.: 580-19562-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/24/2010 14:20

Reporting Basis: WET

Date Received: 05/26/2010 16:05

CAS No.	Analyte	Conc.	RL		Units	C	Q	DIL	Method
14808-79-8	Sulfate	31	2.4		mg/L			2	300.0

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Analyst: KT Batch Start Date: 05/27/2010
 Reporting Units: mg/L Analytical Batch No.: 64608

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	15:07	Sulfate	5.87	6.00	98	90-110		IC-2 ICV/LCS_00004
2	ICB	15:23	Sulfate	ND					
10	CCV	18:26	Sulfate	6.02	6.00	100	90-110		IC-2 CCV_00002
11	CCB	18:43	Sulfate	ND					
18	CCV	20:39	Sulfate	6.02	6.00	100	90-110		IC-2 CCV_00002
19	CCB	20:56	Sulfate	ND					

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

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 64608 Date: 05/27/2010 15:40							
300.0	MB 580-64608/3	Sulfate	ND		mg/L	1.2	1

5-IN
 MATRIX SPIKE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1
 SDG No.: _____
 Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 64608 Date: 05/27/2010 16:46											
300.0	580-19562-1	Sulfate	7.5		mg/L						
300.0	580-19562-1	Sulfate	13.1		mg/L	6.00	94	80-120			
	MS										

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

6-IN
 DUPLICATE
 GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 64608		Date: 05/27/2010 16:30						
300.0	MW3-052410-W	580-19562-1	Sulfate	7.5	mg/L			
300.0	MW3-052410-W	580-19562-1 DU	Sulfate	7.41	mg/L	1	20	

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

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 64608		Date: 05/27/2010 15:57									
						LCS Source: IC-2 ICV/LCS_00004					
300.0	LCS 580-64608/4	Sulfate	5.82		mg/L	6.00	97	90-110			

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

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job Number: 580-19562-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Analysis Method: 300.0 RL Date: 09/24/2009 08:59
Prep Method: _____
Leach Method: _____

Analyte	Wavelength/ Mass	RL (mg/L)	
Sulfate		1.2	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job No.: 580-19562-1

SDG No.: _____

Instrument ID: NOEQUIP Method: 300.0

Start Date: 05/27/2010 15:07 End Date: 05/27/2010 20:56

Lab Sample ID	D / F	T y p e	Time	Analytes															
				S O 4															
ICV 580-64608/1	1		15:07	X															
ICB 580-64608/2	1		15:23	X															
MB 580-64608/3	1	T	15:40	X															
LCS 580-64608/4	1	T	15:57	X															
580-19562-1	1	T	16:13	X															
580-19562-1 DU	1	T	16:30	X															
580-19562-1 MS	1	T	16:46	X															
580-19562-4	1	T	17:36	X															
580-19562-5	1	T	17:53	X															
CCV 580-64608/10	1		18:26	X															
CCB 580-64608/11	1		18:43	X															
ZZZZZZ			19:00																
ZZZZZZ			19:16																
ZZZZZZ			19:33																
580-19562-2	2	T	19:49	X															
580-19562-3	2	T	20:06	X															
580-19562-7	2	T	20:23	X															
CCV 580-64608/18	1		20:39	X															
CCB 580-64608/19	1		20:56	X															

Prep Types

T = Total/NA

General Chemistry Worksheet

Batch Number: 580-64608

Date Open: May 27 2010 3:07PM

Method: 300.0

Batch End: May 27 2010 8:56PM

Analyst: Teffeau, Kristine

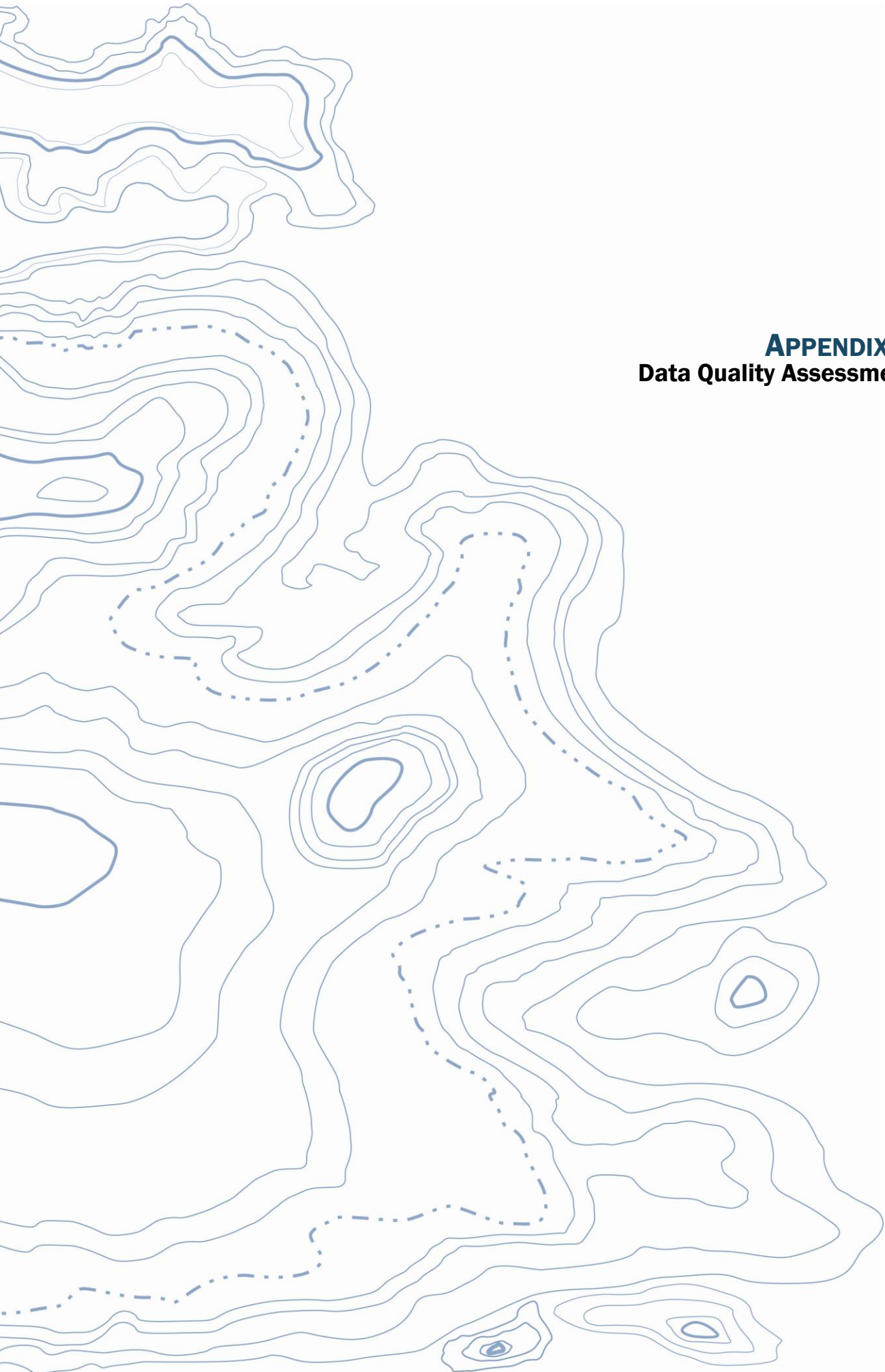
Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	IC-2 CCV_00002	IC-2 ICV/LCS_00004
ICV~580-64608/1		300.0		5 mL	5 mL		5 mL
ICB~580-64608/2		300.0		5 mL	5 mL		
MB~580-64608/3		300.0		5 mL	5 mL		
LCS~580-64608/4		300.0		5 mL	5 mL		5 mL
580-19562-G-1	MW3-052410-W	300.0	T	5 mL	5 mL		
580-19562-G-1~DU	MW3-052410-W	300.0	T	5 mL	5 mL		
580-19562-G-1~MS	MW3-052410-W	300.0	T	5 mL	5 mL		5 mL
580-19562-G-4	MW8-052410-W	300.0	T	5 mL	5 mL		
580-19562-G-5	Dupe1-052410-W	300.0	T	5 mL	5 mL		
CCV~580-64608/10		300.0		5 mL	5 mL	5 mL	
CCB~580-64608/11		300.0		5 mL	5 mL		
580-19582-B-1			T	5 mL	5 mL		
580-19582-B-2			T	5 mL	5 mL		
580-19582-B-3			T	5 mL	5 mL		
580-19562-G-2	MW18-052410-W	300.0	T	2.5 mL	5 mL		
580-19562-G-3	MW16-052410-W	300.0	T	2.5 mL	5 mL		
580-19562-G-7	MW17-052410-W	300.0	T	2.5 mL	5 mL		
CCV~580-64608/18		300.0		5 mL	5 mL	5 mL	
CCB~580-64608/19		300.0		5 mL	5 mL		

Filter Lot #: roba88275

Eluent 1 Lot: 090721

Regeneration Solution Lot: na

Ethylenediamine Lot: na



APPENDIX C
Data Quality Assessment

DATA QUALITY ASSESSMENT SUMMARY
VOLATILE ORGANIC COMPOUNDS BY METHOD SW8260,
CPAHS BY METHOD SW8270-SIM,
PCBs BY METHOD SW8082,
SULFATE ANIONS BY METHOD SW300.0,
TOTAL ARSENIC AND LEAD BY METHOD SW6020
TOTAL PETROLEUM HYDROCARBONS BY METHODS NWTPH-GX AND NWTPH-DX

TestAmerica Laboratory SDG	Samples Validated (Bold indicates the sample was qualified)
580-19562-1	MW3-052410-W, MW18-052410-W, MW16-052410-W, MW8-052410-W, Dupe1-052410-W, Trip Blank, and MW17-052410-W
580-19582-1	MW4-052510-W, MW9-052510-W, MW13-052510-W, Trip Blank

PROJECT: 318 CITY OF OLYMPIA (0415-049-06)

This report documents the results of an EPA level 2a data validation of analytical data from the analyses of groundwater samples and the associated laboratory and field quality control (QC) samples. The review included the following:

- Chain of Custody
- Holding Times
- Surrogates
- Method and Trip Blanks
- Laboratory Control Samples
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory and Field Duplicates
- Interference Check Standards (as referenced in the laboratory case narrative)

DATA PACKAGE COMPLETENESS

TestAmerica, located in Tacoma, Washington, analyzed the groundwater samples evaluated as part of this data validation review. The laboratory provided all required deliverables for the validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and all identified anomalies were discussed in the case narrative.

The following sections discuss the data. Based on the review, qualification of the laboratory data was performed in association with a holding time outlier and interference check sample contamination.

OBJECTIVE

The objective of the data validation was to review laboratory analytical procedures and quality control (QC) results to evaluate whether:

- The samples were analyzed using well-defined and acceptable methods that provide detection limits below applicable regulatory criteria;
- The precision and accuracy of the data are well defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

Eight (8) groundwater samples, one field duplicate, and two Trip Blanks were analyzed by one or more of the analytical methods listed in the title of this appendix:

DATA QUALITY ASSESSMENT SUMMARY

The results for each of the QC elements are summarized below. The data assessment was performed using guidance in the USEPA Contract Laboratory Program *National Functional Guidelines for Inorganic Data Review* (USEPA 2002) and USEPA Contract Laboratory Program *National Functional Guidelines for Organic Data Review* (USEPA 2008).

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. There were no anomalies noted on the COC forms; proper COC protocols appear to have been followed for this sampling event.

Holding Times

The holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for all analyses, with the following exceptions:

Sample MW17-052410-W. VOCs. The prescribed holding time of 14 days was exceeded by 9 hours for this analysis. The positive results and reporting limits were qualified as estimated (J/UJ) in this sample.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to all samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added at a known concentration and percent recoveries are calculated following analysis. All surrogate recoveries for field samples were within the laboratory control limits.

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. Method blanks were analyzed with each batch of samples, at a frequency of one per twenty samples. For all sample batches, method blanks for all applicable methods were analyzed at the required frequency. None of the analytes of interest were detected above the reporting limits in any of the method blanks.

Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

Because the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis. One aliquot of sample is



analyzed in the normal manner, and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery (%R) is calculated. Matrix spike duplicates (MSD) analyses are generally performed for organic analyses as a precision check. For some organic analytical methods, such as NWTPH-Dx, a laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) sample set is performed in lieu of a MS/MSD analysis.

For inorganics methods, the matrix spike (referred to as a “spiked sample”) is typically followed by a post spike sample if any element recoveries were outside the control limits in the “spike sample”. In this case, it was not necessary to analyze a post spike sample as there were no positive results in the “spiked sample”.

Matrix spike analyses should be performed once per analytical batch or every twenty field samples, whichever is more frequent. The recovery criteria for matrix spikes and laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The frequency requirements were met for all analyses and the %R/RPD values were within the proper control limits.

Laboratory Control Samples/ Laboratory Control Sample Duplicates (LCS/LCSD)

A laboratory control sample is essentially a blank sample that is spiked with a known amount of analyte concentration and analyzed. It is to be treated much like a matrix spike, without the possibility for matrix interference. As there is no actual sample matrix in the analysis, the analytical expectations for accuracy and precision are usually more rigorous and qualification would apply to all samples in the batch, instead of the parent sample only.

Laboratory control sample analyses should be performed once per analytical batch or every twenty field samples, whichever is more frequent. The recovery criteria for laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The frequency requirements were met for all analyses, and the %R/RPD values were within the proper control limits.

Laboratory Duplicates (Metals and Anions only)

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory, and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD.

Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met in all cases.

Field Replicates/Duplicates

Field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. As mentioned above for the laboratory duplicates the RPD is used as the criteria for assessing precision, unless one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD.

Sample Dupe1-052410-W: This sample was a field duplicate of Sample MW8-052410-W. All RPD and absolute difference values were within the control limits.

Interference Check Standard

The metals ICP/MS analysis requires the use of an interference check sample which verifies the instruments ability to overcome isobaric interferences (unrelated ions with the same mass as the target ions) typical of those found in environmental samples. The check standard consists of two solutions which are to be analyzed consecutively before every analytical batch. The purpose of the first solution is to determine whether any unspiked interferences exist in the analysis, the purpose of the second solution

is to determine whether the accuracy of the instrumentation is consistent with a known spiked concentration of a target analyte.

All Samples: The laboratory found that the first solution described above exhibited trace amounts of contamination for arsenic. The percent recovery (%R) of the second solution was within the control limits for all analytical batches. There were positive results for arsenic in all samples included in this sampling event. All positive results for arsenic were qualified as estimated (J) to signify a potential high bias.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values. Precision was acceptable, as demonstrated by the field duplicate, laboratory duplicate, LCS/LCSD and MS/MSD RPD and absolute difference values.

Data were qualified as estimated because of holding time and interference check standard outliers.

In general, the data are acceptable for use as qualified.

