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ANALYTICAL REPORT

Job Number: 180-61122-1

Job Description: U.S. Oil Recovery Superfund Site

For:
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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
W	PS: Post-digestion spike was outside control limits
V	Serial Dilution exceeds the control limits
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

CASE NARRATIVE

Client: EA Engineering, Science, and Technology

Project: U.S. Oil Recovery Superfund Site

Report Number: 180-61122-1

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

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

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

RECEIPT
The samples were received on 11/23/2016 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5° C.

SEMIVOLATILES
The following sample was diluted due to the nature of the sample matrix: BGSB10-(0.0-0.5)-161122-S (180-61122-3) and BGSB10-(1-2) -161122-S (180-61122-4). Elevated reporting limits (RLs) are provided.

3,3'-Dichlorobenzidine, Caprolactam and Hexachlorocyclopentadiene failed the recovery criteria low for the MS/MSD of sample BGSB22-(0.0-0.5)-161122-SMS (180-61122-1) in batch 180-195402.

PESTICIDES
The following samples were diluted due to the nature of the sample matrix: BGSB22-(0.0-0.5)-161122-S (180-61122-1), BGSB22-(1-2) -161122-S (180-61122-2), BGSB10-(0.0-0.5)-161122-S (180-61122-3) and BGSB10-(1-2)-161122-S (180-61122-4). Elevated reporting limits (RLs) are provided. Sample extracts were dark yellow in color.

DCB Decachlorobiphenyl (Surr) failed the surrogate recovery criteria high for BGSB10-(0.0-0.5)-161122-S (180-61122-3) and BGSB10-(1-2)-161122-S (180-61122-4). At least one surrogate recovered within QC limits. All data was reported.

CHLORINATED HERBICIDES
The laboratory control sample (LCS) for 195524 recovered outside control limits for the following analytes: 2,4,5-T, 2,4-D, 2,4-DB, Dinoseb, MCPA, MCPP and Silvex (2,4,5-TP). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 195866 recovered above the upper control limit for 2,4,5-T, MCPA and MCPP. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

METALS
Several analytes failed the recovery criteria low for the MS/MSD of sample BGSB22-(0.0-0.5)-161122-S (180-61122-1) in batch 180-196391. Aluminum failed the recovery criteria high. The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

The serial dilution performed for the following sample associated with batch 195582 was outside control limits for beryllium: BGSB22-(0.0-0.5)-161122-S (180-61122-1)

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

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: U.S. Oil Recovery Superfund Site

TestAmerica Job ID: 180-61122-1

Client Sample ID: BGSB22-(0.0-0.5)-161122-S — Lab Sample ID: 180-61122-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.00137	J	0.00724	0.000648	mg/Kg	1	☼	8270D LL	Total/NA
Acenaphthylene	0.00396	J	0.00724	0.000826	mg/Kg	1	☼	8270D LL	Total/NA
Acetophenone	0.0169	J	0.0357	0.00296	mg/Kg	1	☼	8270D LL	Total/NA
Anthracene	0.00362	J	0.00724	0.000705	mg/Kg	1	☼	8270D LL	Total/NA
Benzaldehyde	0.00751	J	0.0357	0.00540	mg/Kg	1	☼	8270D LL	Total/NA
Benzo[a]anthracene	0.0140		0.00724	0.000903	mg/Kg	1	☼	8270D LL	Total/NA
Benzo[b]fluoranthene	0.0202		0.00724	0.00113	mg/Kg	1	☼	8270D LL	Total/NA
Benzo[k]fluoranthene	0.00857		0.00724	0.00146	mg/Kg	1	☼	8270D LL	Total/NA
Benzo[g,h,i]perylene	0.0165		0.00724	0.000717	mg/Kg	1	☼	8270D LL	Total/NA
Benzo[a]pyrene	0.0132		0.00724	0.000721	mg/Kg	1	☼	8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	0.0310	J	0.0721	0.00582	mg/Kg	1	☼	8270D LL	Total/NA
Butyl benzyl phthalate	0.00591	J	0.0357	0.00493	mg/Kg	1	☼	8270D LL	Total/NA
Carbazole	0.00176	J	0.00724	0.000664	mg/Kg	1	☼	8270D LL	Total/NA
Dibenz(a,h)anthracene	0.00336	J	0.00724	0.000802	mg/Kg	1	☼	8270D LL	Total/NA
Di-n-butyl phthalate	0.00485	J	0.0357	0.00452	mg/Kg	1	☼	8270D LL	Total/NA
Fluoranthene	0.0179		0.00724	0.000771	mg/Kg	1	☼	8270D LL	Total/NA
Indeno[1,2,3-cd]pyrene	0.0118		0.00724	0.000743	mg/Kg	1	☼	8270D LL	Total/NA
Phenanthrene	0.00554	J	0.00724	0.00115	mg/Kg	1	☼	8270D LL	Total/NA
Pyrene	0.0168		0.00724	0.000729	mg/Kg	1	☼	8270D LL	Total/NA
4,4'-DDD	0.000472	p	0.000450	0.0000459	mg/Kg	5	☼	8081B_LL	Total/NA
4,4'-DDE	0.00500	p	0.000450	0.000143	mg/Kg	5	☼	8081B_LL	Total/NA
4,4'-DDT	0.00420	p	0.000450	0.0000459	mg/Kg	5	☼	8081B_LL	Total/NA
Heptachlor	0.000251	J p	0.000450	0.0000389	mg/Kg	5	☼	8081B_LL	Total/NA
Heptachlor epoxide	0.000906	p	0.000450	0.0000540	mg/Kg	5	☼	8081B_LL	Total/NA
Silver	0.0592	J	0.106	0.00866	mg/Kg	1	☼	6020A	Total/NA
Aluminum	5750		3.17	0.609	mg/Kg	1	☼	6020A	Total/NA
Arsenic	3.01	F1	0.106	0.0152	mg/Kg	1	☼	6020A	Total/NA
Boron	3.01		2.11	0.337	mg/Kg	1	☼	6020A	Total/NA
Barium	140	F1	1.06	0.0156	mg/Kg	1	☼	6020A	Total/NA
Beryllium	0.430		0.106	0.00792	mg/Kg	1	☼	6020A	Total/NA
Cadmium	0.294		0.106	0.0137	mg/Kg	1	☼	6020A	Total/NA
Cobalt	7.81		0.0528	0.00264	mg/Kg	1	☼	6020A	Total/NA
Chromium	7.50		0.211	0.0551	mg/Kg	1	☼	6020A	Total/NA
Copper	10.1		0.211	0.0550	mg/Kg	1	☼	6020A	Total/NA
Manganese	404		0.528	0.0375	mg/Kg	1	☼	6020A	Total/NA
Nickel	6.57		0.106	0.0411	mg/Kg	1	☼	6020A	Total/NA
Lead	67.5		0.106	0.00961	mg/Kg	1	☼	6020A	Total/NA
Antimony	0.379	F1	0.211	0.0303	mg/Kg	1	☼	6020A	Total/NA
Selenium	0.512	J	0.528	0.0467	mg/Kg	1	☼	6020A	Total/NA
Vanadium	17.9		0.106	0.0739	mg/Kg	1	☼	6020A	Total/NA
Zinc	110	F1	0.528	0.204	mg/Kg	1	☼	6020A	Total/NA
Thallium	0.0623	J	0.106	0.00275	mg/Kg	1	☼	6020A	Total/NA
Mercury	0.0660		0.0359	0.00804	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BGSB22-(1-2)-161122-S — Lab Sample ID: 180-61122-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.0529	J	0.106	0.00873	mg/Kg	1	☼	6020A	Total/NA
Aluminum	24800		3.19	0.614	mg/Kg	1	☼	6020A	Total/NA
Arsenic	11.2		0.106	0.0153	mg/Kg	1	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BGSB22-(1-2)-161122-S (Continued) — Lab Sample ID: 180-61122-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	7.36		2.13	0.339	mg/Kg	1	☼	6020A	Total/NA
Barium	486		1.06	0.0158	mg/Kg	1	☼	6020A	Total/NA
Beryllium	2.48		0.106	0.00799	mg/Kg	1	☼	6020A	Total/NA
Cadmium	0.425		0.106	0.0138	mg/Kg	1	☼	6020A	Total/NA
Cobalt	97.5		0.0532	0.00266	mg/Kg	1	☼	6020A	Total/NA
Chromium	26.4		0.213	0.0556	mg/Kg	1	☼	6020A	Total/NA
Copper	18.5		0.213	0.0555	mg/Kg	1	☼	6020A	Total/NA
Manganese	7470		5.32	0.378	mg/Kg	10	☼	6020A	Total/NA
Nickel	95.6		0.106	0.0414	mg/Kg	1	☼	6020A	Total/NA
Lead	107		0.106	0.00969	mg/Kg	1	☼	6020A	Total/NA
Antimony	0.419		0.213	0.0306	mg/Kg	1	☼	6020A	Total/NA
Selenium	2.60		0.532	0.0471	mg/Kg	1	☼	6020A	Total/NA
Vanadium	99.6		0.106	0.0745	mg/Kg	1	☼	6020A	Total/NA
Zinc	37.1		0.532	0.206	mg/Kg	1	☼	6020A	Total/NA
Thallium	0.325		0.106	0.00277	mg/Kg	1	☼	6020A	Total/NA
Mercury	0.00927	J	0.0404	0.00906	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BGSB10-(0.0-0.5)-161122-S — Lab Sample ID: 180-61122-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0170	J	0.0728	0.00697	mg/Kg	10	☼	8270D LL	Total/NA
Acenaphthylene	0.0222	J	0.0728	0.00831	mg/Kg	10	☼	8270D LL	Total/NA
Anthracene	0.0631	J	0.0728	0.00710	mg/Kg	10	☼	8270D LL	Total/NA
Benzo[a]anthracene	0.712		0.0728	0.00909	mg/Kg	10	☼	8270D LL	Total/NA
Benzo[b]fluoranthene	1.22		0.0728	0.0114	mg/Kg	10	☼	8270D LL	Total/NA
Benzo[k]fluoranthene	0.424		0.0728	0.0147	mg/Kg	10	☼	8270D LL	Total/NA
Benzo[g,h,i]perylene	0.851		0.0728	0.00722	mg/Kg	10	☼	8270D LL	Total/NA
Benzo[a]pyrene	0.811		0.0728	0.00726	mg/Kg	10	☼	8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	0.134	J	0.725	0.0586	mg/Kg	10	☼	8270D LL	Total/NA
Carbazole	0.0664	J	0.0728	0.00668	mg/Kg	10	☼	8270D LL	Total/NA
Dibenz(a,h)anthracene	0.206		0.0728	0.00807	mg/Kg	10	☼	8270D LL	Total/NA
Fluoranthene	1.54		0.0728	0.00776	mg/Kg	10	☼	8270D LL	Total/NA
Indeno[1,2,3-cd]pyrene	0.710		0.0728	0.00747	mg/Kg	10	☼	8270D LL	Total/NA
Phenanthrene	0.375		0.0728	0.0115	mg/Kg	10	☼	8270D LL	Total/NA
Pyrene	1.09		0.0728	0.00733	mg/Kg	10	☼	8270D LL	Total/NA
Aldrin	0.000148	J	0.000459	0.0000485	mg/Kg	5	☼	8081B_LL	Total/NA
cis-Chlordane	0.00115	p	0.000459	0.0000738	mg/Kg	5	☼	8081B_LL	Total/NA
4,4'-DDD	0.000970		0.000459	0.0000468	mg/Kg	5	☼	8081B_LL	Total/NA
Dieldrin	0.00140	p	0.000459	0.0000435	mg/Kg	5	☼	8081B_LL	Total/NA
Heptachlor epoxide	0.000183	J p	0.000459	0.0000551	mg/Kg	5	☼	8081B_LL	Total/NA
Silver	0.0945		0.0874	0.00717	mg/Kg	1	☼	6020A	Total/NA
Aluminum	9360		2.62	0.504	mg/Kg	1	☼	6020A	Total/NA
Arsenic	2.94		0.0874	0.0126	mg/Kg	1	☼	6020A	Total/NA
Boron	5.83		1.75	0.279	mg/Kg	1	☼	6020A	Total/NA
Barium	109		0.874	0.0129	mg/Kg	1	☼	6020A	Total/NA
Beryllium	0.608		0.0874	0.00656	mg/Kg	1	☼	6020A	Total/NA
Cadmium	0.204		0.0874	0.0114	mg/Kg	1	☼	6020A	Total/NA
Cobalt	5.56		0.0437	0.00219	mg/Kg	1	☼	6020A	Total/NA
Chromium	14.3		0.175	0.0456	mg/Kg	1	☼	6020A	Total/NA
Copper	13.0		0.175	0.0456	mg/Kg	1	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BGSB10-(0.0-0.5)-161122-S (Continued) — Lab Sample ID: 180-61122-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	215		0.437	0.0310	mg/Kg	1	☼	6020A	Total/NA
Nickel	10.2		0.0874	0.0340	mg/Kg	1	☼	6020A	Total/NA
Lead	40.5		0.0874	0.00796	mg/Kg	1	☼	6020A	Total/NA
Antimony	0.410		0.175	0.0251	mg/Kg	1	☼	6020A	Total/NA
Selenium	0.482		0.437	0.0386	mg/Kg	1	☼	6020A	Total/NA
Vanadium	19.0		0.0874	0.0612	mg/Kg	1	☼	6020A	Total/NA
Zinc	82.5		0.437	0.169	mg/Kg	1	☼	6020A	Total/NA
Thallium	0.0915		0.0874	0.00227	mg/Kg	1	☼	6020A	Total/NA
Mercury	0.0294	J	0.0358	0.00801	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: BGSB10-(1-2)-161122-S — Lab Sample ID: 180-61122-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.00638	J	0.0369	0.00330	mg/Kg	5	☼	8270D LL	Total/NA
Acenaphthene	0.00775	J	0.0369	0.00353	mg/Kg	5	☼	8270D LL	Total/NA
Acenaphthylene	0.0147	J	0.0369	0.00421	mg/Kg	5	☼	8270D LL	Total/NA
Anthracene	0.0383		0.0369	0.00359	mg/Kg	5	☼	8270D LL	Total/NA
Benzo[a]anthracene	0.299		0.0369	0.00460	mg/Kg	5	☼	8270D LL	Total/NA
Benzo[b]fluoranthene	0.449		0.0369	0.00577	mg/Kg	5	☼	8270D LL	Total/NA
Benzo[k]fluoranthene	0.195		0.0369	0.00742	mg/Kg	5	☼	8270D LL	Total/NA
Benzo[g,h,i]perylene	0.312		0.0369	0.00365	mg/Kg	5	☼	8270D LL	Total/NA
Benzo[a]pyrene	0.319		0.0369	0.00367	mg/Kg	5	☼	8270D LL	Total/NA
Bis(2-ethylhexyl) phthalate	0.118	J	0.367	0.0297	mg/Kg	5	☼	8270D LL	Total/NA
Butyl benzyl phthalate	0.0473	J	0.182	0.0251	mg/Kg	5	☼	8270D LL	Total/NA
Carbazole	0.0244	J	0.0369	0.00338	mg/Kg	5	☼	8270D LL	Total/NA
Dibenz(a,h)anthracene	0.0783		0.0369	0.00408	mg/Kg	5	☼	8270D LL	Total/NA
Fluoranthene	0.600		0.0369	0.00393	mg/Kg	5	☼	8270D LL	Total/NA
Indeno[1,2,3-cd]pyrene	0.268		0.0369	0.00378	mg/Kg	5	☼	8270D LL	Total/NA
Phenanthrene	0.173		0.0369	0.00584	mg/Kg	5	☼	8270D LL	Total/NA
Pyrene	0.417		0.0369	0.00371	mg/Kg	5	☼	8270D LL	Total/NA
Aldrin	0.0000811	J	0.000459	0.0000484	mg/Kg	5	☼	8081B_LL	Total/NA
cis-Chlordane	0.000621	p	0.000459	0.0000738	mg/Kg	5	☼	8081B_LL	Total/NA
4,4'-DDD	0.000319	J p	0.000459	0.0000468	mg/Kg	5	☼	8081B_LL	Total/NA
Dieldrin	0.000899		0.000459	0.0000435	mg/Kg	5	☼	8081B_LL	Total/NA
Silver	0.384		0.109	0.00894	mg/Kg	1	☼	6020A	Total/NA
Aluminum	9720		3.27	0.629	mg/Kg	1	☼	6020A	Total/NA
Arsenic	2.72		0.109	0.0157	mg/Kg	1	☼	6020A	Total/NA
Boron	6.22		2.18	0.347	mg/Kg	1	☼	6020A	Total/NA
Barium	110		1.09	0.0161	mg/Kg	1	☼	6020A	Total/NA
Beryllium	0.615		0.109	0.00818	mg/Kg	1	☼	6020A	Total/NA
Cadmium	0.306		0.109	0.0142	mg/Kg	1	☼	6020A	Total/NA
Cobalt	4.65		0.0545	0.00273	mg/Kg	1	☼	6020A	Total/NA
Chromium	14.4		0.218	0.0569	mg/Kg	1	☼	6020A	Total/NA
Copper	10.6		0.218	0.0568	mg/Kg	1	☼	6020A	Total/NA
Manganese	217		0.545	0.0387	mg/Kg	1	☼	6020A	Total/NA
Nickel	10.0		0.109	0.0424	mg/Kg	1	☼	6020A	Total/NA
Lead	89.5		0.109	0.00992	mg/Kg	1	☼	6020A	Total/NA
Antimony	0.473		0.218	0.0313	mg/Kg	1	☼	6020A	Total/NA
Selenium	0.290	J	0.545	0.0482	mg/Kg	1	☼	6020A	Total/NA
Vanadium	17.8		0.109	0.0763	mg/Kg	1	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BGSB10-(1-2)-161122-S (Continued) Lab Sample ID: 180-61122-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	76.9		0.545	0.211	mg/Kg	1	☼	6020A	Total/NA
Thallium	0.0944	J	0.109	0.00283	mg/Kg	1	☼	6020A	Total/NA
Mercury	0.0711		0.0307	0.00688	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: BGSB22-(0.0-0.5)-161122-S
Date Collected: 11/22/16 09:35
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-1
Matrix: Solid
Percent Solids: 91.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.00322	U	0.0357	0.00322	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
1,4-Dioxane	0.00413	U	0.0721	0.00413	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
1-Methylnaphthalene	0.000769	U	0.00724	0.000769	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
1,2,4,5-Tetrachlorobenzene	0.00273	U	0.0357	0.00273	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
2-Chloronaphthalene	0.000752	U	0.00724	0.000752	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
2-Chlorophenol	0.00295	U	0.0357	0.00295	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
2,4-Dichlorophenol	0.000723	U	0.00724	0.000723	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
2,4-Dimethylphenol	0.00564	U	0.0357	0.00564	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
2,4-Dinitrophenol	0.0429	U	0.184	0.0429	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
2,4-Dinitrotoluene	0.00291	U	0.0357	0.00291	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
2,6-Dinitrotoluene	0.00372	U	0.0357	0.00372	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
2-Methylnaphthalene	**0.00137**	**J**	0.00724	0.000648	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
2-Methylphenol	0.00252	U	0.0357	0.00252	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Methylphenol, 3 & 4	0.00353	U	0.0357	0.00353	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
2-Nitroaniline	0.0161	U	0.184	0.0161	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
3-Nitroaniline	0.0148	U	0.184	0.0148	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
4-Nitroaniline	0.0146	U	0.184	0.0146	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
2-Nitrophenol	0.00397	U	0.0357	0.00397	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
4-Nitrophenol	0.0131	U	0.184	0.0131	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
2,2'-oxybis[1-chloropropane]	0.000778	U	0.00724	0.000778	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
2,3,4,6-Tetrachlorophenol	0.00232	U	0.0357	0.00232	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
2,4,5-Trichlorophenol	0.00385	U	0.0357	0.00385	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
2,4,6-Trichlorophenol	0.00540	U	0.0357	0.00540	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
4-Chloro-3-methylphenol	0.00332	U	0.0357	0.00332	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
4-Chlorophenyl phenyl ether	0.00401	U	0.0357	0.00401	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
4,6-Dinitro-2-methylphenol	0.0145	U	0.184	0.0145	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Acenaphthene	0.000692	U	0.00724	0.000692	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Acenaphthylene	**0.00396**	**J**	0.00724	0.000826	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Acetophenone	**0.0169**	**J**	0.0357	0.00296	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Anthracene	**0.00362**	**J**	0.00724	0.000705	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Atrazine	0.00351	U	0.0357	0.00351	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Benzaldehyde	**0.00751**	**J**	0.0357	0.00540	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Benzo[a]anthracene	**0.0140**		0.00724	0.000903	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Benzo[b]fluoranthene	**0.0202**		0.00724	0.00113	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Benzo[k]fluoranthene	**0.00857**		0.00724	0.00146	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Benzo[g,h,i]perylene	**0.0165**		0.00724	0.000717	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Benzo[a]pyrene	**0.0132**		0.00724	0.000721	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Bis(2-chloroethoxy)methane	0.00237	U	0.0357	0.00237	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Bis(2-chloroethyl)ether	0.000967	U	0.00724	0.000967	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Bis(2-ethylhexyl) phthalate	**0.0310**	**J**	0.0721	0.00582	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
4-Bromophenyl phenyl ether	0.00314	U	0.0357	0.00314	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Butyl benzyl phthalate	**0.00591**	**J**	0.0357	0.00493	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Caprolactam	0.0272	U F1	0.184	0.0272	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Carbazole	**0.00176**	**J**	0.00724	0.000664	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Dibenz(a,h)anthracene	**0.00336**	**J**	0.00724	0.000802	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Dibenzofuran	0.00355	U	0.0357	0.00355	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Di-n-butyl phthalate	**0.00485**	**J**	0.0357	0.00452	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Di-n-octyl phthalate	0.00380	U	0.0357	0.00380	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Diethyl phthalate	0.00394	U	0.0357	0.00394	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Client Sample ID: BGSB22-(0.0-0.5)-161122-S
Date Collected: 11/22/16 09:35
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-1
Matrix: Solid
Percent Solids: 91.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	0.00393	U	0.0357	0.00393	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Fluoranthene	**0.0179**		0.00724	0.000771	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Fluorene	0.000950	U	0.00724	0.000950	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Hexachlorobenzene	0.000768	U	0.00724	0.000768	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Hexachlorobutadiene	0.000807	U	0.00724	0.000807	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Hexachlorocyclopentadiene	0.00389	U F1	0.0357	0.00389	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Hexachloroethane	0.00259	U	0.0357	0.00259	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Indeno[1,2,3-cd]pyrene	**0.0118**		0.00724	0.000743	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Isophorone	0.00272	U	0.0357	0.00272	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Naphthalene	0.000621	U	0.00724	0.000621	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Nitrobenzene	0.00300	U	0.0721	0.00300	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
N-Nitrosodiphenylamine	0.00334	U	0.0357	0.00334	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
N-Nitrosodi-n-propylamine	0.000845	U	0.00724	0.000845	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Pentachlorophenol	0.00322	U	0.0357	0.00322	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Phenanthrene	**0.00554**	**J**	0.00724	0.00115	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Phenol	0.000852	U	0.0357	0.000852	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
Pyrene	**0.0168**		0.00724	0.000729	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1
3,3'-Dichlorobenzidine	0.00381	U F1	0.0357	0.00381	mg/Kg	☼	11/25/16 02:15	11/25/16 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*42 - 100*	*11/25/16 02:15*	*11/25/16 18:33*	*1*
2-Fluorophenol (Surr)	*57*		*21 - 107*	*11/25/16 02:15*	*11/25/16 18:33*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*20 - 134*	*11/25/16 02:15*	*11/25/16 18:33*	*1*
Nitrobenzene-d5 (Surr)	*61*		*35 - 109*	*11/25/16 02:15*	*11/25/16 18:33*	*1*
Phenol-d5 (Surr)	*61*		*29 - 105*	*11/25/16 02:15*	*11/25/16 18:33*	*1*
Terphenyl-d14 (Surr)	*64*		*36 - 113*	*11/25/16 02:15*	*11/25/16 18:33*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: BGSB22-(1-2)-161122-S
Date Collected: 11/22/16 09:40
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-2
Matrix: Solid
Percent Solids: 80.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.00366	U	0.0406	0.00366	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
1,4-Dioxane	0.00470	U	0.0820	0.00470	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
1-Methylnaphthalene	0.000875	U	0.00824	0.000875	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
1,2,4,5-Tetrachlorobenzene	0.00311	U	0.0406	0.00311	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
2-Chloronaphthalene	0.000856	U	0.00824	0.000856	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
2-Chlorophenol	0.00335	U	0.0406	0.00335	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
2,4-Dichlorophenol	0.000823	U	0.00824	0.000823	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
2,4-Dimethylphenol	0.00641	U	0.0406	0.00641	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
2,4-Dinitrophenol	0.0488	U	0.209	0.0488	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
2,4-Dinitrotoluene	0.00331	U	0.0406	0.00331	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
2,6-Dinitrotoluene	0.00423	U	0.0406	0.00423	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
2-Methylnaphthalene	0.000737	U	0.00824	0.000737	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
2-Methylphenol	0.00287	U	0.0406	0.00287	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Methylphenol, 3 & 4	0.00401	U	0.0406	0.00401	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
2-Nitroaniline	0.0184	U	0.209	0.0184	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
3-Nitroaniline	0.0169	U	0.209	0.0169	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
4-Nitroaniline	0.0166	U	0.209	0.0166	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
2-Nitrophenol	0.00452	U	0.0406	0.00452	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
4-Nitrophenol	0.0150	U	0.209	0.0150	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
2,2'-oxybis[1-chloropropane]	0.000885	U	0.00824	0.000885	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
2,3,4,6-Tetrachlorophenol	0.00264	U	0.0406	0.00264	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
2,4,5-Trichlorophenol	0.00438	U	0.0406	0.00438	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
2,4,6-Trichlorophenol	0.00614	U	0.0406	0.00614	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
4-Chloro-3-methylphenol	0.00378	U	0.0406	0.00378	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
4-Chlorophenyl phenyl ether	0.00456	U	0.0406	0.00456	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
4,6-Dinitro-2-methylphenol	0.0165	U	0.209	0.0165	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Acenaphthene	0.000788	U	0.00824	0.000788	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Acenaphthylene	0.000939	U	0.00824	0.000939	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Acetophenone	0.00337	U	0.0406	0.00337	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Anthracene	0.000802	U	0.00824	0.000802	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Atrazine	0.00399	U	0.0406	0.00399	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Benzaldehyde	0.00615	U	0.0406	0.00615	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Benzo[a]anthracene	0.00103	U	0.00824	0.00103	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Benzo[b]fluoranthene	0.00129	U	0.00824	0.00129	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Benzo[k]fluoranthene	0.00166	U	0.00824	0.00166	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Benzo[g,h,i]perylene	0.000816	U	0.00824	0.000816	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Benzo[a]pyrene	0.000821	U	0.00824	0.000821	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Bis(2-chloroethoxy)methane	0.00270	U	0.0406	0.00270	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Bis(2-chloroethyl)ether	0.00110	U	0.00824	0.00110	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Bis(2-ethylhexyl) phthalate	0.00663	U	0.0820	0.00663	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
4-Bromophenyl phenyl ether	0.00357	U	0.0406	0.00357	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Butyl benzyl phthalate	0.00560	U	0.0406	0.00560	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Caprolactam	0.0310	U	0.209	0.0310	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Carbazole	0.000756	U	0.00824	0.000756	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Dibenz(a,h)anthracene	0.000912	U	0.00824	0.000912	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Dibenzofuran	0.00403	U	0.0406	0.00403	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Di-n-butyl phthalate	0.00514	U	0.0406	0.00514	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Di-n-octyl phthalate	0.00432	U	0.0406	0.00432	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Diethyl phthalate	0.00448	U	0.0406	0.00448	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Client Sample ID: BGSB22-(1-2)-161122-S
Date Collected: 11/22/16 09:40
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-2
Matrix: Solid
Percent Solids: 80.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	0.00447	U	0.0406	0.00447	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Fluoranthene	0.000877	U	0.00824	0.000877	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Fluorene	0.00108	U	0.00824	0.00108	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Hexachlorobenzene	0.000874	U	0.00824	0.000874	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Hexachlorobutadiene	0.000918	U	0.00824	0.000918	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Hexachlorocyclopentadiene	0.00442	U	0.0406	0.00442	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Hexachloroethane	0.00295	U	0.0406	0.00295	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Indeno[1,2,3-cd]pyrene	0.000845	U	0.00824	0.000845	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Isophorone	0.00309	U	0.0406	0.00309	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Naphthalene	0.000707	U	0.00824	0.000707	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Nitrobenzene	0.00341	U	0.0820	0.00341	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
N-Nitrosodiphenylamine	0.00380	U	0.0406	0.00380	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
N-Nitrosodi-n-propylamine	0.000962	U	0.00824	0.000962	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Pentachlorophenol	0.00367	U	0.0406	0.00367	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Phenanthrene	0.00130	U	0.00824	0.00130	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Phenol	0.000969	U	0.0406	0.000969	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
Pyrene	0.000829	U	0.00824	0.000829	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1
3,3'-Dichlorobenzidine	0.00434	U	0.0406	0.00434	mg/Kg	☼	11/25/16 02:15	11/25/16 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*42 - 100*	*11/25/16 02:15*	*11/25/16 19:53*	*1*
2-Fluorophenol (Surr)	*61*		*21 - 107*	*11/25/16 02:15*	*11/25/16 19:53*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*20 - 134*	*11/25/16 02:15*	*11/25/16 19:53*	*1*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*	*11/25/16 02:15*	*11/25/16 19:53*	*1*
Phenol-d5 (Surr)	*63*		*29 - 105*	*11/25/16 02:15*	*11/25/16 19:53*	*1*
Terphenyl-d14 (Surr)	*62*		*36 - 113*	*11/25/16 02:15*	*11/25/16 19:53*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: BGSB10-(0.0-0.5)-161122-S
Date Collected: 11/22/16 15:30
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-3
Matrix: Solid
Percent Solids: 90.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.0324	U	0.359	0.0324	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
1,4-Dioxane	0.0416	U	0.725	0.0416	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
1-Methylnaphthalene	0.00774	U	0.0728	0.00774	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
1,2,4,5-Tetrachlorobenzene	0.0275	U	0.359	0.0275	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
2-Chloronaphthalene	0.00757	U	0.0728	0.00757	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
2-Chlorophenol	0.0297	U	0.359	0.0297	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
2,4-Dichlorophenol	0.00728	U	0.0728	0.00728	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
2,4-Dimethylphenol	0.0567	U	0.359	0.0567	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
2,4-Dinitrophenol	0.432	U	1.85	0.432	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
2,4-Dinitrotoluene	0.0293	U	0.359	0.0293	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
2,6-Dinitrotoluene	0.0374	U	0.359	0.0374	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
2-Methylnaphthalene	0.00652	U	0.0728	0.00652	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
2-Methylphenol	0.0253	U	0.359	0.0253	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Methylphenol, 3 & 4	0.0355	U	0.359	0.0355	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
2-Nitroaniline	0.162	U	1.85	0.162	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
3-Nitroaniline	0.149	U	1.85	0.149	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
4-Nitroaniline	0.147	U	1.85	0.147	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
2-Nitrophenol	0.0400	U	0.359	0.0400	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
4-Nitrophenol	0.132	U	1.85	0.132	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
2,2'-oxybis[1-chloropropane]	0.00783	U	0.0728	0.00783	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
2,3,4,6-Tetrachlorophenol	0.0233	U	0.359	0.0233	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
2,4,5-Trichlorophenol	0.0387	U	0.359	0.0387	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
2,4,6-Trichlorophenol	0.0543	U	0.359	0.0543	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
4-Chloro-3-methylphenol	0.0334	U	0.359	0.0334	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
4-Chlorophenyl phenyl ether	0.0403	U	0.359	0.0403	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
4,6-Dinitro-2-methylphenol	0.146	U	1.85	0.146	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Acenaphthene	**0.0170**	**J**	0.0728	0.00697	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Acenaphthylene	**0.0222**	**J**	0.0728	0.00831	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Acetophenone	0.0298	U	0.359	0.0298	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Anthracene	**0.0631**	**J**	0.0728	0.00710	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Atrazine	0.0353	U	0.359	0.0353	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Benzaldehyde	0.0544	U	0.359	0.0544	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Benzo[a]anthracene	**0.712**		0.0728	0.00909	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Benzo[b]fluoranthene	**1.22**		0.0728	0.0114	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Benzo[k]fluoranthene	**0.424**		0.0728	0.0147	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Benzo[g,h,i]perylene	**0.851**		0.0728	0.00722	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Benzo[a]pyrene	**0.811**		0.0728	0.00726	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Bis(2-chloroethoxy)methane	0.0239	U	0.359	0.0239	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Bis(2-chloroethyl)ether	0.00974	U	0.0728	0.00974	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Bis(2-ethylhexyl) phthalate	**0.134**	**J**	0.725	0.0586	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
4-Bromophenyl phenyl ether	0.0316	U	0.359	0.0316	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Butyl benzyl phthalate	0.0496	U	0.359	0.0496	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Caprolactam	0.274	U	1.85	0.274	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Carbazole	**0.0664**	**J**	0.0728	0.00668	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Dibenz(a,h)anthracene	**0.206**		0.0728	0.00807	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Dibenzofuran	0.0357	U	0.359	0.0357	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Di-n-butyl phthalate	0.0454	U	0.359	0.0454	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Di-n-octyl phthalate	0.0382	U	0.359	0.0382	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Diethyl phthalate	0.0396	U	0.359	0.0396	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Client Sample ID: BGSB10-(0.0-0.5)-161122-S
Date Collected: 11/22/16 15:30
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-3
Matrix: Solid
Percent Solids: 90.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	0.0395	U	0.359	0.0395	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Fluoranthene	**1.54**		0.0728	0.00776	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Fluorene	0.00956	U	0.0728	0.00956	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Hexachlorobenzene	0.00773	U	0.0728	0.00773	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Hexachlorobutadiene	0.00812	U	0.0728	0.00812	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Hexachlorocyclopentadiene	0.0391	U	0.359	0.0391	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Hexachloroethane	0.0261	U	0.359	0.0261	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Indeno[1,2,3-cd]pyrene	**0.710**		0.0728	0.00747	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Isophorone	0.0273	U	0.359	0.0273	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Naphthalene	0.00625	U	0.0728	0.00625	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Nitrobenzene	0.0302	U	0.725	0.0302	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
N-Nitrosodiphenylamine	0.0336	U	0.359	0.0336	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
N-Nitrosodi-n-propylamine	0.00851	U	0.0728	0.00851	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Pentachlorophenol	0.0324	U	0.359	0.0324	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Phenanthrene	**0.375**		0.0728	0.0115	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Phenol	0.00857	U	0.359	0.00857	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
Pyrene	**1.09**		0.0728	0.00733	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10
3,3'-Dichlorobenzidine	0.0383	U	0.359	0.0383	mg/Kg	☼	11/25/16 02:15	11/25/16 20:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*42 - 100*	*11/25/16 02:15*	*11/25/16 20:19*	*10*
2-Fluorophenol (Surr)	*53*		*21 - 107*	*11/25/16 02:15*	*11/25/16 20:19*	*10*
2,4,6-Tribromophenol (Surr)	*94*		*20 - 134*	*11/25/16 02:15*	*11/25/16 20:19*	*10*
Nitrobenzene-d5 (Surr)	*65*		*35 - 109*	*11/25/16 02:15*	*11/25/16 20:19*	*10*
Phenol-d5 (Surr)	*69*		*29 - 105*	*11/25/16 02:15*	*11/25/16 20:19*	*10*
Terphenyl-d14 (Surr)	*83*		*36 - 113*	*11/25/16 02:15*	*11/25/16 20:19*	*10*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: BGSB10-(1-2)-161122-S
Date Collected: 11/22/16 15:35
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-4
Matrix: Solid
Percent Solids: 90.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.0164	U	0.182	0.0164	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
1,4-Dioxane	0.0211	U	0.367	0.0211	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
1-Methylnaphthalene	0.00392	U	0.0369	0.00392	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
1,2,4,5-Tetrachlorobenzene	0.0139	U	0.182	0.0139	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
2-Chloronaphthalene	0.00383	U	0.0369	0.00383	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
2-Chlorophenol	0.0150	U	0.182	0.0150	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
2,4-Dichlorophenol	0.00368	U	0.0369	0.00368	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
2,4-Dimethylphenol	0.0287	U	0.182	0.0287	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
2,4-Dinitrophenol	0.219	U	0.936	0.219	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
2,4-Dinitrotoluene	0.0148	U	0.182	0.0148	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
2,6-Dinitrotoluene	0.0189	U	0.182	0.0189	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
2-Methylnaphthalene	**0.00638**	**J**	0.0369	0.00330	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
2-Methylphenol	0.0128	U	0.182	0.0128	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Methylphenol, 3 & 4	0.0180	U	0.182	0.0180	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
2-Nitroaniline	0.0822	U	0.936	0.0822	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
3-Nitroaniline	0.0756	U	0.936	0.0756	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
4-Nitroaniline	0.0744	U	0.936	0.0744	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
2-Nitrophenol	0.0202	U	0.182	0.0202	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
4-Nitrophenol	0.0670	U	0.936	0.0670	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
2,2'-oxybis[1-chloropropane]	0.00396	U	0.0369	0.00396	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
2,3,4,6-Tetrachlorophenol	0.0118	U	0.182	0.0118	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
2,4,5-Trichlorophenol	0.0196	U	0.182	0.0196	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
2,4,6-Trichlorophenol	0.0275	U	0.182	0.0275	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
4-Chloro-3-methylphenol	0.0169	U	0.182	0.0169	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
4-Chlorophenyl phenyl ether	0.0204	U	0.182	0.0204	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
4,6-Dinitro-2-methylphenol	0.0738	U	0.936	0.0738	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Acenaphthene	**0.00775**	**J**	0.0369	0.00353	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Acenaphthylene	**0.0147**	**J**	0.0369	0.00421	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Acetophenone	0.0151	U	0.182	0.0151	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Anthracene	**0.0383**		0.0369	0.00359	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Atrazine	0.0179	U	0.182	0.0179	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Benzaldehyde	0.0275	U	0.182	0.0275	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Benzo[a]anthracene	**0.299**		0.0369	0.00460	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Benzo[b]fluoranthene	**0.449**		0.0369	0.00577	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Benzo[k]fluoranthene	**0.195**		0.0369	0.00742	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Benzo[g,h,i]perylene	**0.312**		0.0369	0.00365	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Benzo[a]pyrene	**0.319**		0.0369	0.00367	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Bis(2-chloroethoxy)methane	0.0121	U	0.182	0.0121	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Bis(2-chloroethyl)ether	0.00493	U	0.0369	0.00493	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Bis(2-ethylhexyl) phthalate	**0.118**	**J**	0.367	0.0297	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
4-Bromophenyl phenyl ether	0.0160	U	0.182	0.0160	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Butyl benzyl phthalate	**0.0473**	**J**	0.182	0.0251	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Caprolactam	0.139	U	0.936	0.139	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Carbazole	**0.0244**	**J**	0.0369	0.00338	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Dibenz(a,h)anthracene	**0.0783**		0.0369	0.00408	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Dibenzofuran	0.0181	U	0.182	0.0181	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Di-n-butyl phthalate	0.0230	U	0.182	0.0230	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Di-n-octyl phthalate	0.0193	U	0.182	0.0193	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Diethyl phthalate	0.0201	U	0.182	0.0201	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Client Sample ID: BGSB10-(1-2)-161122-S
Date Collected: 11/22/16 15:35
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-4
Matrix: Solid
Percent Solids: 90.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	0.0200	U	0.182	0.0200	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Fluoranthene	**0.600**		0.0369	0.00393	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Fluorene	0.00484	U	0.0369	0.00484	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Hexachlorobenzene	0.00391	U	0.0369	0.00391	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Hexachlorobutadiene	0.00411	U	0.0369	0.00411	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Hexachlorocyclopentadiene	0.0198	U	0.182	0.0198	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Hexachloroethane	0.0132	U	0.182	0.0132	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Indeno[1,2,3-cd]pyrene	**0.268**		0.0369	0.00378	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Isophorone	0.0138	U	0.182	0.0138	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Naphthalene	0.00317	U	0.0369	0.00317	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Nitrobenzene	0.0153	U	0.367	0.0153	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
N-Nitrosodiphenylamine	0.0170	U	0.182	0.0170	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
N-Nitrosodi-n-propylamine	0.00431	U	0.0369	0.00431	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Pentachlorophenol	0.0164	U	0.182	0.0164	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Phenanthrene	**0.173**		0.0369	0.00584	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Phenol	0.00434	U	0.182	0.00434	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
Pyrene	**0.417**		0.0369	0.00371	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5
3,3'-Dichlorobenzidine	0.0194	U	0.182	0.0194	mg/Kg	☼	11/25/16 02:15	11/25/16 20:46	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*42 - 100*	*11/25/16 02:15*	*11/25/16 20:46*	*5*
2-Fluorophenol (Surr)	*59*		*21 - 107*	*11/25/16 02:15*	*11/25/16 20:46*	*5*
2,4,6-Tribromophenol (Surr)	*84*		*20 - 134*	*11/25/16 02:15*	*11/25/16 20:46*	*5*
Nitrobenzene-d5 (Surr)	*69*		*35 - 109*	*11/25/16 02:15*	*11/25/16 20:46*	*5*
Phenol-d5 (Surr)	*66*		*29 - 105*	*11/25/16 02:15*	*11/25/16 20:46*	*5*
Terphenyl-d14 (Surr)	*71*		*36 - 113*	*11/25/16 02:15*	*11/25/16 20:46*	*5*

Method: 8081B_LL - Organochlorine Pesticides (GC)

Client Sample ID: BGSB22-(0.0-0.5)-161122-S
Date Collected: 11/22/16 09:35
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-1
Matrix: Solid
Percent Solids: 91.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0000475	U	0.000450	0.0000475	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
alpha-BHC	0.000132	U	0.000450	0.000132	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
beta-BHC	0.000101	U	0.000450	0.000101	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
delta-BHC	0.000160	U	0.000450	0.000160	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
gamma-BHC (Lindane)	0.0000929	U	0.000450	0.0000929	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
cis-Chlordane	0.0000724	U	0.000450	0.0000724	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
trans-Chlordane	0.0000351	U	0.000450	0.0000351	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
4,4'-DDD	**0.000472**	**p**	0.000450	0.0000459	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
4,4'-DDE	**0.00500**	**p**	0.000450	0.000143	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
4,4'-DDT	**0.00420**	**p**	0.000450	0.0000459	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
Dieldrin	0.0000427	U	0.000450	0.0000427	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
Endosulfan I	0.0000286	U	0.000450	0.0000286	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
Endosulfan II	0.000138	U	0.000450	0.000138	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
Endosulfan sulfate	0.0000573	U	0.000450	0.0000573	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
Endrin	0.000131	U	0.000450	0.000131	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
Endrin aldehyde	0.000132	U	0.000450	0.000132	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
Endrin ketone	0.000150	U	0.000450	0.000150	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
Heptachlor	**0.000251**	**J p**	0.000450	0.0000389	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
Heptachlor epoxide	**0.000906**	**p**	0.000450	0.0000540	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
Methoxychlor	0.000131	U	0.000450	0.000131	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5
Toxaphene	0.0148	U	0.0180	0.0148	mg/Kg	☼	11/30/16 04:24	12/01/16 15:17	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*32 - 114*	*11/30/16 04:24*	*12/01/16 15:17*	*5*
Tetrachloro-m-xylene	*62*		*32 - 114*	*11/30/16 04:24*	*12/01/16 15:17*	*5*
DCB Decachlorobiphenyl (Surr)	*84*		*26 - 143*	*11/30/16 04:24*	*12/01/16 15:17*	*5*
DCB Decachlorobiphenyl (Surr)	*92*		*26 - 143*	*11/30/16 04:24*	*12/01/16 15:17*	*5*

Method: 8081B_LL - Organochlorine Pesticides (GC)

Client Sample ID: BGSB22-(1-2)-161122-S
Date Collected: 11/22/16 09:40
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-2
Matrix: Solid
Percent Solids: 80.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0000541	U	0.000512	0.0000541	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
alpha-BHC	0.000151	U	0.000512	0.000151	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
beta-BHC	0.000115	U	0.000512	0.000115	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
delta-BHC	0.000183	U	0.000512	0.000183	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
gamma-BHC (Lindane)	0.000106	U	0.000512	0.000106	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
cis-Chlordane	0.0000824	U	0.000512	0.0000824	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
trans-Chlordane	0.0000400	U	0.000512	0.0000400	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
4,4'-DDD	0.0000522	U	0.000512	0.0000522	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
4,4'-DDE	0.000163	U	0.000512	0.000163	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
4,4'-DDT	0.0000522	U	0.000512	0.0000522	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
Dieldrin	0.0000486	U	0.000512	0.0000486	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
Endosulfan I	0.0000326	U	0.000512	0.0000326	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
Endosulfan II	0.000157	U	0.000512	0.000157	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
Endosulfan sulfate	0.0000652	U	0.000512	0.0000652	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
Endrin	0.000149	U	0.000512	0.000149	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
Endrin aldehyde	0.000151	U	0.000512	0.000151	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
Endrin ketone	0.000171	U	0.000512	0.000171	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
Heptachlor	0.0000443	U	0.000512	0.0000443	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
Heptachlor epoxide	0.0000615	U	0.000512	0.0000615	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
Methoxychlor	0.000149	U	0.000512	0.000149	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5
Toxaphene	0.0169	U	0.0205	0.0169	mg/Kg	☼	11/30/16 04:24	12/01/16 15:32	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*32 - 114*	*11/30/16 04:24*	*12/01/16 15:32*	*5*
Tetrachloro-m-xylene	*61*		*32 - 114*	*11/30/16 04:24*	*12/01/16 15:32*	*5*
DCB Decachlorobiphenyl (Surr)	*77*		*26 - 143*	*11/30/16 04:24*	*12/01/16 15:32*	*5*
DCB Decachlorobiphenyl (Surr)	*77*		*26 - 143*	*11/30/16 04:24*	*12/01/16 15:32*	*5*

Method: 8081B_LL - Organochlorine Pesticides (GC)

Client Sample ID: BGSB10-(0.0-0.5)-161122-S
Date Collected: 11/22/16 15:30
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-3
Matrix: Solid
Percent Solids: 90.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	**0.000148**	**J**	0.000459	0.0000485	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
alpha-BHC	0.000135	U	0.000459	0.000135	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
beta-BHC	0.000103	U	0.000459	0.000103	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
delta-BHC	0.000164	U	0.000459	0.000164	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
gamma-BHC (Lindane)	0.0000947	U	0.000459	0.0000947	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
cis-Chlordane	**0.00115**	**p**	0.000459	0.0000738	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
trans-Chlordane	0.0000358	U	0.000459	0.0000358	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
4,4'-DDD	**0.000970**		0.000459	0.0000468	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
4,4'-DDE	0.000146	U	0.000459	0.000146	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
4,4'-DDT	0.0000468	U	0.000459	0.0000468	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
Dieldrin	**0.00140**	**p**	0.000459	0.0000435	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
Endosulfan I	0.0000292	U	0.000459	0.0000292	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
Endosulfan II	0.000140	U	0.000459	0.000140	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
Endosulfan sulfate	0.0000584	U	0.000459	0.0000584	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
Endrin	0.000134	U	0.000459	0.000134	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
Endrin aldehyde	0.000135	U	0.000459	0.000135	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
Endrin ketone	0.000153	U	0.000459	0.000153	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
Heptachlor	0.0000397	U	0.000459	0.0000397	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
Heptachlor epoxide	**0.000183**	**J p**	0.000459	0.0000551	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
Methoxychlor	0.000133	U	0.000459	0.000133	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5
Toxaphene	0.0151	U	0.0184	0.0151	mg/Kg	☼	11/30/16 04:24	12/01/16 15:48	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*32 - 114*	*11/30/16 04:24*	*12/01/16 15:48*	*5*
Tetrachloro-m-xylene	*74*		*32 - 114*	*11/30/16 04:24*	*12/01/16 15:48*	*5*
DCB Decachlorobiphenyl (Surr)	*166*	*X*	*26 - 143*	*11/30/16 04:24*	*12/01/16 15:48*	*5*
DCB Decachlorobiphenyl (Surr)	*193*	*X*	*26 - 143*	*11/30/16 04:24*	*12/01/16 15:48*	*5*

Method: 8081B_LL - Organochlorine Pesticides (GC)

Client Sample ID: BGSB10-(1-2)-161122-S
Date Collected: 11/22/16 15:35
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-4
Matrix: Solid
Percent Solids: 90.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	**0.0000811**	**J**	0.000459	0.0000484	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
alpha-BHC	0.000135	U	0.000459	0.000135	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
beta-BHC	0.000103	U	0.000459	0.000103	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
delta-BHC	0.000163	U	0.000459	0.000163	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
gamma-BHC (Lindane)	0.0000947	U	0.000459	0.0000947	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
cis-Chlordane	**0.000621**	**p**	0.000459	0.0000738	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
trans-Chlordane	0.0000358	U	0.000459	0.0000358	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
4,4'-DDD	**0.000319**	**J p**	0.000459	0.0000468	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
4,4'-DDE	0.000146	U	0.000459	0.000146	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
4,4'-DDT	0.0000468	U	0.000459	0.0000468	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
Dieldrin	**0.000899**		0.000459	0.0000435	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
Endosulfan I	0.0000292	U	0.000459	0.0000292	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
Endosulfan II	0.000140	U	0.000459	0.000140	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
Endosulfan sulfate	0.0000583	U	0.000459	0.0000583	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
Endrin	0.000134	U	0.000459	0.000134	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
Endrin aldehyde	0.000135	U	0.000459	0.000135	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
Endrin ketone	0.000153	U	0.000459	0.000153	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
Heptachlor	0.0000396	U	0.000459	0.0000396	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
Heptachlor epoxide	0.0000550	U	0.000459	0.0000550	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
Methoxychlor	0.000133	U	0.000459	0.000133	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5
Toxaphene	0.0151	U	0.0183	0.0151	mg/Kg	☼	11/30/16 04:24	12/01/16 16:03	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*32 - 114*	*11/30/16 04:24*	*12/01/16 16:03*	*5*
Tetrachloro-m-xylene	*56*		*32 - 114*	*11/30/16 04:24*	*12/01/16 16:03*	*5*
DCB Decachlorobiphenyl (Surr)	*93*	*p*	*26 - 143*	*11/30/16 04:24*	*12/01/16 16:03*	*5*
DCB Decachlorobiphenyl (Surr)	*152*	*X*	*26 - 143*	*11/30/16 04:24*	*12/01/16 16:03*	*5*

Method: 8151A - Herbicides (GC)

Client Sample ID: BGSB22-(0.0-0.5)-161122-S
Date Collected: 11/22/16 09:35
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-1
Matrix: Solid
Percent Solids: 91.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.00273	U *	0.0218	0.00273	mg/Kg	☼	11/27/16 09:29	11/30/16 15:14	20
2,4-D	0.00595	U *	0.0870	0.00595	mg/Kg	☼	11/27/16 09:29	11/30/16 15:14	20
Silvex (2,4,5-TP)	0.00229	U *	0.0218	0.00229	mg/Kg	☼	11/27/16 09:29	11/30/16 15:14	20
Dalapon	0.00772	U	0.0979	0.00772	mg/Kg	☼	11/27/16 09:29	11/30/16 15:14	20
2,4-DB	0.00666	U *	0.0870	0.00666	mg/Kg	☼	11/27/16 09:29	11/30/16 15:14	20
Dicamba	0.00521	U	0.0435	0.00521	mg/Kg	☼	11/27/16 09:29	11/30/16 15:14	20
Dichlorprop	0.0103	U	0.0870	0.0103	mg/Kg	☼	11/27/16 09:29	11/30/16 15:14	20
Dinoseb	0.00495	U *	0.0131	0.00495	mg/Kg	☼	11/27/16 09:29	11/30/16 15:14	20
MCPA	1.79	U *	8.70	1.79	mg/Kg	☼	11/27/16 09:29	11/30/16 15:14	20
MCPP	1.75	U *	8.70	1.75	mg/Kg	☼	11/27/16 09:29	11/30/16 15:14	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*46*		*19 - 122*	*11/27/16 09:29*	*11/30/16 15:14*	*20*
2,4-Dichlorophenylacetic acid	*48*		*19 - 122*	*11/27/16 09:29*	*11/30/16 15:14*	*20*

Method: 8151A - Herbicides (GC)

Client Sample ID: BGSB22-(1-2)-161122-S
Date Collected: 11/22/16 09:40
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-2
Matrix: Solid
Percent Solids: 80.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.00312	U *	0.0249	0.00312	mg/Kg	☼	11/27/16 09:29	11/30/16 15:38	20
2,4-D	0.00681	U *	0.0995	0.00681	mg/Kg	☼	11/27/16 09:29	11/30/16 15:38	20
Silvex (2,4,5-TP)	0.00261	U *	0.0249	0.00261	mg/Kg	☼	11/27/16 09:29	11/30/16 15:38	20
Dalapon	0.00882	U	0.112	0.00882	mg/Kg	☼	11/27/16 09:29	11/30/16 15:38	20
2,4-DB	0.00761	U *	0.0995	0.00761	mg/Kg	☼	11/27/16 09:29	11/30/16 15:38	20
Dicamba	0.00596	U	0.0497	0.00596	mg/Kg	☼	11/27/16 09:29	11/30/16 15:38	20
Dichlorprop	0.0118	U	0.0995	0.0118	mg/Kg	☼	11/27/16 09:29	11/30/16 15:38	20
Dinoseb	0.00566	U *	0.0149	0.00566	mg/Kg	☼	11/27/16 09:29	11/30/16 15:38	20
MCPA	2.05	U *	9.95	2.05	mg/Kg	☼	11/27/16 09:29	11/30/16 15:38	20
MCPP	2.00	U *	9.95	2.00	mg/Kg	☼	11/27/16 09:29	11/30/16 15:38	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*45*		*19 - 122*	*11/27/16 09:29*	*11/30/16 15:38*	*20*
2,4-Dichlorophenylacetic acid	*48*		*19 - 122*	*11/27/16 09:29*	*11/30/16 15:38*	*20*

Method: 8151A - Herbicides (GC)

Client Sample ID: BGSB10-(0.0-0.5)-161122-S
Date Collected: 11/22/16 15:30
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-3
Matrix: Solid
Percent Solids: 90.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.00276	U *	0.0220	0.00276	mg/Kg	☼	11/27/16 09:30	11/30/16 16:02	20
2,4-D	0.00603	U *	0.0881	0.00603	mg/Kg	☼	11/27/16 09:30	11/30/16 16:02	20
Silvex (2,4,5-TP)	0.00232	U *	0.0220	0.00232	mg/Kg	☼	11/27/16 09:30	11/30/16 16:02	20
Dalapon	0.00782	U	0.0992	0.00782	mg/Kg	☼	11/27/16 09:30	11/30/16 16:02	20
2,4-DB	0.00675	U *	0.0881	0.00675	mg/Kg	☼	11/27/16 09:30	11/30/16 16:02	20
Dicamba	0.00528	U	0.0441	0.00528	mg/Kg	☼	11/27/16 09:30	11/30/16 16:02	20
Dichlorprop	0.0104	U	0.0881	0.0104	mg/Kg	☼	11/27/16 09:30	11/30/16 16:02	20
Dinoseb	0.00501	U *	0.0132	0.00501	mg/Kg	☼	11/27/16 09:30	11/30/16 16:02	20
MCPA	1.82	U *	8.81	1.82	mg/Kg	☼	11/27/16 09:30	11/30/16 16:02	20
MCPP	1.77	U *	8.81	1.77	mg/Kg	☼	11/27/16 09:30	11/30/16 16:02	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*41*		*19 - 122*	*11/27/16 09:30*	*11/30/16 16:02*	*20*
2,4-Dichlorophenylacetic acid	*44*		*19 - 122*	*11/27/16 09:30*	*11/30/16 16:02*	*20*

Method: 8151A - Herbicides (GC)

Client Sample ID: BGSB10-(1-2)-161122-S
Date Collected: 11/22/16 15:35
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-4
Matrix: Solid
Percent Solids: 90.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.00276	U *	0.0220	0.00276	mg/Kg	☼	11/27/16 09:30	11/30/16 16:25	20
2,4-D	0.00603	U *	0.0881	0.00603	mg/Kg	☼	11/27/16 09:30	11/30/16 16:25	20
Silvex (2,4,5-TP)	0.00231	U *	0.0220	0.00231	mg/Kg	☼	11/27/16 09:30	11/30/16 16:25	20
Dalapon	0.00781	U	0.0991	0.00781	mg/Kg	☼	11/27/16 09:30	11/30/16 16:25	20
2,4-DB	0.00674	U *	0.0881	0.00674	mg/Kg	☼	11/27/16 09:30	11/30/16 16:25	20
Dicamba	0.00527	U	0.0440	0.00527	mg/Kg	☼	11/27/16 09:30	11/30/16 16:25	20
Dichlorprop	0.0104	U	0.0881	0.0104	mg/Kg	☼	11/27/16 09:30	11/30/16 16:25	20
Dinoseb	0.00501	U *	0.0132	0.00501	mg/Kg	☼	11/27/16 09:30	11/30/16 16:25	20
MCPA	1.81	U *	8.81	1.81	mg/Kg	☼	11/27/16 09:30	11/30/16 16:25	20
MCPP	1.77	U *	8.81	1.77	mg/Kg	☼	11/27/16 09:30	11/30/16 16:25	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*47*		*19 - 122*	*11/27/16 09:30*	*11/30/16 16:25*	*20*
2,4-Dichlorophenylacetic acid	*50*		*19 - 122*	*11/27/16 09:30*	*11/30/16 16:25*	*20*

Method: 6020A - Metals (ICP/MS)

Client Sample ID: BGSB22-(0.0-0.5)-161122-S
Date Collected: 11/22/16 09:35
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-1
Matrix: Solid
Percent Solids: 91.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0592	J	0.106	0.00866	mg/Kg	☼	11/28/16 07:42	12/05/16 18:17	1
Aluminum	5750		3.17	0.609	mg/Kg	☼	11/28/16 07:42	12/05/16 18:17	1
Arsenic	3.01	F1	0.106	0.0152	mg/Kg	☼	11/28/16 07:42	12/05/16 18:17	1
Boron	3.01		2.11	0.337	mg/Kg	☼	11/28/16 07:42	12/05/16 18:17	1
Barium	140	F1	1.06	0.0156	mg/Kg	☼	11/28/16 07:42	12/05/16 18:17	1
Beryllium	0.430		0.106	0.00792	mg/Kg	☼	11/28/16 07:42	12/05/16 18:17	1
Cadmium	0.294		0.106	0.0137	mg/Kg	☼	11/28/16 07:42	12/05/16 18:17	1
Cobalt	7.81		0.0528	0.00264	mg/Kg	☼	11/28/16 07:42	12/05/16 18:17	1
Chromium	7.50		0.211	0.0551	mg/Kg	☼	11/28/16 07:42	12/05/16 18:17	1
Copper	10.1		0.211	0.0550	mg/Kg	☼	11/28/16 07:42	12/05/16 18:17	1
Manganese	404		0.528	0.0375	mg/Kg	☼	11/28/16 07:42	12/05/16 18:17	1
Nickel	6.57		0.106	0.0411	mg/Kg	☼	11/28/16 07:42	12/05/16 18:17	1
Lead	67.5		0.106	0.00961	mg/Kg	☼	11/28/16 07:42	12/05/16 18:17	1
Antimony	0.379	F1	0.211	0.0303	mg/Kg	☼	11/28/16 07:42	12/05/16 18:17	1
Selenium	0.512	J	0.528	0.0467	mg/Kg	☼	11/28/16 07:42	12/05/16 18:17	1
Vanadium	17.9		0.106	0.0739	mg/Kg	☼	11/28/16 07:42	12/05/16 18:17	1
Zinc	110	F1	0.528	0.204	mg/Kg	☼	11/28/16 07:42	12/05/16 18:17	1
Thallium	0.0623	J	0.106	0.00275	mg/Kg	☼	11/28/16 07:42	12/05/16 18:17	1

Method: 6020A - Metals (ICP/MS)

Client Sample ID: BGSB22-(1-2)-161122-S
Date Collected: 11/22/16 09:40
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-2
Matrix: Solid
Percent Solids: 80.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0529	J	0.106	0.00873	mg/Kg	☼	11/28/16 07:42	12/05/16 18:42	1
Aluminum	24800		3.19	0.614	mg/Kg	☼	11/28/16 07:42	12/05/16 18:42	1
Arsenic	11.2		0.106	0.0153	mg/Kg	☼	11/28/16 07:42	12/05/16 18:42	1
Boron	7.36		2.13	0.339	mg/Kg	☼	11/28/16 07:42	12/05/16 18:42	1
Barium	486		1.06	0.0158	mg/Kg	☼	11/28/16 07:42	12/05/16 18:42	1
Beryllium	2.48		0.106	0.00799	mg/Kg	☼	11/28/16 07:42	12/05/16 18:42	1
Cadmium	0.425		0.106	0.0138	mg/Kg	☼	11/28/16 07:42	12/05/16 18:42	1
Cobalt	97.5		0.0532	0.00266	mg/Kg	☼	11/28/16 07:42	12/05/16 18:42	1
Chromium	26.4		0.213	0.0556	mg/Kg	☼	11/28/16 07:42	12/05/16 18:42	1
Copper	18.5		0.213	0.0555	mg/Kg	☼	11/28/16 07:42	12/05/16 18:42	1
Manganese	7470		5.32	0.378	mg/Kg	☼	11/28/16 07:42	12/06/16 13:18	10
Nickel	95.6		0.106	0.0414	mg/Kg	☼	11/28/16 07:42	12/05/16 18:42	1
Lead	107		0.106	0.00969	mg/Kg	☼	11/28/16 07:42	12/05/16 18:42	1
Antimony	0.419		0.213	0.0306	mg/Kg	☼	11/28/16 07:42	12/05/16 18:42	1
Selenium	2.60		0.532	0.0471	mg/Kg	☼	11/28/16 07:42	12/05/16 18:42	1
Vanadium	99.6		0.106	0.0745	mg/Kg	☼	11/28/16 07:42	12/05/16 18:42	1
Zinc	37.1		0.532	0.206	mg/Kg	☼	11/28/16 07:42	12/05/16 18:42	1
Thallium	0.325		0.106	0.00277	mg/Kg	☼	11/28/16 07:42	12/05/16 18:42	1

Method: 6020A - Metals (ICP/MS)

Client Sample ID: BGSB10-(0.0-0.5)-161122-S
Date Collected: 11/22/16 15:30
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-3
Matrix: Solid
Percent Solids: 90.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0945		0.0874	0.00717	mg/Kg	☼	11/28/16 07:42	12/05/16 18:48	1
Aluminum	9360		2.62	0.504	mg/Kg	☼	11/28/16 07:42	12/05/16 18:48	1
Arsenic	2.94		0.0874	0.0126	mg/Kg	☼	11/28/16 07:42	12/05/16 18:48	1
Boron	5.83		1.75	0.279	mg/Kg	☼	11/28/16 07:42	12/05/16 18:48	1
Barium	109		0.874	0.0129	mg/Kg	☼	11/28/16 07:42	12/05/16 18:48	1
Beryllium	0.608		0.0874	0.00656	mg/Kg	☼	11/28/16 07:42	12/05/16 18:48	1
Cadmium	0.204		0.0874	0.0114	mg/Kg	☼	11/28/16 07:42	12/05/16 18:48	1
Cobalt	5.56		0.0437	0.00219	mg/Kg	☼	11/28/16 07:42	12/05/16 18:48	1
Chromium	14.3		0.175	0.0456	mg/Kg	☼	11/28/16 07:42	12/05/16 18:48	1
Copper	13.0		0.175	0.0456	mg/Kg	☼	11/28/16 07:42	12/05/16 18:48	1
Manganese	215		0.437	0.0310	mg/Kg	☼	11/28/16 07:42	12/05/16 18:48	1
Nickel	10.2		0.0874	0.0340	mg/Kg	☼	11/28/16 07:42	12/05/16 18:48	1
Lead	40.5		0.0874	0.00796	mg/Kg	☼	11/28/16 07:42	12/05/16 18:48	1
Antimony	0.410		0.175	0.0251	mg/Kg	☼	11/28/16 07:42	12/05/16 18:48	1
Selenium	0.482		0.437	0.0386	mg/Kg	☼	11/28/16 07:42	12/05/16 18:48	1
Vanadium	19.0		0.0874	0.0612	mg/Kg	☼	11/28/16 07:42	12/05/16 18:48	1
Zinc	82.5		0.437	0.169	mg/Kg	☼	11/28/16 07:42	12/05/16 18:48	1
Thallium	0.0915		0.0874	0.00227	mg/Kg	☼	11/28/16 07:42	12/05/16 18:48	1

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: U.S. Oil Recovery Superfund Site

TestAmerica Job ID: 180-61122-1

Method: 6020A - Metals (ICP/MS)

Client Sample ID: BGSB10-(1-2)-161122-S
Date Collected: 11/22/16 15:35
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-4
Matrix: Solid
Percent Solids: 90.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.384		0.109	0.00894	mg/Kg	☼	11/28/16 07:42	12/05/16 19:03	1
Aluminum	9720		3.27	0.629	mg/Kg	☼	11/28/16 07:42	12/05/16 19:03	1
Arsenic	2.72		0.109	0.0157	mg/Kg	☼	11/28/16 07:42	12/05/16 19:03	1
Boron	6.22		2.18	0.347	mg/Kg	☼	11/28/16 07:42	12/05/16 19:03	1
Barium	110		1.09	0.0161	mg/Kg	☼	11/28/16 07:42	12/05/16 19:03	1
Beryllium	0.615		0.109	0.00818	mg/Kg	☼	11/28/16 07:42	12/05/16 19:03	1
Cadmium	0.306		0.109	0.0142	mg/Kg	☼	11/28/16 07:42	12/05/16 19:03	1
Cobalt	4.65		0.0545	0.00273	mg/Kg	☼	11/28/16 07:42	12/05/16 19:03	1
Chromium	14.4		0.218	0.0569	mg/Kg	☼	11/28/16 07:42	12/05/16 19:03	1
Copper	10.6		0.218	0.0568	mg/Kg	☼	11/28/16 07:42	12/05/16 19:03	1
Manganese	217		0.545	0.0387	mg/Kg	☼	11/28/16 07:42	12/05/16 19:03	1
Nickel	10.0		0.109	0.0424	mg/Kg	☼	11/28/16 07:42	12/05/16 19:03	1
Lead	89.5		0.109	0.00992	mg/Kg	☼	11/28/16 07:42	12/05/16 19:03	1
Antimony	0.473		0.218	0.0313	mg/Kg	☼	11/28/16 07:42	12/05/16 19:03	1
Selenium	0.290	J	0.545	0.0482	mg/Kg	☼	11/28/16 07:42	12/05/16 19:03	1
Vanadium	17.8		0.109	0.0763	mg/Kg	☼	11/28/16 07:42	12/05/16 19:03	1
Zinc	76.9		0.545	0.211	mg/Kg	☼	11/28/16 07:42	12/05/16 19:03	1
Thallium	0.0944	J	0.109	0.00283	mg/Kg	☼	11/28/16 07:42	12/05/16 19:03	1

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: U.S. Oil Recovery Superfund Site

TestAmerica Job ID: 180-61122-1

Method: 7471B - Mercury (CVAA)

Client Sample ID: BGSB22-(0.0-0.5)-161122-S
Date Collected: 11/22/16 09:35
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-1
Matrix: Solid
Percent Solids: 91.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0660**		0.0359	0.00804	mg/Kg	☼	11/28/16 12:49	12/02/16 08:37	1

Method: 7471B - Mercury (CVAA)

Client Sample ID: BGSB22-(1-2)-161122-S
Date Collected: 11/22/16 09:40
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-2
Matrix: Solid
Percent Solids: 80.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00927	J	0.0404	0.00906	mg/Kg	☼	11/28/16 12:49	12/02/16 08:39	1

Method: 7471B - Mercury (CVAA)

Client Sample ID: BGSB10-(0.0-0.5)-161122-S
Date Collected: 11/22/16 15:30
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-3
Matrix: Solid
Percent Solids: 90.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0294	J	0.0358	0.00801	mg/Kg	☼	11/28/16 12:49	12/02/16 08:59	1

Method: 7471B - Mercury (CVAA)

Client Sample ID: BGSB10-(1-2)-161122-S
Date Collected: 11/22/16 15:35
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-4
Matrix: Solid
Percent Solids: 90.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0711**		0.0307	0.00688	mg/Kg	☼	11/28/16 12:49	12/02/16 09:01	1

General Chemistry

Client Sample ID: BGSB22-(0.0-0.5)-161122-S
Date Collected: 11/22/16 09:35
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.1**		0.1	0.1	%			11/25/16 11:02	1
Percent Solids	**91.9**		0.1	0.1	%			11/25/16 11:02	1

General Chemistry

Client Sample ID: BGSB22-(1-2)-161122-S
Date Collected: 11/22/16 09:40
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.7**		0.1	0.1	%			11/25/16 11:02	1
Percent Solids	**80.3**		0.1	0.1	%			11/25/16 11:02	1

General Chemistry

Client Sample ID: BGSB10-(0.0-0.5)-161122-S
Date Collected: 11/22/16 15:30
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.2**		0.1	0.1	%			11/25/16 11:02	1
Percent Solids	**90.8**		0.1	0.1	%			11/25/16 11:02	1

General Chemistry

Client Sample ID: BGSB10-(1-2)-161122-S
Date Collected: 11/22/16 15:35
Date Received: 11/23/16 09:30

Lab Sample ID: 180-61122-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.2**		0.1	0.1	%			11/25/16 11:02	1
Percent Solids	**90.8**		0.1	0.1	%			11/25/16 11:02	1

Default Detection Limits

Client: EA Engineering, Science, and Technology
Project/Site: U.S. Oil Recovery Superfund Site

TestAmerica Job ID: 180-61122-1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Prep: 3541

Analyte	RL	MDL	Units	Method
1,1'-Biphenyl	0.0330	0.00298	mg/Kg	8270D LL
1,2,4,5-Tetrachlorobenzene	0.0330	0.00253	mg/Kg	8270D LL
1,4-Dioxane	0.0667	0.00383	mg/Kg	8270D LL
1-Methylnaphthalene	0.00670	0.000712	mg/Kg	8270D LL
2,2'-oxybis[1-chloropropane]	0.00670	0.000720	mg/Kg	8270D LL
2,3,4,6-Tetrachlorophenol	0.0330	0.00214	mg/Kg	8270D LL
2,4,5-Trichlorophenol	0.0330	0.00356	mg/Kg	8270D LL
2,4,6-Trichlorophenol	0.0330	0.00499	mg/Kg	8270D LL
2,4-Dichlorophenol	0.00670	0.000669	mg/Kg	8270D LL
2,4-Dimethylphenol	0.0330	0.00522	mg/Kg	8270D LL
2,4-Dinitrophenol	0.170	0.0397	mg/Kg	8270D LL
2,4-Dinitrotoluene	0.0330	0.00269	mg/Kg	8270D LL
2,6-Dinitrotoluene	0.0330	0.00344	mg/Kg	8270D LL
2-Chloronaphthalene	0.00670	0.000696	mg/Kg	8270D LL
2-Chlorophenol	0.0330	0.00273	mg/Kg	8270D LL
2-Methylnaphthalene	0.00670	0.000600	mg/Kg	8270D LL
2-Methylphenol	0.0330	0.00233	mg/Kg	8270D LL
2-Nitroaniline	0.170	0.0149	mg/Kg	8270D LL
2-Nitrophenol	0.0330	0.00368	mg/Kg	8270D LL
3,3'-Dichlorobenzidine	0.0330	0.00353	mg/Kg	8270D LL
3-Nitroaniline	0.170	0.0137	mg/Kg	8270D LL
4,6-Dinitro-2-methylphenol	0.170	0.0134	mg/Kg	8270D LL
4-Bromophenyl phenyl ether	0.0330	0.00290	mg/Kg	8270D LL
4-Chloro-3-methylphenol	0.0330	0.00307	mg/Kg	8270D LL
4-Chlorophenyl phenyl ether	0.0330	0.00371	mg/Kg	8270D LL
4-Nitroaniline	0.170	0.0135	mg/Kg	8270D LL
4-Nitrophenol	0.170	0.0122	mg/Kg	8270D LL
Acenaphthene	0.00670	0.000641	mg/Kg	8270D LL
Acenaphthylene	0.00670	0.000764	mg/Kg	8270D LL
Acetophenone	0.0330	0.00274	mg/Kg	8270D LL
Anthracene	0.00670	0.000653	mg/Kg	8270D LL
Atrazine	0.0330	0.00325	mg/Kg	8270D LL
Benzaldehyde	0.0330	0.00500	mg/Kg	8270D LL
Benzo[a]anthracene	0.00670	0.000836	mg/Kg	8270D LL
Benzo[a]pyrene	0.00670	0.000668	mg/Kg	8270D LL
Benzo[b]fluoranthene	0.00670	0.00105	mg/Kg	8270D LL
Benzo[g,h,i]perylene	0.00670	0.000664	mg/Kg	8270D LL
Benzo[k]fluoranthene	0.00670	0.00135	mg/Kg	8270D LL
Bis(2-chloroethoxy)methane	0.0330	0.00220	mg/Kg	8270D LL
Bis(2-chloroethyl)ether	0.00670	0.000895	mg/Kg	8270D LL
Bis(2-ethylhexyl) phthalate	0.0667	0.00539	mg/Kg	8270D LL
Butyl benzyl phthalate	0.0330	0.00456	mg/Kg	8270D LL
Caprolactam	0.170	0.0252	mg/Kg	8270D LL
Carbazole	0.00670	0.000615	mg/Kg	8270D LL
Dibenz(a,h)anthracene	0.00670	0.000742	mg/Kg	8270D LL
Dibenzofuran	0.0330	0.00328	mg/Kg	8270D LL
Diethyl phthalate	0.0330	0.00364	mg/Kg	8270D LL
Dimethyl phthalate	0.0330	0.00363	mg/Kg	8270D LL
Di-n-butyl phthalate	0.0330	0.00418	mg/Kg	8270D LL
Di-n-octyl phthalate	0.0330	0.00352	mg/Kg	8270D LL
Fluoranthene	0.00670	0.000713	mg/Kg	8270D LL

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Prep: 3541

Analyte	RL	MDL	Units	Method
Fluorene	0.00670	0.000879	mg/Kg	8270D LL
Hexachlorobenzene	0.00670	0.000711	mg/Kg	8270D LL
Hexachlorobutadiene	0.00670	0.000747	mg/Kg	8270D LL
Hexachlorocyclopentadiene	0.0330	0.00360	mg/Kg	8270D LL
Hexachloroethane	0.0330	0.00240	mg/Kg	8270D LL
Indeno[1,2,3-cd]pyrene	0.00670	0.000687	mg/Kg	8270D LL
Isophorone	0.0330	0.00251	mg/Kg	8270D LL
Methylphenol, 3 & 4	0.0330	0.00327	mg/Kg	8270D LL
Naphthalene	0.00670	0.000575	mg/Kg	8270D LL
Nitrobenzene	0.0667	0.00278	mg/Kg	8270D LL
N-Nitrosodi-n-propylamine	0.00670	0.000782	mg/Kg	8270D LL
N-Nitrosodiphenylamine	0.0330	0.00309	mg/Kg	8270D LL
Pentachlorophenol	0.0330	0.00298	mg/Kg	8270D LL
Phenanthrene	0.00670	0.00106	mg/Kg	8270D LL
Phenol	0.0330	0.000788	mg/Kg	8270D LL
Pyrene	0.00670	0.000675	mg/Kg	8270D LL

Method: 8081B_LL - Organochlorine Pesticides (GC)

Prep: 3541

Analyte	RL	MDL	Units	Method
4,4'-DDD	0.0000833	0.00000850	mg/Kg	8081B_LL
4,4'-DDE	0.0000833	0.0000265	mg/Kg	8081B_LL
4,4'-DDT	0.0000833	0.00000850	mg/Kg	8081B_LL
Aldrin	0.0000833	0.00000880	mg/Kg	8081B_LL
alpha-BHC	0.0000833	0.0000245	mg/Kg	8081B_LL
beta-BHC	0.0000833	0.0000187	mg/Kg	8081B_LL
cis-Chlordane	0.0000833	0.0000134	mg/Kg	8081B_LL
delta-BHC	0.0000833	0.0000297	mg/Kg	8081B_LL
Dieldrin	0.0000833	0.00000790	mg/Kg	8081B_LL
Endosulfan I	0.0000833	0.00000530	mg/Kg	8081B_LL
Endosulfan II	0.0000833	0.0000255	mg/Kg	8081B_LL
Endosulfan sulfate	0.0000833	0.0000106	mg/Kg	8081B_LL
Endrin	0.0000833	0.0000243	mg/Kg	8081B_LL
Endrin aldehyde	0.0000833	0.0000245	mg/Kg	8081B_LL
Endrin ketone	0.0000833	0.0000278	mg/Kg	8081B_LL
gamma-BHC (Lindane)	0.0000833	0.0000172	mg/Kg	8081B_LL
Heptachlor	0.0000833	0.00000720	mg/Kg	8081B_LL
Heptachlor epoxide	0.0000833	0.0000100	mg/Kg	8081B_LL
Methoxychlor	0.0000833	0.0000242	mg/Kg	8081B_LL
Toxaphene	0.00333	0.00274	mg/Kg	8081B_LL
trans-Chlordane	0.0000833	0.00000650	mg/Kg	8081B_LL

Method: 8151A - Herbicides (GC)

Prep: 8151A

Analyte	RL	MDL	Units	Method
2,4,5-T	0.0200	0.00251	mg/Kg	8151A
2,4-D	0.0800	0.00547	mg/Kg	8151A
2,4-DB	0.0800	0.00612	mg/Kg	8151A
Dalapon	0.0900	0.00710	mg/Kg	8151A
Dicamba	0.0400	0.00479	mg/Kg	8151A

Default Detection Limits

Client: EA Engineering, Science, and Technology
Project/Site: U.S. Oil Recovery Superfund Site

TestAmerica Job ID: 180-61122-1

Method: 8151A - Herbicides (GC) (Continued)

Prep: 8151A

Analyte	RL	MDL	Units	Method
Dichlorprop	0.0800	0.00948	mg/Kg	8151A
Dinoseb	0.0120	0.00455	mg/Kg	8151A
MCPA	8.00	1.65	mg/Kg	8151A
MCPP	8.00	1.61	mg/Kg	8151A
Silvex (2,4,5-TP)	0.0200	0.00210	mg/Kg	8151A

Method: 6020A - Metals (ICP/MS)

Prep: 3050B

Analyte	RL	MDL	Units	Method
Aluminum	3.00	0.577	mg/Kg	6020A
Antimony	0.200	0.0287	mg/Kg	6020A
Arsenic	0.100	0.0144	mg/Kg	6020A
Barium	1.00	0.0148	mg/Kg	6020A
Beryllium	0.100	0.00750	mg/Kg	6020A
Boron	2.00	0.319	mg/Kg	6020A
Cadmium	0.100	0.0130	mg/Kg	6020A
Chromium	0.200	0.0522	mg/Kg	6020A
Cobalt	0.0500	0.00250	mg/Kg	6020A
Copper	0.200	0.0521	mg/Kg	6020A
Lead	0.100	0.00910	mg/Kg	6020A
Manganese	0.500	0.0355	mg/Kg	6020A
Nickel	0.100	0.0389	mg/Kg	6020A
Selenium	0.500	0.0442	mg/Kg	6020A
Silver	0.100	0.00820	mg/Kg	6020A
Thallium	0.100	0.00260	mg/Kg	6020A
Vanadium	0.100	0.0700	mg/Kg	6020A
Zinc	0.500	0.194	mg/Kg	6020A

Method: 7471B - Mercury (CVAA)

Prep: 7471B

Analyte	RL	MDL	Units	Method
Mercury	0.0330	0.00739	mg/Kg	7471B

General Chemistry

Analyte	RL	MDL	Units	Method
Percent Moisture	0.1	0.1	%	2540G
Percent Solids	0.1	0.1	%	2540G

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: U.S. Oil Recovery Superfund Site

TestAmerica Job ID: 180-61122-1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Solid — Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(42-100)	(21-107)	(20-134)	(35-109)	(29-105)	(36-113)
180-61122-1	BGSB22-(0.0-0.5)-161122-S	62	57	75	61	61	64
180-61122-1 MS	BGSB22-(0.0-0.5)-161122-S	61	52	79	59	60	62
180-61122-1 MSD	BGSB22-(0.0-0.5)-161122-S	67	56	88	65	66	67
180-61122-2	BGSB22-(1-2)-161122-S	60	61	76	63	63	62
180-61122-3	BGSB10-(0.0-0.5)-161122-S	73	53	94	65	69	83
180-61122-4	BGSB10-(1-2)-161122-S	68	59	84	69	66	71
LCS 180-195373/2-A	Lab Control Sample	68	71	87	74	70	74
MB 180-195373/1-A	Method Blank	62	60	76	61	61	76

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8081B_LL - Organochlorine Pesticides (GC)

Matrix: Solid — Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(32-114)	(32-114)	(26-143)	(26-143)
180-61122-1	BGSB22-(0.0-0.5)-161122-S	63	62	84	92
180-61122-2	BGSB22-(1-2)-161122-S	63	61	77	77
180-61122-3	BGSB10-(0.0-0.5)-161122-S	76	74	166 X	193 X
180-61122-4	BGSB10-(1-2)-161122-S	60	56	93 p	152 X
LCS 180-195769/2-A	Lab Control Sample	83	74	91	99
MB 180-195769/1-A	Method Blank	80	76	99	92

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Method: 8151A - Herbicides (GC)

Matrix: Solid — Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(19-122)	(19-122)
180-61122-1	BGSB22-(0.0-0.5)-161122-S	46	48
180-61122-2	BGSB22-(1-2)-161122-S	45	48
180-61122-3	BGSB10-(0.0-0.5)-161122-S	41	44
180-61122-4	BGSB10-(1-2)-161122-S	47	50
LCS 180-195524/2-A	Lab Control Sample	99	103
MB 180-195524/1-A	Method Blank	43	46

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-195373/1-A
Matrix: Solid
Analysis Batch: 195402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195373

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.00298	U	0.0330	0.00298	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
1,4-Dioxane	0.00383	U	0.0667	0.00383	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
1-Methylnaphthalene	0.000712	U	0.00670	0.000712	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
1,2,4,5-Tetrachlorobenzene	0.00253	U	0.0330	0.00253	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
2-Chloronaphthalene	0.000696	U	0.00670	0.000696	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
2-Chlorophenol	0.00273	U	0.0330	0.00273	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
2,4-Dichlorophenol	0.000669	U	0.00670	0.000669	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
2,4-Dimethylphenol	0.00522	U	0.0330	0.00522	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
2,4-Dinitrophenol	0.0397	U	0.170	0.0397	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
2,4-Dinitrotoluene	0.00269	U	0.0330	0.00269	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
2,6-Dinitrotoluene	0.00344	U	0.0330	0.00344	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
2-Methylnaphthalene	0.000600	U	0.00670	0.000600	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
2-Methylphenol	0.00233	U	0.0330	0.00233	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Methylphenol, 3 & 4	0.00327	U	0.0330	0.00327	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
2-Nitroaniline	0.0149	U	0.170	0.0149	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
3-Nitroaniline	0.0137	U	0.170	0.0137	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
4-Nitroaniline	0.0135	U	0.170	0.0135	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
2-Nitrophenol	0.00368	U	0.0330	0.00368	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
4-Nitrophenol	0.0122	U	0.170	0.0122	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
2,2'-oxybis[1-chloropropane]	0.000720	U	0.00670	0.000720	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
2,3,4,6-Tetrachlorophenol	0.00214	U	0.0330	0.00214	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
2,4,5-Trichlorophenol	0.00356	U	0.0330	0.00356	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
2,4,6-Trichlorophenol	0.00499	U	0.0330	0.00499	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
4-Chloro-3-methylphenol	0.00307	U	0.0330	0.00307	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
4-Chlorophenyl phenyl ether	0.00371	U	0.0330	0.00371	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
4,6-Dinitro-2-methylphenol	0.0134	U	0.170	0.0134	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Acenaphthene	0.000641	U	0.00670	0.000641	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Acenaphthylene	0.000764	U	0.00670	0.000764	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Acetophenone	0.00274	U	0.0330	0.00274	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Anthracene	0.000653	U	0.00670	0.000653	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Atrazine	0.00325	U	0.0330	0.00325	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Benzaldehyde	0.00500	U	0.0330	0.00500	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Benzo[a]anthracene	0.000836	U	0.00670	0.000836	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Benzo[b]fluoranthene	0.00105	U	0.00670	0.00105	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Benzo[k]fluoranthene	0.00135	U	0.00670	0.00135	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Benzo[g,h,i]perylene	0.000664	U	0.00670	0.000664	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Benzo[a]pyrene	0.000668	U	0.00670	0.000668	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Bis(2-chloroethoxy)methane	0.00220	U	0.0330	0.00220	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Bis(2-chloroethyl)ether	0.000895	U	0.00670	0.000895	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Bis(2-ethylhexyl) phthalate	0.00539	U	0.0667	0.00539	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
4-Bromophenyl phenyl ether	0.00290	U	0.0330	0.00290	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Butyl benzyl phthalate	0.00456	U	0.0330	0.00456	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Caprolactam	0.0252	U	0.170	0.0252	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Carbazole	0.000615	U	0.00670	0.000615	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Dibenz(a,h)anthracene	0.000742	U	0.00670	0.000742	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Dibenzofuran	0.00328	U	0.0330	0.00328	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Di-n-butyl phthalate	0.00418	U	0.0330	0.00418	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Di-n-octyl phthalate	0.00352	U	0.0330	0.00352	mg/Kg		11/25/16 02:15	11/25/16 10:08	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-195373/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 195402 — **Prep Batch: 195373**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	0.00364	U	0.0330	0.00364	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Dimethyl phthalate	0.00363	U	0.0330	0.00363	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Fluoranthene	0.000713	U	0.00670	0.000713	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Fluorene	0.000879	U	0.00670	0.000879	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Hexachlorobenzene	0.000711	U	0.00670	0.000711	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Hexachlorobutadiene	0.000747	U	0.00670	0.000747	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Hexachlorocyclopentadiene	0.00360	U	0.0330	0.00360	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Hexachloroethane	0.00240	U	0.0330	0.00240	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Indeno[1,2,3-cd]pyrene	0.000687	U	0.00670	0.000687	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Isophorone	0.00251	U	0.0330	0.00251	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Naphthalene	0.000575	U	0.00670	0.000575	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Nitrobenzene	0.00278	U	0.0667	0.00278	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
N-Nitrosodiphenylamine	0.00309	U	0.0330	0.00309	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
N-Nitrosodi-n-propylamine	0.000782	U	0.00670	0.000782	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Pentachlorophenol	0.00298	U	0.0330	0.00298	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Phenanthrene	0.00106	U	0.00670	0.00106	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Phenol	0.000788	U	0.0330	0.000788	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
Pyrene	0.000675	U	0.00670	0.000675	mg/Kg		11/25/16 02:15	11/25/16 10:08	1
3,3'-Dichlorobenzidine	0.00353	U	0.0330	0.00353	mg/Kg		11/25/16 02:15	11/25/16 10:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*42 - 100*	*11/25/16 02:15*	*11/25/16 10:08*	*1*
2-Fluorophenol (Surr)	*60*		*21 - 107*	*11/25/16 02:15*	*11/25/16 10:08*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*20 - 134*	*11/25/16 02:15*	*11/25/16 10:08*	*1*
Nitrobenzene-d5 (Surr)	*61*		*35 - 109*	*11/25/16 02:15*	*11/25/16 10:08*	*1*
Phenol-d5 (Surr)	*61*		*29 - 105*	*11/25/16 02:15*	*11/25/16 10:08*	*1*
Terphenyl-d14 (Surr)	*76*		*36 - 113*	*11/25/16 02:15*	*11/25/16 10:08*	*1*

Lab Sample ID: LCS 180-195373/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 195402 — **Prep Batch: 195373**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	0.667	0.4610		mg/Kg		69	40 - 100
1,4-Dioxane	0.667	0.4336		mg/Kg		65	19 - 107
1-Methylnaphthalene	0.667	0.4603		mg/Kg		69	41 - 100
1,2,4,5-Tetrachlorobenzene	0.667	0.4730		mg/Kg		71	38 - 100
2-Chloronaphthalene	0.667	0.4498		mg/Kg		67	39 - 100
2-Chlorophenol	0.667	0.4554		mg/Kg		68	38 - 100
2,4-Dichlorophenol	0.667	0.4734		mg/Kg		71	40 - 100
2,4-Dimethylphenol	0.667	0.4951		mg/Kg		74	38 - 100
2,4-Dinitrophenol	1.33	1.065		mg/Kg		80	36 - 103
2,4-Dinitrotoluene	0.667	0.5605		mg/Kg		84	42 - 110
2,6-Dinitrotoluene	0.667	0.5449		mg/Kg		82	43 - 105
2-Methylnaphthalene	0.667	0.4627		mg/Kg		69	39 - 100
2-Methylphenol	0.667	0.4692		mg/Kg		70	38 - 100
Methylphenol, 3 & 4	0.667	0.4885		mg/Kg		73	40 - 100
2-Nitroaniline	0.667	0.5541		mg/Kg		83	33 - 118

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-195373/2-A
Matrix: Solid
Analysis Batch: 195402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Nitroaniline	0.667	0.5101		mg/Kg		77	42 - 105
4-Nitroaniline	0.667	0.5364		mg/Kg		80	33 - 115
2-Nitrophenol	0.667	0.5300		mg/Kg		79	40 - 103
4-Nitrophenol	1.33	1.194		mg/Kg		90	26 - 133
2,2'-oxybis[1-chloropropane]	0.667	0.4627		mg/Kg		69	23 - 104
2,3,4,6-Tetrachlorophenol	0.667	0.5129		mg/Kg		77	41 - 100
2,4,5-Trichlorophenol	0.667	0.5017		mg/Kg		75	42 - 100
2,4,6-Trichlorophenol	0.667	0.5025		mg/Kg		75	41 - 103
4-Chloro-3-methylphenol	0.667	0.5495		mg/Kg		82	40 - 104
4-Chlorophenyl phenyl ether	0.667	0.4971		mg/Kg		75	43 - 100
4,6-Dinitro-2-methylphenol	1.33	1.161		mg/Kg		87	45 - 102
Acenaphthene	0.667	0.4620		mg/Kg		69	39 - 100
Acenaphthylene	0.667	0.4546		mg/Kg		68	42 - 100
Acetophenone	0.667	0.4340		mg/Kg		65	31 - 100
Anthracene	0.667	0.4803		mg/Kg		72	43 - 100
Atrazine	0.667	0.4651		mg/Kg		70	21 - 108
Benzaldehyde	0.667	0.3684		mg/Kg		55	10 - 133
Benzo[a]anthracene	0.667	0.4936		mg/Kg		74	43 - 100
Benzo[b]fluoranthene	0.667	0.4528		mg/Kg		68	40 - 100
Benzo[k]fluoranthene	0.667	0.4431		mg/Kg		66	44 - 100
Benzo[g,h,i]perylene	0.667	0.4664		mg/Kg		70	41 - 102
Benzo[a]pyrene	0.667	0.4694		mg/Kg		70	43 - 100
Bis(2-chloroethoxy)methane	0.667	0.4339		mg/Kg		65	39 - 100
Bis(2-chloroethyl)ether	0.667	0.4214		mg/Kg		63	36 - 100
Bis(2-ethylhexyl) phthalate	0.667	0.5206		mg/Kg		78	43 - 106
4-Bromophenyl phenyl ether	0.667	0.5155		mg/Kg		77	44 - 100
Butyl benzyl phthalate	0.667	0.5038		mg/Kg		76	42 - 108
Caprolactam	0.667	0.5944		mg/Kg		89	37 - 112
Carbazole	0.667	0.4813		mg/Kg		72	42 - 100
Dibenz(a,h)anthracene	0.667	0.5138		mg/Kg		77	40 - 104
Dibenzofuran	0.667	0.4488		mg/Kg		67	42 - 100
Di-n-butyl phthalate	0.667	0.5176		mg/Kg		78	44 - 105
Di-n-octyl phthalate	0.667	0.5428		mg/Kg		81	41 - 103
Diethyl phthalate	0.667	0.4924		mg/Kg		74	41 - 101
Dimethyl phthalate	0.667	0.4985		mg/Kg		75	44 - 100
Fluoranthene	0.667	0.5142		mg/Kg		77	41 - 104
Fluorene	0.667	0.4728		mg/Kg		71	41 - 100
Hexachlorobenzene	0.667	0.4908		mg/Kg		74	43 - 100
Hexachlorobutadiene	0.667	0.4307		mg/Kg		65	35 - 100
Hexachlorocyclopentadiene	0.667	0.4544		mg/Kg		68	32 - 102
Hexachloroethane	0.667	0.3899		mg/Kg		58	35 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.4848		mg/Kg		73	41 - 104
Isophorone	0.667	0.4575		mg/Kg		69	36 - 102
Naphthalene	0.667	0.4452		mg/Kg		67	38 - 100
Nitrobenzene	0.667	0.4631		mg/Kg		69	34 - 100
N-Nitrosodiphenylamine	0.667	0.4964		mg/Kg		74	41 - 100
N-Nitrosodi-n-propylamine	0.667	0.4815		mg/Kg		72	37 - 100
Pentachlorophenol	1.33	0.9957		mg/Kg		75	34 - 102

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-195373/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 195402 — **Prep Batch: 195373**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenanthrene	0.667	0.4445		mg/Kg		67	41 - 100
Phenol	0.667	0.4512		mg/Kg		68	36 - 100
Pyrene	0.667	0.4162		mg/Kg		62	42 - 100
3,3'-Dichlorobenzidine	0.667	0.4304		mg/Kg		65	30 - 103

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*68*		*42 - 100*
2-Fluorophenol (Surr)	*71*		*21 - 107*
2,4,6-Tribromophenol (Surr)	*87*		*20 - 134*
Nitrobenzene-d5 (Surr)	*74*		*35 - 109*
Phenol-d5 (Surr)	*70*		*29 - 105*
Terphenyl-d14 (Surr)	*74*		*36 - 113*

Lab Sample ID: 180-61122-1 MS — **Client Sample ID: BGSB22-(0.0-0.5)-161122-S**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 195402 — **Prep Batch: 195373**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	0.00322	U	0.720	0.4629		mg/Kg	☼	64	40 - 100
1,4-Dioxane	0.00413	U	0.720	0.2815		mg/Kg	☼	39	19 - 107
1-Methylnaphthalene	0.000769	U	0.720	0.4384		mg/Kg	☼	61	41 - 100
1,2,4,5-Tetrachlorobenzene	0.00273	U	0.720	0.4481		mg/Kg	☼	62	38 - 100
2-Chloronaphthalene	0.000752	U	0.720	0.4540		mg/Kg	☼	63	39 - 100
2-Chlorophenol	0.00295	U	0.720	0.4333		mg/Kg	☼	60	38 - 100
2,4-Dichlorophenol	0.000723	U	0.720	0.4608		mg/Kg	☼	64	40 - 100
2,4-Dimethylphenol	0.00564	U	0.720	0.4074		mg/Kg	☼	57	38 - 100
2,4-Dinitrophenol	0.0429	U	1.44	0.5790		mg/Kg	☼	40	36 - 103
2,4-Dinitrotoluene	0.00291	U	0.720	0.5892		mg/Kg	☼	82	42 - 110
2,6-Dinitrotoluene	0.00372	U	0.720	0.5662		mg/Kg	☼	79	43 - 105
2-Methylnaphthalene	0.00137	J	0.720	0.4409		mg/Kg	☼	61	39 - 100
2-Methylphenol	0.00252	U	0.720	0.4623		mg/Kg	☼	64	38 - 100
Methylphenol, 3 & 4	0.00353	U	0.720	0.4938		mg/Kg	☼	69	40 - 100
2-Nitroaniline	0.0161	U	0.720	0.5845		mg/Kg	☼	81	33 - 118
3-Nitroaniline	0.0148	U	0.720	0.4917		mg/Kg	☼	68	42 - 105
4-Nitroaniline	0.0146	U	0.720	0.5175		mg/Kg	☼	72	33 - 115
2-Nitrophenol	0.00397	U	0.720	0.4789		mg/Kg	☼	66	40 - 103
4-Nitrophenol	0.0131	U	1.44	1.024		mg/Kg	☼	71	26 - 133
2,2'-oxybis[1-chloropropane]	0.000778	U	0.720	0.4441		mg/Kg	☼	62	23 - 104
2,3,4,6-Tetrachlorophenol	0.00232	U	0.720	0.5199		mg/Kg	☼	72	41 - 100
2,4,5-Trichlorophenol	0.00385	U	0.720	0.5317		mg/Kg	☼	74	42 - 100
2,4,6-Trichlorophenol	0.00540	U	0.720	0.5191		mg/Kg	☼	72	41 - 103
4-Chloro-3-methylphenol	0.00332	U	0.720	0.5486		mg/Kg	☼	76	40 - 104
4-Chlorophenyl phenyl ether	0.00401	U	0.720	0.5065		mg/Kg	☼	70	43 - 100
4,6-Dinitro-2-methylphenol	0.0145	U	1.44	0.9143		mg/Kg	☼	63	45 - 102
Acenaphthene	0.000692	U	0.720	0.4682		mg/Kg	☼	65	39 - 100
Acenaphthylene	0.00396	J	0.720	0.4619		mg/Kg	☼	64	42 - 100
Acetophenone	0.0169	J	0.720	0.4677		mg/Kg	☼	63	31 - 100
Anthracene	0.00362	J	0.720	0.4840		mg/Kg	☼	67	43 - 100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-61122-1 MS — **Client Sample ID: BGSB22-(0.0-0.5)-161122-S**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 195402 — **Prep Batch: 195373**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	0.00351	U	0.720	0.3695		mg/Kg	☼	51	21 - 108
Benzaldehyde	0.00751	J	0.720	0.4077		mg/Kg	☼	56	10 - 133
Benzo[a]anthracene	0.0140		0.720	0.5363		mg/Kg	☼	73	43 - 100
Benzo[b]fluoranthene	0.0202		0.720	0.4487		mg/Kg	☼	59	40 - 100
Benzo[k]fluoranthene	0.00857		0.720	0.4090		mg/Kg	☼	56	44 - 100
Benzo[g,h,i]perylene	0.0165		0.720	0.5336		mg/Kg	☼	72	41 - 102
Benzo[a]pyrene	0.0132		0.720	0.4528		mg/Kg	☼	61	43 - 100
Bis(2-chloroethoxy)methane	0.00237	U	0.720	0.4118		mg/Kg	☼	57	39 - 100
Bis(2-chloroethyl)ether	0.000967	U	0.720	0.3864		mg/Kg	☼	54	36 - 100
Bis(2-ethylhexyl) phthalate	0.0310	J	0.720	0.6488		mg/Kg	☼	86	43 - 106
4-Bromophenyl phenyl ether	0.00314	U	0.720	0.5054		mg/Kg	☼	70	44 - 100
Butyl benzyl phthalate	0.00591	J	0.720	0.5228		mg/Kg	☼	72	42 - 108
Caprolactam	0.0272	U F1	0.720	0.05352	J F1	mg/Kg	☼	7	37 - 112
Carbazole	0.00176	J	0.720	0.4961		mg/Kg	☼	69	42 - 100
Dibenz(a,h)anthracene	0.00336	J	0.720	0.5640		mg/Kg	☼	78	40 - 104
Dibenzofuran	0.00355	U	0.720	0.4559		mg/Kg	☼	63	42 - 100
Di-n-butyl phthalate	0.00485	J	0.720	0.5481		mg/Kg	☼	75	44 - 105
Di-n-octyl phthalate	0.00380	U	0.720	0.5079		mg/Kg	☼	71	41 - 103
Diethyl phthalate	0.00394	U	0.720	0.5179		mg/Kg	☼	72	41 - 101
Dimethyl phthalate	0.00393	U	0.720	0.5192		mg/Kg	☼	72	44 - 100
Fluoranthene	0.0179		0.720	0.5278		mg/Kg	☼	71	41 - 104
Fluorene	0.000950	U	0.720	0.4841		mg/Kg	☼	67	41 - 100
Hexachlorobenzene	0.000768	U	0.720	0.4817		mg/Kg	☼	67	43 - 100
Hexachlorobutadiene	0.000807	U	0.720	0.3781		mg/Kg	☼	52	35 - 100
Hexachlorocyclopentadiene	0.00389	U F1	0.720	0.1241	F1	mg/Kg	☼	17	32 - 102
Hexachloroethane	0.00259	U	0.720	0.3251		mg/Kg	☼	45	35 - 100
Indeno[1,2,3-cd]pyrene	0.0118		0.720	0.5310		mg/Kg	☼	72	41 - 104
Isophorone	0.00272	U	0.720	0.4313		mg/Kg	☼	60	36 - 102
Naphthalene	0.000621	U	0.720	0.4173		mg/Kg	☼	58	38 - 100
Nitrobenzene	0.00300	U	0.720	0.4035		mg/Kg	☼	56	34 - 100
N-Nitrosodiphenylamine	0.00334	U	0.720	0.4680		mg/Kg	☼	65	41 - 100
N-Nitrosodi-n-propylamine	0.000845	U	0.720	0.4940		mg/Kg	☼	69	37 - 100
Pentachlorophenol	0.00322	U	1.44	0.8971		mg/Kg	☼	62	34 - 102
Phenanthrene	0.00554	J	0.720	0.4587		mg/Kg	☼	63	41 - 100
Phenol	0.000852	U	0.720	0.4057		mg/Kg	☼	56	36 - 100
Pyrene	0.0168		0.720	0.4130		mg/Kg	☼	55	42 - 100
3,3'-Dichlorobenzidine	0.00381	U F1	0.720	0.1450	F1	mg/Kg	☼	20	30 - 103

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*61*		*42 - 100*
2-Fluorophenol (Surr)	*52*		*21 - 107*
2,4,6-Tribromophenol (Surr)	*79*		*20 - 134*
Nitrobenzene-d5 (Surr)	*59*		*35 - 109*
Phenol-d5 (Surr)	*60*		*29 - 105*
Terphenyl-d14 (Surr)	*62*		*36 - 113*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-61122-1 MSD — **Client Sample ID: BGSB22-(0.0-0.5)-161122-S**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 195402 — **Prep Batch: 195373**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl	0.00322	U	0.716	0.5114		mg/Kg	☼	71	40 - 100	10	20
1,4-Dioxane	0.00413	U	0.716	0.3058		mg/Kg	☼	43	19 - 107	8	20
1-Methylnaphthalene	0.000769	U	0.716	0.4835		mg/Kg	☼	68	41 - 100	10	20
1,2,4,5-Tetrachlorobenzene	0.00273	U	0.716	0.5022		mg/Kg	☼	70	38 - 100	11	20
2-Chloronaphthalene	0.000752	U	0.716	0.5017		mg/Kg	☼	70	39 - 100	10	20
2-Chlorophenol	0.00295	U	0.716	0.4669		mg/Kg	☼	65	38 - 100	7	20
2,4-Dichlorophenol	0.000723	U	0.716	0.4978		mg/Kg	☼	70	40 - 100	8	20
2,4-Dimethylphenol	0.00564	U	0.716	0.4546		mg/Kg	☼	64	38 - 100	11	20
2,4-Dinitrophenol	0.0429	U	1.43	0.6500		mg/Kg	☼	45	36 - 103	12	23
2,4-Dinitrotoluene	0.00291	U	0.716	0.6584		mg/Kg	☼	92	42 - 110	11	21
2,6-Dinitrotoluene	0.00372	U	0.716	0.6175		mg/Kg	☼	86	43 - 105	9	20
2-Methylnaphthalene	0.00137	J	0.716	0.4866		mg/Kg	☼	68	39 - 100	10	21
2-Methylphenol	0.00252	U	0.716	0.5014		mg/Kg	☼	70	38 - 100	8	20
Methylphenol, 3 & 4	0.00353	U	0.716	0.5340		mg/Kg	☼	75	40 - 100	8	20
2-Nitroaniline	0.0161	U	0.716	0.6513		mg/Kg	☼	91	33 - 118	11	23
3-Nitroaniline	0.0148	U	0.716	0.5564		mg/Kg	☼	78	42 - 105	12	20
4-Nitroaniline	0.0146	U	0.716	0.5669		mg/Kg	☼	79	33 - 115	9	20
2-Nitrophenol	0.00397	U	0.716	0.5280		mg/Kg	☼	74	40 - 103	10	22
4-Nitrophenol	0.0131	U	1.43	1.154		mg/Kg	☼	81	26 - 133	12	20
2,2'-oxybis[1-chloropropane]	0.000778	U	0.716	0.4758		mg/Kg	☼	66	23 - 104	7	20
2,3,4,6-Tetrachlorophenol	0.00232	U	0.716	0.5856		mg/Kg	☼	82	41 - 100	12	25
2,4,5-Trichlorophenol	0.00385	U	0.716	0.5850		mg/Kg	☼	82	42 - 100	10	22
2,4,6-Trichlorophenol	0.00540	U	0.716	0.5742		mg/Kg	☼	80	41 - 103	10	25
4-Chloro-3-methylphenol	0.00332	U	0.716	0.6064		mg/Kg	☼	85	40 - 104	10	20
4-Chlorophenyl phenyl ether	0.00401	U	0.716	0.5537		mg/Kg	☼	77	43 - 100	9	22
4,6-Dinitro-2-methylphenol	0.0145	U	1.43	1.012		mg/Kg	☼	71	45 - 102	10	20
Acenaphthene	0.000692	U	0.716	0.5187		mg/Kg	☼	72	39 - 100	10	20
Acenaphthylene	0.00396	J	0.716	0.5150		mg/Kg	☼	71	42 - 100	11	20
Acetophenone	0.0169	J	0.716	0.5056		mg/Kg	☼	68	31 - 100	8	20
Anthracene	0.00362	J	0.716	0.5344		mg/Kg	☼	74	43 - 100	10	20
Atrazine	0.00351	U	0.716	0.3956		mg/Kg	☼	55	21 - 108	7	20
Benzaldehyde	0.00751	J	0.716	0.4511		mg/Kg	☼	62	10 - 133	10	20
Benzo[a]anthracene	0.0140		0.716	0.5818		mg/Kg	☼	79	43 - 100	8	20
Benzo[b]fluoranthene	0.0202		0.716	0.4814		mg/Kg	☼	64	40 - 100	7	20
Benzo[k]fluoranthene	0.00857		0.716	0.4538		mg/Kg	☼	62	44 - 100	10	20
Benzo[g,h,i]perylene	0.0165		0.716	0.5850		mg/Kg	☼	79	41 - 102	9	20
Benzo[a]pyrene	0.0132		0.716	0.4914		mg/Kg	☼	67	43 - 100	8	20
Bis(2-chloroethoxy)methane	0.00237	U	0.716	0.4518		mg/Kg	☼	63	39 - 100	9	20
Bis(2-chloroethyl)ether	0.000967	U	0.716	0.4156		mg/Kg	☼	58	36 - 100	7	20
Bis(2-ethylhexyl) phthalate	0.0310	J	0.716	0.6854		mg/Kg	☼	91	43 - 106	5	20
4-Bromophenyl phenyl ether	0.00314	U	0.716	0.5498		mg/Kg	☼	77	44 - 100	8	20
Butyl benzyl phthalate	0.00591	J	0.716	0.5625		mg/Kg	☼	78	42 - 108	7	20
Caprolactam	0.0272	U F1	0.716	0.06227	J F1	mg/Kg	☼	9	37 - 112	15	20
Carbazole	0.00176	J	0.716	0.5358		mg/Kg	☼	75	42 - 100	8	20
Dibenz(a,h)anthracene	0.00336	J	0.716	0.6075		mg/Kg	☼	84	40 - 104	7	26
Dibenzofuran	0.00355	U	0.716	0.5018		mg/Kg	☼	70	42 - 100	10	23
Di-n-butyl phthalate	0.00485	J	0.716	0.6024		mg/Kg	☼	84	44 - 105	9	20
Di-n-octyl phthalate	0.00380	U	0.716	0.5547		mg/Kg	☼	78	41 - 103	9	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-61122-1 MSD — **Client Sample ID: BGSB22-(0.0-0.5)-161122-S**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 195402 — **Prep Batch: 195373**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diethyl phthalate	0.00394	U	0.716	0.5718		mg/Kg	☼	80	41 - 101	10	20
Dimethyl phthalate	0.00393	U	0.716	0.5798		mg/Kg	☼	81	44 - 100	11	23
Fluoranthene	0.0179		0.716	0.5794		mg/Kg	☼	78	41 - 104	9	20
Fluorene	0.000950	U	0.716	0.5305		mg/Kg	☼	74	41 - 100	9	21
Hexachlorobenzene	0.000768	U	0.716	0.5173		mg/Kg	☼	72	43 - 100	7	21
Hexachlorobutadiene	0.000807	U	0.716	0.4141		mg/Kg	☼	58	35 - 100	9	20
Hexachlorocyclopentadiene	0.00389	U F1	0.716	0.1470	F1	mg/Kg	☼	21	32 - 102	17	30
Hexachloroethane	0.00259	U	0.716	0.3547		mg/Kg	☼	50	35 - 100	9	20
Indeno[1,2,3-cd]pyrene	0.0118		0.716	0.5814		mg/Kg	☼	80	41 - 104	9	25
Isophorone	0.00272	U	0.716	0.4732		mg/Kg	☼	66	36 - 102	9	20
Naphthalene	0.000621	U	0.716	0.4518		mg/Kg	☼	63	38 - 100	8	20
Nitrobenzene	0.00300	U	0.716	0.4481		mg/Kg	☼	63	34 - 100	10	20
N-Nitrosodiphenylamine	0.00334	U	0.716	0.5084		mg/Kg	☼	71	41 - 100	8	20
N-Nitrosodi-n-propylamine	0.000845	U	0.716	0.5289		mg/Kg	☼	74	37 - 100	7	20
Pentachlorophenol	0.00322	U	1.43	1.023		mg/Kg	☼	71	34 - 102	13	20
Phenanthrene	0.00554	J	0.716	0.5003		mg/Kg	☼	69	41 - 100	9	20
Phenol	0.000852	U	0.716	0.4412		mg/Kg	☼	62	36 - 100	8	20
Pyrene	0.0168		0.716	0.4467		mg/Kg	☼	60	42 - 100	8	21
3,3'-Dichlorobenzidine	0.00381	U F1	0.716	0.1628	F1	mg/Kg	☼	23	30 - 103	12	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*67*		*42 - 100*
2-Fluorophenol (Surr)	*56*		*21 - 107*
2,4,6-Tribromophenol (Surr)	*88*		*20 - 134*
Nitrobenzene-d5 (Surr)	*65*		*35 - 109*
Phenol-d5 (Surr)	*66*		*29 - 105*
Terphenyl-d14 (Surr)	*67*		*36 - 113*

Method: 8081B_LL - Organochlorine Pesticides (GC)

Lab Sample ID: MB 180-195769/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 195949 — **Prep Batch: 195769**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.00000880	U	0.0000833	0.00000880	mg/Kg		11/30/16 04:24	12/01/16 13:44	1
alpha-BHC	0.0000245	U	0.0000833	0.0000245	mg/Kg		11/30/16 04:24	12/01/16 13:44	1
beta-BHC	0.0000187	U	0.0000833	0.0000187	mg/Kg		11/30/16 04:24	12/01/16 13:44	1
delta-BHC	0.0000297	U	0.0000833	0.0000297	mg/Kg		11/30/16 04:24	12/01/16 13:44	1
gamma-BHC (Lindane)	0.0000172	U	0.0000833	0.0000172	mg/Kg		11/30/16 04:24	12/01/16 13:44	1
cis-Chlordane	0.0000134	U	0.0000833	0.0000134	mg/Kg		11/30/16 04:24	12/01/16 13:44	1
trans-Chlordane	0.00000650	U	0.0000833	0.00000650	mg/Kg		11/30/16 04:24	12/01/16 13:44	1
4,4'-DDD	0.00000850	U	0.0000833	0.00000850	mg/Kg		11/30/16 04:24	12/01/16 13:44	1
4,4'-DDE	0.0000265	U	0.0000833	0.0000265	mg/Kg		11/30/16 04:24	12/01/16 13:44	1
4,4'-DDT	0.00000850	U	0.0000833	0.00000850	mg/Kg		11/30/16 04:24	12/01/16 13:44	1

Method: 8081B_LL - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 180-195769/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 195949 — **Prep Batch: 195769**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.00000790	U	0.0000833	0.00000790	mg/Kg		11/30/16 04:24	12/01/16 13:44	1
Endosulfan I	0.00000530	U	0.0000833	0.00000530	mg/Kg		11/30/16 04:24	12/01/16 13:44	1
Endosulfan II	0.0000255	U	0.0000833	0.0000255	mg/Kg		11/30/16 04:24	12/01/16 13:44	1
Endosulfan sulfate	0.0000106	U	0.0000833	0.0000106	mg/Kg		11/30/16 04:24	12/01/16 13:44	1
Endrin	0.0000243	U	0.0000833	0.0000243	mg/Kg		11/30/16 04:24	12/01/16 13:44	1
Endrin aldehyde	0.0000245	U	0.0000833	0.0000245	mg/Kg		11/30/16 04:24	12/01/16 13:44	1
Endrin ketone	0.0000278	U	0.0000833	0.0000278	mg/Kg		11/30/16 04:24	12/01/16 13:44	1
Heptachlor	0.00000720	U	0.0000833	0.00000720	mg/Kg		11/30/16 04:24	12/01/16 13:44	1
Heptachlor epoxide	0.0000100	U	0.0000833	0.0000100	mg/Kg		11/30/16 04:24	12/01/16 13:44	1
Methoxychlor	0.0000242	U	0.0000833	0.0000242	mg/Kg		11/30/16 04:24	12/01/16 13:44	1
Toxaphene	0.00274	U	0.00333	0.00274	mg/Kg		11/30/16 04:24	12/01/16 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*32 - 114*	*11/30/16 04:24*	*12/01/16 13:44*	*1*
Tetrachloro-m-xylene	*76*		*32 - 114*	*11/30/16 04:24*	*12/01/16 13:44*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*26 - 143*	*11/30/16 04:24*	*12/01/16 13:44*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*26 - 143*	*11/30/16 04:24*	*12/01/16 13:44*	*1*

Lab Sample ID: LCS 180-195769/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 195949 — **Prep Batch: 195769**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.00167	0.001366		mg/Kg		82	42 - 114
alpha-BHC	0.00167	0.001256		mg/Kg		75	44 - 100
beta-BHC	0.00167	0.001220		mg/Kg		73	32 - 110
delta-BHC	0.00167	0.0007284		mg/Kg		44	20 - 106
gamma-BHC (Lindane)	0.00167	0.001300		mg/Kg		78	44 - 100
cis-Chlordane	0.00167	0.001356		mg/Kg		81	38 - 112
trans-Chlordane	0.00167	0.001394		mg/Kg		84	37 - 113
4,4'-DDD	0.00167	0.001751		mg/Kg		105	41 - 111
4,4'-DDE	0.00167	0.001434		mg/Kg		86	39 - 119
4,4'-DDT	0.00167	0.0007379		mg/Kg		44	25 - 112
Dieldrin	0.00167	0.001539		mg/Kg		92	38 - 116
Endosulfan I	0.00167	0.001329		mg/Kg		80	39 - 114
Endosulfan II	0.00167	0.001407		mg/Kg		84	37 - 108
Endosulfan sulfate	0.00167	0.001271		mg/Kg		76	29 - 100
Endrin	0.00167	0.001437		mg/Kg		86	38 - 114
Endrin aldehyde	0.00167	0.001316		mg/Kg		79	25 - 105
Endrin ketone	0.00167	0.001301		mg/Kg		78	31 - 113
Heptachlor	0.00167	0.001367		mg/Kg		82	47 - 114
Heptachlor epoxide	0.00167	0.001368		mg/Kg		82	40 - 115
Methoxychlor	0.00167	0.0008964		mg/Kg		54	26 - 119

Method: 8081B_LL - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 180-195769/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 195949 — **Prep Batch: 195769**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	*83*		*32 - 114*
Tetrachloro-m-xylene	*74*		*32 - 114*
DCB Decachlorobiphenyl (Surr)	*91*		*26 - 143*
DCB Decachlorobiphenyl (Surr)	*99*		*26 - 143*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 180-195524/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 195866 — **Prep Batch: 195524**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.00251	U	0.0200	0.00251	mg/Kg		11/27/16 09:29	11/30/16 14:50	20
2,4-D	0.00547	U	0.0800	0.00547	mg/Kg		11/27/16 09:29	11/30/16 14:50	20
Silvex (2,4,5-TP)	0.00210	U	0.0200	0.00210	mg/Kg		11/27/16 09:29	11/30/16 14:50	20
Dalapon	0.00710	U	0.0900	0.00710	mg/Kg		11/27/16 09:29	11/30/16 14:50	20
2,4-DB	0.00612	U	0.0800	0.00612	mg/Kg		11/27/16 09:29	11/30/16 14:50	20
Dicamba	0.00479	U	0.0400	0.00479	mg/Kg		11/27/16 09:29	11/30/16 14:50	20
Dichlorprop	0.00948	U	0.0800	0.00948	mg/Kg		11/27/16 09:29	11/30/16 14:50	20
Dinoseb	0.00455	U	0.0120	0.00455	mg/Kg		11/27/16 09:29	11/30/16 14:50	20
MCPA	1.65	U	8.00	1.65	mg/Kg		11/27/16 09:29	11/30/16 14:50	20
MCPP	1.61	U	8.00	1.61	mg/Kg		11/27/16 09:29	11/30/16 14:50	20

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	*43*		*19 - 122*	*11/27/16 09:29*	*11/30/16 14:50*	*20*
2,4-Dichlorophenylacetic acid	*46*		*19 - 122*	*11/27/16 09:29*	*11/30/16 14:50*	*20*

Lab Sample ID: LCS 180-195524/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 195866 — **Prep Batch: 195524**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	0.100	0.1277	*	mg/Kg		128	15 - 114
2,4-D	0.400	0.4161	*	mg/Kg		104	10 - 103
Silvex (2,4,5-TP)	0.100	0.1363	*	mg/Kg		136	27 - 126
Dalapon	0.400	0.3055		mg/Kg		76	10 - 123
2,4-DB	0.400	0.5835	*	mg/Kg		146	15 - 123
Dicamba	0.200	0.1857		mg/Kg		93	24 - 130
Dichlorprop	0.400	0.4641		mg/Kg		116	30 - 120
Dinoseb	0.400	0.6901	*	mg/Kg		173	10 - 150
MCPA	40.0	53.07	*	mg/Kg		133	10 - 132
MCPP	40.0	67.02	*	mg/Kg		168	10 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	*99*		*19 - 122*
2,4-Dichlorophenylacetic acid	*103*		*19 - 122*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 180-195582/1-A
Matrix: Solid
Analysis Batch: 196391

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.00820	U	0.100	0.00820	mg/Kg		11/28/16 07:42	12/05/16 18:07	1
Aluminum	0.577	U	3.00	0.577	mg/Kg		11/28/16 07:42	12/05/16 18:07	1
Arsenic	0.0144	U	0.100	0.0144	mg/Kg		11/28/16 07:42	12/05/16 18:07	1
Boron	0.319	U	2.00	0.319	mg/Kg		11/28/16 07:42	12/05/16 18:07	1
Barium	0.0148	U	1.00	0.0148	mg/Kg		11/28/16 07:42	12/05/16 18:07	1
Beryllium	0.00750	U	0.100	0.00750	mg/Kg		11/28/16 07:42	12/05/16 18:07	1
Cadmium	0.0130	U	0.100	0.0130	mg/Kg		11/28/16 07:42	12/05/16 18:07	1
Cobalt	0.00250	U	0.0500	0.00250	mg/Kg		11/28/16 07:42	12/05/16 18:07	1
Chromium	0.0522	U	0.200	0.0522	mg/Kg		11/28/16 07:42	12/05/16 18:07	1
Copper	0.0521	U	0.200	0.0521	mg/Kg		11/28/16 07:42	12/05/16 18:07	1
Manganese	0.0355	U	0.500	0.0355	mg/Kg		11/28/16 07:42	12/05/16 18:07	1
Nickel	0.0389	U	0.100	0.0389	mg/Kg		11/28/16 07:42	12/05/16 18:07	1
Lead	0.00910	U	0.100	0.00910	mg/Kg		11/28/16 07:42	12/05/16 18:07	1
Antimony	0.0287	U	0.200	0.0287	mg/Kg		11/28/16 07:42	12/05/16 18:07	1
Selenium	0.0442	U	0.500	0.0442	mg/Kg		11/28/16 07:42	12/05/16 18:07	1
Vanadium	0.0700	U	0.100	0.0700	mg/Kg		11/28/16 07:42	12/05/16 18:07	1
Zinc	0.194	U	0.500	0.194	mg/Kg		11/28/16 07:42	12/05/16 18:07	1
Thallium	0.00260	U	0.100	0.00260	mg/Kg		11/28/16 07:42	12/05/16 18:07	1

Lab Sample ID: LCS 180-195582/2-A
Matrix: Solid
Analysis Batch: 196391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	5.00	4.962		mg/Kg		99	80 - 120
Aluminum	200	195.6		mg/Kg		98	80 - 120
Arsenic	4.00	3.849		mg/Kg		96	80 - 120
Boron	100	99.29		mg/Kg		99	80 - 120
Barium	200	194.3		mg/Kg		97	80 - 120
Beryllium	5.00	4.816		mg/Kg		96	80 - 120
Cadmium	5.00	4.980		mg/Kg		100	80 - 120
Cobalt	50.0	48.52		mg/Kg		97	80 - 120
Chromium	20.0	19.01		mg/Kg		95	80 - 120
Copper	25.0	25.10		mg/Kg		100	80 - 120
Manganese	50.0	51.11		mg/Kg		102	80 - 120
Nickel	50.0	49.30		mg/Kg		99	80 - 120
Lead	2.00	2.028		mg/Kg		101	80 - 120
Antimony	50.0	50.01		mg/Kg		100	80 - 120
Selenium	1.00	1.076		mg/Kg		108	80 - 120
Vanadium	50.0	46.53		mg/Kg		93	80 - 120
Zinc	50.0	46.93		mg/Kg		94	80 - 120
Thallium	5.00	5.077		mg/Kg		102	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-61122-1 MS — **Client Sample ID: BGSB22-(0.0-0.5)-161122-S**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 196391 — **Prep Batch: 195582**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.0592	J	5.28	4.651		mg/Kg	☼	87	75 - 125
Aluminum	5750		211	11670	4	mg/Kg	☼	2804	75 - 125
Arsenic	3.01	F1	4.22	5.740	F1	mg/Kg	☼	65	75 - 125
Boron	3.01		106	101.1		mg/Kg	☼	93	75 - 125
Barium	140	F1	211	258.7	F1	mg/Kg	☼	56	75 - 125
Beryllium	0.430		5.28	5.212		mg/Kg	☼	91	75 - 125
Cadmium	0.294		5.28	5.003		mg/Kg	☼	89	75 - 125
Cobalt	7.81		52.8	47.51		mg/Kg	☼	75	75 - 125
Chromium	7.50		21.1	28.69		mg/Kg	☼	100	75 - 125
Copper	10.1		26.4	32.61		mg/Kg	☼	85	75 - 125
Manganese	404		52.8	141.8	4	mg/Kg	☼	-496	75 - 125
Nickel	6.57		52.8	51.45		mg/Kg	☼	85	75 - 125
Lead	67.5		2.11	63.93	4	mg/Kg	☼	-169	75 - 125
Antimony	0.379	F1	52.8	38.56	F1	mg/Kg	☼	72	75 - 125
Selenium	0.512	J	1.06	1.408		mg/Kg	☼	85	75 - 125
Vanadium	17.9		52.8	59.28		mg/Kg	☼	78	75 - 125
Zinc	110	F1	52.8	146.8	F1	mg/Kg	☼	69	75 - 125
Thallium	0.0623	J	5.28	4.793		mg/Kg	☼	90	75 - 125

Lab Sample ID: 180-61122-1 MSD — **Client Sample ID: BGSB22-(0.0-0.5)-161122-S**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 196391 — **Prep Batch: 195582**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.0592	J	5.49	4.863		mg/Kg	☼	87	75 - 125	4	20
Aluminum	5750		220	12370	4	mg/Kg	☼	3014	75 - 125	6	20
Arsenic	3.01	F1	4.39	5.669	F1	mg/Kg	☼	61	75 - 125	1	20
Boron	3.01		110	103.7		mg/Kg	☼	92	75 - 125	3	20
Barium	140	F1	220	271.6	F1	mg/Kg	☼	60	75 - 125	5	20
Beryllium	0.430		5.49	5.400		mg/Kg	☼	90	75 - 125	4	20
Cadmium	0.294		5.49	5.253		mg/Kg	☼	90	75 - 125	5	20
Cobalt	7.81		54.9	49.37		mg/Kg	☼	76	75 - 125	4	20
Chromium	7.50		22.0	29.49		mg/Kg	☼	100	75 - 125	3	20
Copper	10.1		27.5	33.88		mg/Kg	☼	87	75 - 125	4	20
Manganese	404		54.9	146.5	4	mg/Kg	☼	-468	75 - 125	3	20
Nickel	6.57		54.9	53.25		mg/Kg	☼	85	75 - 125	3	20
Lead	67.5		2.20	62.97	4	mg/Kg	☼	-206	75 - 125	2	20
Antimony	0.379	F1	54.9	40.39	F1	mg/Kg	☼	73	75 - 125	5	20
Selenium	0.512	J	1.10	1.378		mg/Kg	☼	79	75 - 125	2	20
Vanadium	17.9		54.9	60.61		mg/Kg	☼	78	75 - 125	2	20
Zinc	110	F1	54.9	152.8		mg/Kg	☼	77	75 - 125	4	20
Thallium	0.0623	J	5.49	5.019		mg/Kg	☼	90	75 - 125	5	20

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: U.S. Oil Recovery Superfund Site

TestAmerica Job ID: 180-61122-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-195631/1-A
Matrix: Solid
Analysis Batch: 196111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195631

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00739	U	0.0330	0.00739	mg/Kg		11/28/16 12:49	12/02/16 08:03	1

Lab Sample ID: LCS 180-195631/2-A
Matrix: Solid
Analysis Batch: 196111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195631

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.3331		mg/Kg		80	80 - 120

GC/MS Semi VOA

Prep Batch: 195373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-61122-1	BGSB22-(0.0-0.5)-161122-S	Total/NA	Solid	3541	
180-61122-2	BGSB22-(1-2)-161122-S	Total/NA	Solid	3541	
180-61122-3	BGSB10-(0.0-0.5)-161122-S	Total/NA	Solid	3541	
180-61122-4	BGSB10-(1-2)-161122-S	Total/NA	Solid	3541	
MB 180-195373/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-195373/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-61122-1 MS	BGSB22-(0.0-0.5)-161122-S	Total/NA	Solid	3541	
180-61122-1 MSD	BGSB22-(0.0-0.5)-161122-S	Total/NA	Solid	3541	

Analysis Batch: 195402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-61122-1	BGSB22-(0.0-0.5)-161122-S	Total/NA	Solid	8270D LL	195373
180-61122-2	BGSB22-(1-2)-161122-S	Total/NA	Solid	8270D LL	195373
180-61122-3	BGSB10-(0.0-0.5)-161122-S	Total/NA	Solid	8270D LL	195373
180-61122-4	BGSB10-(1-2)-161122-S	Total/NA	Solid	8270D LL	195373
MB 180-195373/1-A	Method Blank	Total/NA	Solid	8270D LL	195373
LCS 180-195373/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	195373
180-61122-1 MS	BGSB22-(0.0-0.5)-161122-S	Total/NA	Solid	8270D LL	195373
180-61122-1 MSD	BGSB22-(0.0-0.5)-161122-S	Total/NA	Solid	8270D LL	195373

GC Semi VOA

Prep Batch: 195524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-61122-1	BGSB22-(0.0-0.5)-161122-S	Total/NA	Solid	8151A	
180-61122-2	BGSB22-(1-2)-161122-S	Total/NA	Solid	8151A	
180-61122-3	BGSB10-(0.0-0.5)-161122-S	Total/NA	Solid	8151A	
180-61122-4	BGSB10-(1-2)-161122-S	Total/NA	Solid	8151A	
MB 180-195524/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 180-195524/2-A	Lab Control Sample	Total/NA	Solid	8151A	

Prep Batch: 195769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-61122-1	BGSB22-(0.0-0.5)-161122-S	Total/NA	Solid	3541	
180-61122-2	BGSB22-(1-2)-161122-S	Total/NA	Solid	3541	
180-61122-3	BGSB10-(0.0-0.5)-161122-S	Total/NA	Solid	3541	
180-61122-4	BGSB10-(1-2)-161122-S	Total/NA	Solid	3541	
MB 180-195769/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-195769/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 195866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-61122-1	BGSB22-(0.0-0.5)-161122-S	Total/NA	Solid	8151A	195524
180-61122-2	BGSB22-(1-2)-161122-S	Total/NA	Solid	8151A	195524
180-61122-3	BGSB10-(0.0-0.5)-161122-S	Total/NA	Solid	8151A	195524
180-61122-4	BGSB10-(1-2)-161122-S	Total/NA	Solid	8151A	195524
MB 180-195524/1-A	Method Blank	Total/NA	Solid	8151A	195524
LCS 180-195524/2-A	Lab Control Sample	Total/NA	Solid	8151A	195524

GC Semi VOA (Continued)

Analysis Batch: 195949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-61122-1	BGSB22-(0.0-0.5)-161122-S	Total/NA	Solid	8081B_LL	195769
180-61122-2	BGSB22-(1-2)-161122-S	Total/NA	Solid	8081B_LL	195769
180-61122-3	BGSB10-(0.0-0.5)-161122-S	Total/NA	Solid	8081B_LL	195769
180-61122-4	BGSB10-(1-2)-161122-S	Total/NA	Solid	8081B_LL	195769
MB 180-195769/1-A	Method Blank	Total/NA	Solid	8081B_LL	195769
LCS 180-195769/2-A	Lab Control Sample	Total/NA	Solid	8081B_LL	195769

Metals

Prep Batch: 195582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-61122-1	BGSB22-(0.0-0.5)-161122-S	Total/NA	Solid	3050B	
180-61122-2	BGSB22-(1-2)-161122-S	Total/NA	Solid	3050B	
180-61122-3	BGSB10-(0.0-0.5)-161122-S	Total/NA	Solid	3050B	
180-61122-4	BGSB10-(1-2)-161122-S	Total/NA	Solid	3050B	
MB 180-195582/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-195582/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-61122-1 MS	BGSB22-(0.0-0.5)-161122-S	Total/NA	Solid	3050B	
180-61122-1 MSD	BGSB22-(0.0-0.5)-161122-S	Total/NA	Solid	3050B	

Prep Batch: 195631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-61122-1	BGSB22-(0.0-0.5)-161122-S	Total/NA	Solid	7471B	
180-61122-2	BGSB22-(1-2)-161122-S	Total/NA	Solid	7471B	
180-61122-3	BGSB10-(0.0-0.5)-161122-S	Total/NA	Solid	7471B	
180-61122-4	BGSB10-(1-2)-161122-S	Total/NA	Solid	7471B	
MB 180-195631/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-195631/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 196111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-61122-1	BGSB22-(0.0-0.5)-161122-S	Total/NA	Solid	7471B	195631
180-61122-2	BGSB22-(1-2)-161122-S	Total/NA	Solid	7471B	195631
180-61122-3	BGSB10-(0.0-0.5)-161122-S	Total/NA	Solid	7471B	195631
180-61122-4	BGSB10-(1-2)-161122-S	Total/NA	Solid	7471B	195631
MB 180-195631/1-A	Method Blank	Total/NA	Solid	7471B	195631
LCS 180-195631/2-A	Lab Control Sample	Total/NA	Solid	7471B	195631

Analysis Batch: 196391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-61122-1	BGSB22-(0.0-0.5)-161122-S	Total/NA	Solid	6020A	195582
180-61122-2	BGSB22-(1-2)-161122-S	Total/NA	Solid	6020A	195582
180-61122-3	BGSB10-(0.0-0.5)-161122-S	Total/NA	Solid	6020A	195582
180-61122-4	BGSB10-(1-2)-161122-S	Total/NA	Solid	6020A	195582
MB 180-195582/1-A	Method Blank	Total/NA	Solid	6020A	195582
LCS 180-195582/2-A	Lab Control Sample	Total/NA	Solid	6020A	195582
180-61122-1 MS	BGSB22-(0.0-0.5)-161122-S	Total/NA	Solid	6020A	195582
180-61122-1 MSD	BGSB22-(0.0-0.5)-161122-S	Total/NA	Solid	6020A	195582

Metals (Continued)

Analysis Batch: 196495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-61122-2	BGSB22-(1-2)-161122-S	Total/NA	Solid	6020A	195582

General Chemistry

Analysis Batch: 195434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-61122-1	BGSB22-(0.0-0.5)-161122-S	Total/NA	Solid	2540G	
180-61122-2	BGSB22-(1-2)-161122-S	Total/NA	Solid	2540G	
180-61122-3	BGSB10-(0.0-0.5)-161122-S	Total/NA	Solid	2540G	
180-61122-4	BGSB10-(1-2)-161122-S	Total/NA	Solid	2540G	

Client Sample ID: BGSB22-(0.0-0.5)-161122-S — Lab Sample ID: 180-61122-1

Date Collected: 11/22/16 09:35
Date Received: 11/23/16 09:30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			195434	11/25/16 11:02	RSR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: BGSB22-(0.0-0.5)-161122-S — Lab Sample ID: 180-61122-1

Date Collected: 11/22/16 09:35
Date Received: 11/23/16 09:30
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	195373	11/25/16 02:15	KLG	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	195402	11/25/16 18:33	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.1 g	1.0 mL	195769	11/30/16 04:24	KLG	TAL PIT
Total/NA	Analysis	8081B_LL		5			195949	12/01/16 15:17	DFE	TAL PIT
	Instrument ID: CHGC15									
Total/NA	Prep	8151A			50.0 g	10.0 mL	195524	11/27/16 09:29	MAL	TAL PIT
Total/NA	Analysis	8151A		20			195866	11/30/16 15:14	JMO	TAL PIT
	Instrument ID: CGC1									
Total/NA	Prep	3050B			1.03 g	100 mL	195582	11/28/16 07:42	RJR	TAL PIT
Total/NA	Analysis	6020A		1			196391	12/05/16 18:17	CNF	TAL PIT
	Instrument ID: X									
Total/NA	Prep	7471B			0.60 g	100 mL	195631	11/28/16 12:49	EVR	TAL PIT
Total/NA	Analysis	7471B		1			196111	12/02/16 08:37	ANA	TAL PIT
	Instrument ID: K									

Client Sample ID: BGSB22-(1-2)-161122-S — Lab Sample ID: 180-61122-2

Date Collected: 11/22/16 09:40
Date Received: 11/23/16 09:30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			195434	11/25/16 11:02	RSR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: BGSB22-(1-2)-161122-S — Lab Sample ID: 180-61122-2

Date Collected: 11/22/16 09:40
Date Received: 11/23/16 09:30
Matrix: Solid
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	195373	11/25/16 02:15	KLG	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	195402	11/25/16 19:53	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.2 g	1.0 mL	195769	11/30/16 04:24	KLG	TAL PIT
Total/NA	Analysis	8081B_LL		5			195949	12/01/16 15:32	DFE	TAL PIT
	Instrument ID: CHGC15									

Client Sample ID: BGSB22-(1-2)-161122-S — Lab Sample ID: 180-61122-2

Date Collected: 11/22/16 09:40
Date Received: 11/23/16 09:30
Matrix: Solid
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			50.1 g	10.0 mL	195524	11/27/16 09:29	MAL	TAL PIT
Total/NA	Analysis	8151A		20			195866	11/30/16 15:38	JMO	TAL PIT
	Instrument ID: CGC1									
Total/NA	Prep	3050B			1.17 g	100 mL	195582	11/28/16 07:42	RJR	TAL PIT
Total/NA	Analysis	6020A		1			196391	12/05/16 18:42	CNF	TAL PIT
	Instrument ID: X									
Total/NA	Prep	3050B			1.17 g	100 mL	195582	11/28/16 07:42	RJR	TAL PIT
Total/NA	Analysis	6020A		10			196495	12/06/16 13:18	WTR	TAL PIT
	Instrument ID: X									
Total/NA	Prep	7471B			0.61 g	100 mL	195631	11/28/16 12:49	EVR	TAL PIT
Total/NA	Analysis	7471B		1			196111	12/02/16 08:39	ANA	TAL PIT
	Instrument ID: K									

Client Sample ID: BGSB10-(0.0-0.5)-161122-S — Lab Sample ID: 180-61122-3

Date Collected: 11/22/16 15:30
Date Received: 11/23/16 09:30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			195434	11/25/16 11:02	RSR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: BGSB10-(0.0-0.5)-161122-S — Lab Sample ID: 180-61122-3

Date Collected: 11/22/16 15:30
Date Received: 11/23/16 09:30
Matrix: Solid
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	195373	11/25/16 02:15	KLG	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	195402	11/25/16 20:19	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.0 g	1.0 mL	195769	11/30/16 04:24	KLG	TAL PIT
Total/NA	Analysis	8081B_LL		5			195949	12/01/16 15:48	DFE	TAL PIT
	Instrument ID: CHGC15									
Total/NA	Prep	8151A			50.0 g	10.0 mL	195524	11/27/16 09:30	MAL	TAL PIT
Total/NA	Analysis	8151A		20			195866	11/30/16 16:02	JMO	TAL PIT
	Instrument ID: CGC1									
Total/NA	Prep	3050B			1.26 g	100 mL	195582	11/28/16 07:42	RJR	TAL PIT
Total/NA	Analysis	6020A		1			196391	12/05/16 18:48	CNF	TAL PIT
	Instrument ID: X									
Total/NA	Prep	7471B			0.61 g	100 mL	195631	11/28/16 12:49	EVR	TAL PIT
Total/NA	Analysis	7471B		1			196111	12/02/16 08:59	ANA	TAL PIT
	Instrument ID: K									

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: U.S. Oil Recovery Superfund Site

TestAmerica Job ID: 180-61122-1

Client Sample ID: BGSB10-(1-2)-161122-S

Lab Sample ID: 180-61122-4

Date Collected: 11/22/16 15:35
Date Received: 11/23/16 09:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			195434	11/25/16 11:02	RSR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: BGSB10-(1-2)-161122-S

Lab Sample ID: 180-61122-4

Date Collected: 11/22/16 15:35
Date Received: 11/23/16 09:30

Matrix: Solid
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	195373	11/25/16 02:15	KLG	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	195402	11/25/16 20:46	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.0 g	1.0 mL	195769	11/30/16 04:24	KLG	TAL PIT
Total/NA	Analysis	8081B_LL		5			195949	12/01/16 16:03	DFE	TAL PIT
	Instrument ID: CHGC15									
Total/NA	Prep	8151A			50.0 g	10.0 mL	195524	11/27/16 09:30	MAL	TAL PIT
Total/NA	Analysis	8151A		20			195866	11/30/16 16:25	JMO	TAL PIT
	Instrument ID: CGC1									
Total/NA	Prep	3050B			1.01 g	100 mL	195582	11/28/16 07:42	RJR	TAL PIT
Total/NA	Analysis	6020A		1			196391	12/05/16 19:03	CNF	TAL PIT
	Instrument ID: X									
Total/NA	Prep	7471B			0.71 g	100 mL	195631	11/28/16 12:49	EVR	TAL PIT
Total/NA	Analysis	7471B		1			196111	12/02/16 09:01	ANA	TAL PIT
	Instrument ID: K									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

EVR = Emilie Reichenbach

KLG = Kevin Geehring

MAL = Michael Lonzo

RJR = Ron Rosenbaum

Batch Type: Analysis

ANA = Alexis Anderson

CNF = Caitlin Ferguson

DFE = David Eppinger

JMO = John Oravec

RSR = Roseann Ruyechan

VVP = Vincent Piccolino

WTR = Bill Reinheimer

Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: U.S. Oil Recovery Superfund Site

TestAmerica Job ID: 180-61122-1

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Texas	NELAP	6	T104704528-15-2	03-31-17

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
8151A	8151A	Solid	Dinoseb
8270D LL	3541	Solid	1,4-Dioxane
8270D LL	3541	Solid	1-Methylnaphthalene
8270D LL	3541	Solid	Benzaldehyde

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: U.S. Oil Recovery Superfund Site

TestAmerica Job ID: 180-61122-1

Method	Method Description	Protocol	Laboratory
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8081B_LL	Organochlorine Pesticides (GC)	SW846	TAL PIT
8151A	Herbicides (GC)	SW846	TAL PIT
6020A	Metals (ICP/MS)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT

Protocol References:

SM22 = SM22

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

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: U.S. Oil Recovery Superfund Site

TestAmerica Job ID: 180-61122-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-61122-1	BGSB22-(0.0-0.5)-161122-S	Solid	11/22/16 09:35	11/23/16 09:30
180-61122-2	BGSB22-(1-2)-161122-S	Solid	11/22/16 09:40	11/23/16 09:30
180-61122-3	BGSB10-(0.0-0.5)-161122-S	Solid	11/22/16 15:30	11/23/16 09:30
180-61122-4	BGSB10-(1-2)-161122-S	Solid	11/22/16 15:35	11/23/16 09:30

Quantitation Limit Exceptions Summary

Client: EA Engineering, Science, and Technology
TestAmerica Job ID: 180-61122-1
Project/Site: U.S. Oil Recovery Superfund Site

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Matrix	Analyte	Units	Client RL	Lab PQL
8081B_LL	Solid	Toxaphene	mg/Kg	0.00333	0.003333

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CH733 Analysis Batch Number: 189702

Lab Sample ID: IC 180-189702/3 Client Sample ID:

Date Analyzed: 09/30/16 07:20 Lab File ID: N09300003.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
N-Nitrosodimethylamine	2.07	Poor chromatography	piccolinov	09/30/16 08:23
Pyridine	2.20	Poor chromatography	piccolinov	09/30/16 08:23
Benzo[k]fluoranthene	16.29	Poor chromatography	piccolinov	09/30/16 08:23

Lab Sample ID: IC 180-189702/4 Client Sample ID:

Date Analyzed: 09/30/16 07:47 Lab File ID: N09300004.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
N-Nitrosodimethylamine	2.05	Poor chromatography	piccolinov	09/30/16 08:25
Pyridine	2.14	Poor chromatography	piccolinov	09/30/16 08:25
Di-n-octyl phthalate	15.36	Poor chromatography	piccolinov	09/30/16 08:25
Benzo[k]fluoranthene	16.30	Poor chromatography	piccolinov	09/30/16 08:25
Benzo[a]pyrene	16.92	Poor chromatography	piccolinov	09/30/16 08:25

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CH733 Analysis Batch Number: 189702

Lab Sample ID: IC 180-189702/5 Client Sample ID:

Date Analyzed: 09/30/16 08:14 Lab File ID: N09300005.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.21	Poor chromatography	piccolinov	09/30/16 09:07
Di-n-octyl phthalate	15.37	Poor chromatography	piccolinov	09/30/16 09:07
Benzo[k]fluoranthene	16.31	Poor chromatography	piccolinov	09/30/16 09:07
Indeno[1,2,3-cd]pyrene	19.29	Poor chromatography	piccolinov	09/30/16 09:09
Dibenz(a,h)anthracene	19.32	Poor chromatography	piccolinov	09/30/16 09:09
Benzo[g,h,i]perylene	19.89	Poor chromatography	piccolinov	09/30/16 09:09

Lab Sample ID: ICIS 180-189702/6 Client Sample ID:

Date Analyzed: 09/30/16 08:40 Lab File ID: N09300006.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.21	Poor chromatography	piccolinov	09/30/16 09:08
Di-n-octyl phthalate	15.35	Poor chromatography	piccolinov	09/30/16 09:08

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CH733 Analysis Batch Number: 195402

Lab Sample ID: 180-61122-1 Client Sample ID: BGSB22-(0.0-0.5)-161122-S

Date Analyzed: 11/25/16 18:33 Lab File ID: N11250024.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	16.32	Missed Peak	piccolino v	11/26/16 08:12

Lab Sample ID: 180-61122-4 Client Sample ID: BGSB10-(1-2)-161122-S

Date Analyzed: 11/25/16 20:46 Lab File ID: N11250029.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	16.32	Missed Peak	piccolino v	11/26/16 08:16

PESTICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CHGC15 Analysis Batch Number: 189037

Lab Sample ID: IC 180-189037/2 Client Sample ID:

Date Analyzed: 09/24/16 09:17 Lab File ID: Q0924160000002.D GC Column: MR-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	7.17	Baseline Smoothing	eppinged	09/24/16 09:49
Toxaphene Peak 2	7.66	Baseline Smoothing	eppinged	09/24/16 09:49
Toxaphene Peak 3	7.83	Baseline Smoothing	eppinged	09/24/16 09:49
Dibutylchlorendate ISTD	8.15	Baseline Smoothing	eppinged	09/24/16 09:49
Toxaphene Peak 4	8.51	Baseline Smoothing	eppinged	09/24/16 09:49

Lab Sample ID: IC 180-189037/2 Client Sample ID:

Date Analyzed: 09/24/16 09:17 Lab File ID: Q0924160000002.D GC Column: MR-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	6.92	Baseline Smoothing	eppinged	09/24/16 09:49
Toxaphene Peak 2	7.49	Baseline Smoothing	eppinged	09/24/16 09:49
Dibutylchlorendate ISTD	7.93	Baseline Smoothing	eppinged	09/24/16 09:49
Toxaphene Peak 3	8.90	Baseline Smoothing	eppinged	09/24/16 09:49
Toxaphene Peak 4	8.90	Baseline Smoothing	eppinged	09/24/16 09:49

Lab Sample ID: IC 180-189037/3 Client Sample ID:

Date Analyzed: 09/24/16 09:32 Lab File ID: Q0924160000003.D GC Column: MR-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	7.18	Baseline Smoothing	eppinged	09/24/16 10:14
Toxaphene Peak 2	7.66	Baseline Smoothing	eppinged	09/24/16 10:14
Toxaphene Peak 3	7.83	Baseline Smoothing	eppinged	09/24/16 10:14
Dibutylchlorendate ISTD	8.15	Baseline Smoothing	eppinged	09/24/16 10:14
Toxaphene Peak 4	8.51	Baseline Smoothing	eppinged	09/24/16 10:14

PESTICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CHGC15 Analysis Batch Number: 189037

Lab Sample ID: IC 180-189037/3 Client Sample ID:

Date Analyzed: 09/24/16 09:32 Lab File ID: Q0924160000003.D GC Column: MR-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	6.92	Baseline Smoothing	eppinged	09/24/16 10:14
Toxaphene Peak 2	7.49	Baseline Smoothing	eppinged	09/24/16 10:14
Dibutylchlorendate ISTD	7.93	Baseline Smoothing	eppinged	09/24/16 10:14
Toxaphene Peak 3	8.27	Baseline Smoothing	eppinged	09/24/16 10:14
Toxaphene Peak 4	8.91	Baseline Smoothing	eppinged	09/24/16 10:14

Lab Sample ID: IC 180-189037/4 Client Sample ID:

Date Analyzed: 09/24/16 09:47 Lab File ID: Q0924160000004.D GC Column: MR-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	7.18	Baseline Smoothing	eppinged	09/24/16 10:25
Toxaphene Peak 2	7.66	Baseline Smoothing	eppinged	09/24/16 10:25
Toxaphene Peak 3	7.83	Baseline Smoothing	eppinged	09/24/16 10:25
Dibutylchlorendate ISTD	8.15	Baseline Smoothing	eppinged	09/24/16 10:25
Toxaphene Peak 4	8.51	Baseline Smoothing	eppinged	09/24/16 10:25

Lab Sample ID: IC 180-189037/4 Client Sample ID:

Date Analyzed: 09/24/16 09:47 Lab File ID: Q0924160000004.D GC Column: MR-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	6.92	Baseline Smoothing	eppinged	09/24/16 10:25
Toxaphene Peak 2	7.49	Baseline Smoothing	eppinged	09/24/16 10:25
Dibutylchlorendate ISTD	7.93	Baseline Smoothing	eppinged	09/24/16 10:25
Toxaphene Peak 3	8.28	Baseline Smoothing	eppinged	09/24/16 10:25
Toxaphene Peak 4	8.91	Baseline Smoothing	eppinged	09/24/16 10:25

PESTICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CHGC15 Analysis Batch Number: 189037

Lab Sample ID: IC 180-189037/5 Client Sample ID:

Date Analyzed: 09/24/16 10:03 Lab File ID: Q0924160000005.D GC Column: MR-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	7.18	Baseline Smoothing	eppinged	09/24/16 10:29
Toxaphene Peak 2	7.66	Baseline Smoothing	eppinged	09/24/16 10:29
Toxaphene Peak 3	7.83	Baseline Smoothing	eppinged	09/24/16 10:29
Dibutylchlorendate ISTD	8.15	Baseline Smoothing	eppinged	09/24/16 10:29
Toxaphene Peak 4	8.51	Baseline Smoothing	eppinged	09/24/16 10:29

Lab Sample ID: IC 180-189037/6 Client Sample ID:

Date Analyzed: 09/24/16 10:18 Lab File ID: Q0924160000006.D GC Column: MR-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	7.18	Baseline Smoothing	eppinged	09/24/16 10:51
Toxaphene Peak 2	7.66	Baseline Smoothing	eppinged	09/24/16 10:51
Toxaphene Peak 3	7.83	Baseline Smoothing	eppinged	09/24/16 10:51
Dibutylchlorendate ISTD	8.16	Baseline Smoothing	eppinged	09/24/16 10:51
Toxaphene Peak 4	8.51	Baseline Smoothing	eppinged	09/24/16 10:51

Lab Sample ID: IC 180-189037/6 Client Sample ID:

Date Analyzed: 09/24/16 10:18 Lab File ID: Q0924160000006.D GC Column: MR-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibutylchlorendate ISTD	7.93	Baseline Smoothing	eppinged	09/24/16 10:51

PESTICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CHGC15 Analysis Batch Number: 190365

Lab Sample ID: IC 180-190365/7 Client Sample ID:

Date Analyzed: 10/06/16 13:08 Lab File ID: Q100616A0000007.D GC Column: MR-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
DCB Decachlorobiphenyl (Surr)	9.89	Baseline Smoothing	eppinged	10/06/16 13:45

Lab Sample ID: IC 180-190365/7 Client Sample ID:

Date Analyzed: 10/06/16 13:08 Lab File ID: Q100616A0000007.D GC Column: MR-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
DCB Decachlorobiphenyl (Surr)	9.82	Baseline Smoothing	eppinged	10/06/16 13:45

PESTICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CHGC15 Analysis Batch Number: 195949

Lab Sample ID: CCV 180-195949/2 Client Sample ID:

Date Analyzed: 12/01/16 10:08 Lab File ID: Q1201160000002.D GC Column: MR-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	7.21	Baseline Smoothing	eppinged	12/01/16 10:44
Toxaphene Peak 2	7.70	Baseline Smoothing	eppinged	12/01/16 10:44
Toxaphene Peak 3	7.86	Baseline Smoothing	eppinged	12/01/16 10:44
Toxaphene Peak 4	8.55	Baseline Smoothing	eppinged	12/01/16 10:44

Lab Sample ID: CCV 180-195949/2 Client Sample ID:

Date Analyzed: 12/01/16 10:08 Lab File ID: Q1201160000002.D GC Column: MR-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	6.95	Baseline Smoothing	eppinged	12/01/16 10:44
Toxaphene Peak 2	7.52	Baseline Smoothing	eppinged	12/01/16 10:44
Toxaphene Peak 3	8.31	Baseline Smoothing	eppinged	12/01/16 10:44
Toxaphene Peak 4	8.95	Baseline Smoothing	eppinged	12/01/16 10:44

Lab Sample ID: 180-61122-1 Client Sample ID: BGSB22-(0.0-0.5)-161122-S

Date Analyzed: 12/01/16 15:17 Lab File ID: Q1201160000022.D GC Column: MR-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4,4'-DDT	7.67	Baseline Smoothing	eppinged	12/02/16 07:27

Lab Sample ID: 180-61122-3 Client Sample ID: BGSB10-(0.0-0.5)-161122-S

Date Analyzed: 12/01/16 15:48 Lab File ID: Q1201160000024.D GC Column: MR-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
DCB Decachlorobiphenyl (Surr)	9.95	Split Peak	eppinged	12/02/16 07:29

PESTICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CHGC15 Analysis Batch Number: 195949

Lab Sample ID: 180-61122-4 Client Sample ID: BGSB10-(1-2)-161122-S

Date Analyzed: 12/01/16 16:03 Lab File ID: Q1201160000025.D GC Column: MR-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Aldrin	5.97	Split Peak	eppinged	12/02/16 07:30
Dieldrin	7.00	Baseline Smoothing	eppinged	12/02/16 07:30
DCB Decachlorobiphenyl (Surr)	9.87	Baseline Smoothing	eppinged	12/02/16 07:30

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CGC1 Analysis Batch Number: 189048

Lab Sample ID: IC 180-189048/1 Client Sample ID:

Date Analyzed: 09/24/16 11:16 Lab File ID: 0924160000001.D GC Column: RTX-50 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dalapon	2.25	Split Peak	oravecj	09/26/16 06:01
2,4-DB	11.26	Split Peak	oravecj	09/26/16 06:01

Lab Sample ID: IC 180-189048/1 Client Sample ID:

Date Analyzed: 09/24/16 11:16 Lab File ID: 0924160000001.D GC Column: RTX-1701 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-DB	11.07	Split Peak	oravecj	09/26/16 06:01

Lab Sample ID: IC 180-189048/2 Client Sample ID:

Date Analyzed: 09/24/16 11:40 Lab File ID: 0924160000002.D GC Column: RTX-50 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-DB	11.26	Split Peak	oravecj	09/26/16 06:03

Lab Sample ID: IC 180-189048/2 Client Sample ID:

Date Analyzed: 09/24/16 11:40 Lab File ID: 0924160000002.D GC Column: RTX-1701 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dalapon	2.33	Split Peak	oravecj	09/26/16 06:03

Lab Sample ID: IC 180-189048/3 Client Sample ID:

Date Analyzed: 09/24/16 12:04 Lab File ID: 0924160000003.D GC Column: RTX-1701 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dalapon	2.33	Split Peak	oravecj	09/26/16 06:03

8151A

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CGC1 Analysis Batch Number: 189048

Lab Sample ID: IC 180-189048/5 Client Sample ID:

Date Analyzed: 09/24/16 12:52 Lab File ID: 0924160000005.D GC Column: RTX-1701 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dalapon	2.33	Split Peak	oravecj	09/26/16 06:04

Lab Sample ID: IC 180-189048/6 Client Sample ID:

Date Analyzed: 09/24/16 13:16 Lab File ID: 0924160000006.D GC Column: RTX-1701 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dalapon	2.33	Split Peak	oravecj	09/26/16 06:05
Dicamba	8.18	Split Peak	oravecj	09/26/16 06:05
MCPP	8.34	Split Peak	oravecj	09/26/16 06:05

8151A

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CGC1 Analysis Batch Number: 195866

Lab Sample ID: CCVRT 180-195866/1 Client Sample ID:

Date Analyzed: 11/30/16 14:26 Lab File ID: 1130160000005.D GC Column: RTX-1701 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4,5-T	10.80	Split Peak	oravecj	12/01/16 10:23

Lab Sample ID: LCS 180-195524/2-A Client Sample ID:

Date Analyzed: 11/30/16 18:25 Lab File ID: 1130160000015.D GC Column: RTX-1701 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dalapon	2.46	Split Peak	oravecj	12/01/16 10:27

Lab Sample ID: CCV 180-195866/12 Client Sample ID:

Date Analyzed: 11/30/16 18:49 Lab File ID: 1130160000016.D GC Column: RTX-50 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dalapon	2.37	Split Peak	oravecj	12/01/16 10:28

Lab Sample ID: CCV 180-195866/23 Client Sample ID:

Date Analyzed: 11/30/16 23:10 Lab File ID: 1130160000027.D GC Column: RTX-50 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dalapon	2.37	Split Peak	oravecj	12/01/16 10:33

Lab Sample ID: CCV 180-195866/23 Client Sample ID:

Date Analyzed: 11/30/16 23:10 Lab File ID: 1130160000027.D GC Column: RTX-1701 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dalapon	2.45	Split Peak	oravecj	12/01/16 10:33

8151A

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
GCHERBCALSL1_00020	03/31/17	09/24/16	Hexane, Lot 1932891	40 mL	GCHERBICALSTK_00018	0.125 mL	2,4-Dichlorophenylacetic acid	0.02 ug/mL
							2,4,5-T	0.005 ug/mL
							2,4-D	0.02 ug/mL
							2,4-DB	0.02 ug/mL
							Dalapon	0.02 ug/mL
							Dicamba	0.01 ug/mL
							Dichlorprop	0.02 ug/mL
							Dinoseb	0.02 ug/mL
							MCPA	2 ug/mL
							MCPP	2 ug/mL
							Pentachlorophenol	0.005 ug/mL
							Silvex (2,4,5-TP)	0.005 ug/mL
.GCHERBICALSTK_00018	03/31/17	09/24/16	Hexane, Lot 1932891	10 mL	GCDCAASSTD_00004	0.064 mL	2,4-Dichlorophenylacetic acid	6.4 ug/mL
					GCHERBICALMIX_00015	0.32 mL	2,4,5-T	1.6 ug/mL
							2,4-D	6.4 ug/mL
							2,4-DB	6.4 ug/mL
							Dalapon	6.4 ug/mL
							Dicamba	3.2 ug/mL
							Dichlorprop	6.4 ug/mL
							Dinoseb	6.4 ug/mL
							MCPA	640 ug/mL
							MCPP	640 ug/mL
							Pentachlorophenol	1.6 ug/mL
							Silvex (2,4,5-TP)	1.6 ug/mL
..GCDCAASSTD_00004	03/31/17		RESTEK, Lot A0113703		(Purchased Reagent)		2,4-Dichlorophenylacetic acid	1000 ug/mL
..GCHERBICALMIX_00015	01/31/18		restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
GCHERBCALSL2_00019	03/31/17	09/24/16	Hexane, Lot 1932891	40 mL	GCHERBICALSTK_00018	0.25 mL	2,4-Dichlorophenylacetic acid	0.04 ug/mL
							2,4,5-T	0.01 ug/mL
							2,4-D	0.04 ug/mL
							2,4-DB	0.04 ug/mL
							Dalapon	0.04 ug/mL
							Dicamba	0.02 ug/mL
							Dichlorprop	0.04 ug/mL
							Dinoseb	0.04 ug/mL
							MCPA	4 ug/mL
							MCPP	4 ug/mL
							Pentachlorophenol	0.01 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Silvex (2,4,5-TP)	0.01 ug/mL
.GCHERBICALSTK_00018	03/31/17	09/24/16	Hexane, Lot 1932891	10 mL	GCDCAASSTD_00004	0.064 mL	2,4-Dichlorophenylacetic acid	6.4 ug/mL
					GCHERBICALMIX_00015	0.32 mL	2,4,5-T	1.6 ug/mL
							2,4-D	6.4 ug/mL
							2,4-DB	6.4 ug/mL
							Dalapon	6.4 ug/mL
							Dicamba	3.2 ug/mL
							Dichlorprop	6.4 ug/mL
							Dinoseb	6.4 ug/mL
							MCPA	640 ug/mL
							MCPP	640 ug/mL
							Pentachlorophenol	1.6 ug/mL
							Silvex (2,4,5-TP)	1.6 ug/mL
..GCDCAASSTD_00004	03/31/17	RESTEK, Lot A0113703			(Purchased Reagent)		2,4-Dichlorophenylacetic acid	1000 ug/mL
..GCHERBICALMIX_00015	01/31/18	restek, Lot A0120183			(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
GCHERBCALSL3_00021	03/31/17	09/24/16	Hexane, Lot 1932891	100 mL	GCHERBICALSTK_00018	1.25 mL	2,4-Dichlorophenylacetic acid	0.08 ug/mL
							2,4,5-T	0.02 ug/mL
							2,4-D	0.08 ug/mL
							2,4-DB	0.08 ug/mL
							Dalapon	0.08 ug/mL
							Dicamba	0.04 ug/mL
							Dichlorprop	0.08 ug/mL
							Dinoseb	0.08 ug/mL
							MCPA	8 ug/mL
							MCPP	8 ug/mL
							Pentachlorophenol	0.02 ug/mL
							Silvex (2,4,5-TP)	0.02 ug/mL
.GCHERBICALSTK_00018	03/31/17	09/24/16	Hexane, Lot 1932891	10 mL	GCDCAASSTD_00004	0.064 mL	2,4-Dichlorophenylacetic acid	6.4 ug/mL
					GCHERBICALMIX_00015	0.32 mL	2,4,5-T	1.6 ug/mL
							2,4-D	6.4 ug/mL
							2,4-DB	6.4 ug/mL
							Dalapon	6.4 ug/mL
							Dicamba	3.2 ug/mL
							Dichlorprop	6.4 ug/mL
							Dinoseb	6.4 ug/mL
							MCPA	640 ug/mL
							MCPP	640 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentachlorophenol	1.6 ug/mL
							Silvex (2,4,5-TP)	1.6 ug/mL
..GCDCAASSTD_00004	03/31/17		RESTEK, Lot A0113703		(Purchased Reagent)		2,4-Dichlorophenylacetic acid	1000 ug/mL
..GCHERBICALMIX_00015	01/31/18		restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
GCHERBCALSL4_00019	03/31/17	09/24/16	Hexane, Lot 1932891	40 mL	GCHERBICALSTK_00018	1 mL	2,4-Dichlorophenylacetic acid	0.16 ug/mL
							2,4,5-T	0.04 ug/mL
							2,4-D	0.16 ug/mL
							2,4-DB	0.16 ug/mL
							Dalapon	0.16 ug/mL
							Dicamba	0.08 ug/mL
							Dichlorprop	0.16 ug/mL
							Dinoseb	0.16 ug/mL
							MCPA	16 ug/mL
							MCPP	16 ug/mL
							Pentachlorophenol	0.04 ug/mL
							Silvex (2,4,5-TP)	0.04 ug/mL
.GCHERBICALSTK_00018	03/31/17	09/24/16	Hexane, Lot 1932891	10 mL	GCDCAASSTD_00004	0.064 mL	2,4-Dichlorophenylacetic acid	6.4 ug/mL
					GCHERBICALMIX_00015	0.32 mL	2,4,5-T	1.6 ug/mL
							2,4-D	6.4 ug/mL
							2,4-DB	6.4 ug/mL
							Dalapon	6.4 ug/mL
							Dicamba	3.2 ug/mL
							Dichlorprop	6.4 ug/mL
							Dinoseb	6.4 ug/mL
							MCPA	640 ug/mL
							MCPP	640 ug/mL
							Pentachlorophenol	1.6 ug/mL
							Silvex (2,4,5-TP)	1.6 ug/mL
..GCDCAASSTD_00004	03/31/17		RESTEK, Lot A0113703		(Purchased Reagent)		2,4-Dichlorophenylacetic acid	1000 ug/mL
..GCHERBICALMIX_00015	01/31/18		restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
GCHERBCALSL5_00019	03/31/17	09/24/16	Hexane, Lot 1932891	40 mL	GCHERBICALSTK_00018	2 mL	2,4-Dichlorophenylacetic acid	0.32 ug/mL
							2,4,5-T	0.08 ug/mL
							2,4-D	0.32 ug/mL
							2,4-DB	0.32 ug/mL
							Dalapon	0.32 ug/mL
							Dicamba	0.16 ug/mL
							Dichlorprop	0.32 ug/mL
							Dinoseb	0.32 ug/mL
							MCPA	32 ug/mL
							MCPP	32 ug/mL
							Pentachlorophenol	0.08 ug/mL
							Silvex (2,4,5-TP)	0.08 ug/mL
.GCHERBICALSTK_00018	03/31/17	09/24/16	Hexane, Lot 1932891	10 mL	GCDCAASSTD_00004	0.064 mL	2,4-Dichlorophenylacetic acid	6.4 ug/mL
					GCHERBICALMIX_00015	0.32 mL	2,4,5-T	1.6 ug/mL
							2,4-D	6.4 ug/mL
							2,4-DB	6.4 ug/mL
							Dalapon	6.4 ug/mL
							Dicamba	3.2 ug/mL
							Dichlorprop	6.4 ug/mL
							Dinoseb	6.4 ug/mL
							MCPA	640 ug/mL
							MCPP	640 ug/mL
							Pentachlorophenol	1.6 ug/mL
							Silvex (2,4,5-TP)	1.6 ug/mL
..GCDCAASSTD_00004	03/31/17		RESTEK, Lot A0113703		(Purchased Reagent)		2,4-Dichlorophenylacetic acid	1000 ug/mL
..GCHERBICALMIX_00015	01/31/18		restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
GCHERBCALSL6_00006	03/31/17	09/24/16	Hexane, Lot 1932891	20 mL	GCHERBICALSTK_00018	2 mL	2,4-Dichlorophenylacetic acid	0.64 ug/mL
							2,4,5-T	0.16 ug/mL
							2,4-D	0.64 ug/mL
							2,4-DB	0.64 ug/mL
							Dalapon	0.64 ug/mL
							Dicamba	0.32 ug/mL
							Dichlorprop	0.64 ug/mL
							Dinoseb	0.64 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPA	64 ug/mL
							MCPP	64 ug/mL
							Pentachlorophenol	0.16 ug/mL
							Silvex (2,4,5-TP)	0.16 ug/mL
.GCHERBICALSTK_00018	03/31/17	09/24/16	Hexane, Lot 1932891	10 mL	GCDCAASSTD_00004	0.064 mL	2,4-Dichlorophenylacetic acid	6.4 ug/mL
					GCHERBICALMIX_00015	0.32 mL	2,4,5-T	1.6 ug/mL
							2,4-D	6.4 ug/mL
							2,4-DB	6.4 ug/mL
							Dalapon	6.4 ug/mL
							Dicamba	3.2 ug/mL
							Dichlorprop	6.4 ug/mL
							Dinoseb	6.4 ug/mL
							MCPA	640 ug/mL
							MCPP	640 ug/mL
							Pentachlorophenol	1.6 ug/mL
							Silvex (2,4,5-TP)	1.6 ug/mL
..GCDCAASSTD_00004	03/31/17		RESTEK, Lot A0113703		(Purchased Reagent)		2,4-Dichlorophenylacetic acid	1000 ug/mL
..GCHERBICALMIX_00015	01/31/18		restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
GCHERBCALSL7_00003	03/31/17	09/24/16	Hexane, Lot 1932891	40 mL	GCHERBICALSTK_00018	0.0625 mL	2,4-Dichlorophenylacetic acid	0.01 ug/mL
							2,4,5-T	0.0025 ug/mL
							2,4-D	0.01 ug/mL
							2,4-DB	0.01 ug/mL
							Dalapon	0.01 ug/mL
							Dicamba	0.005 ug/mL
							Dichlorprop	0.01 ug/mL
							Dinoseb	0.01 ug/mL
							MCPA	1 ug/mL
							MCPP	1 ug/mL
							Pentachlorophenol	0.0025 ug/mL
							Silvex (2,4,5-TP)	0.0025 ug/mL
.GCHERBICALSTK_00018	03/31/17	09/24/16	Hexane, Lot 1932891	10 mL	GCDCAASSTD_00004	0.064 mL	2,4-Dichlorophenylacetic acid	6.4 ug/mL
					GCHERBICALMIX_00015	0.32 mL	2,4,5-T	1.6 ug/mL
							2,4-D	6.4 ug/mL
							2,4-DB	6.4 ug/mL
							Dalapon	6.4 ug/mL
							Dicamba	3.2 ug/mL
							Dichlorprop	6.4 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	6.4 ug/mL
							MCPA	640 ug/mL
							MCPP	640 ug/mL
							Pentachlorophenol	1.6 ug/mL
							Silvex (2,4,5-TP)	1.6 ug/mL
..GCDCAASSTD_00004	03/31/17		RESTEK, Lot A0113703		(Purchased Reagent)		2,4-Dichlorophenylacetic acid	1000 ug/mL
..GCHERBICALMIX_00015	01/31/18		restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
GCPest L1_00017	01/30/17	09/07/16	Hexane, Lot 1273286	40 mL	GCPestCAL_00011	0.004 mL	DCB Decachlorobiphenyl (Surr)	0.001 ug/mL
							Tetrachloro-m-xylene	0.001 ug/mL
							4,4'-DDD	0.001 ug/mL
							4,4'-DDE	0.001 ug/mL
							4,4'-DDT	0.001 ug/mL
							Aldrin	0.001 ug/mL
							alpha-BHC	0.001 ug/mL
							beta-BHC	0.001 ug/mL
							cis-Chlordane	0.001 ug/mL
							delta-BHC	0.001 ug/mL
							Dieldrin	0.001 ug/mL
							Endosulfan I	0.001 ug/mL
							Endosulfan II	0.001 ug/mL
							Endosulfan sulfate	0.001 ug/mL
							Endrin	0.001 ug/mL
							Endrin aldehyde	0.001 ug/mL
							Endrin ketone	0.001 ug/mL
							gamma-BHC (Lindane)	0.001 ug/mL
							Heptachlor	0.001 ug/mL
							Heptachlor epoxide	0.001 ug/mL
							Methoxychlor	0.001 ug/mL
							trans-Chlordane	0.001 ug/mL
.GCPestCAL_00011	01/30/17	03/02/16	Hexane, Lot 1273286	20 mL	GCPEST(SURR)S_00006	1 mL	DCB Decachlorobiphenyl (Surr)	10 ug/mL
							Tetrachloro-m-xylene	10 ug/mL
					GCPESTAB3STD_00001	0.1 mL	4,4'-DDD	10 ug/mL
							4,4'-DDE	10 ug/mL
							4,4'-DDT	10 ug/mL
							Aldrin	10 ug/mL
							alpha-BHC	10 ug/mL
							beta-BHC	10 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-Chlordane	10 ug/mL
							delta-BHC	10 ug/mL
							Dieldrin	10 ug/mL
							Endosulfan I	10 ug/mL
							Endosulfan II	10 ug/mL
							Endosulfan sulfate	10 ug/mL
							Endrin	10 ug/mL
							Endrin aldehyde	10 ug/mL
							Endrin ketone	10 ug/mL
							gamma-BHC (Lindane)	10 ug/mL
							Heptachlor	10 ug/mL
							Heptachlor epoxide	10 ug/mL
							Methoxychlor	10 ug/mL
							trans-Chlordane	10 ug/mL
..GCPEST(SURR)S_00006	01/30/17		RESTEK, Lot A069056		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
..GCPESTAB3STD_00001	02/28/17		RESTEK, Lot A093456		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							beta-BHC	2000 ug/mL
							cis-Chlordane	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
							trans-Chlordane	2000 ug/mL
GCPESTISSPK2_00004	01/15/17	07/15/16	Hexane, Lot 1273286	40 mL	GCDBCINTSTD_00001	0.2 mL	Dibutylchlorendate ISTD	1 ug/mL
					GCpest/pcbINT_00001	0.04 mL	1-Bromo-2-nitrobenzene	1 ug/mL
.GCDBCINTSTD_00001	01/31/17		RESTEK, Lot A099571		(Purchased Reagent)		Dibutylchlorendate ISTD	200 ug/mL
.GCpest/pcbINT_00001	02/28/17		restek, Lot A099353		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
GCPestL2_00016	01/30/17	09/12/16	Hexane, Lot 1273286	40 mL	GCPestCAL_00011	0.02 mL	DCB Decachlorobiphenyl (Surr)	0.005 ug/mL
							Tetrachloro-m-xylene	0.005 ug/mL
							4,4'-DDD	0.005 ug/mL
							4,4'-DDE	0.005 ug/mL
							4,4'-DDT	0.005 ug/mL
							Aldrin	0.005 ug/mL
							alpha-BHC	0.005 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							beta-BHC	0.005 ug/mL
							cis-Chlordane	0.005 ug/mL
							delta-BHC	0.005 ug/mL
							Dieldrin	0.005 ug/mL
							Endosulfan I	0.005 ug/mL
							Endosulfan II	0.005 ug/mL
							Endosulfan sulfate	0.005 ug/mL
							Endrin	0.005 ug/mL
							Endrin aldehyde	0.005 ug/mL
							Endrin ketone	0.005 ug/mL
							gamma-BHC (Lindane)	0.005 ug/mL
							Heptachlor	0.005 ug/mL
							Heptachlor epoxide	0.005 ug/mL
							Methoxychlor	0.005 ug/mL
							trans-Chlordane	0.005 ug/mL
.GCPestCAL_00011	01/30/17	03/02/16	Hexane, Lot 1273286	20 mL	GCPEST(SURR)S_00006	1 mL	DCB Decachlorobiphenyl (Surr)	10 ug/mL
							Tetrachloro-m-xylene	10 ug/mL
					GCPESTAB3STD_00001	0.1 mL	4,4'-DDD	10 ug/mL
							4,4'-DDE	10 ug/mL
							4,4'-DDT	10 ug/mL
							Aldrin	10 ug/mL
							alpha-BHC	10 ug/mL
							beta-BHC	10 ug/mL
							cis-Chlordane	10 ug/mL
							delta-BHC	10 ug/mL
							Dieldrin	10 ug/mL
							Endosulfan I	10 ug/mL
							Endosulfan II	10 ug/mL
							Endosulfan sulfate	10 ug/mL
							Endrin	10 ug/mL
							Endrin aldehyde	10 ug/mL
							Endrin ketone	10 ug/mL
							gamma-BHC (Lindane)	10 ug/mL
							Heptachlor	10 ug/mL
							Heptachlor epoxide	10 ug/mL
							Methoxychlor	10 ug/mL
							trans-Chlordane	10 ug/mL
..GCPEST(SURR)S_00006	01/30/17	RESTEK, Lot A069056			(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
..GCPESTAB3STD_00001	02/28/17	RESTEK, Lot A093456			(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							beta-BHC	2000 ug/mL
							cis-Chlordane	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
							trans-Chlordane	2000 ug/mL
GCPestL3_00017	01/30/17	09/05/16	Hexane, Lot 1273286	100 mL	GCPestCAL_00011	0.25 mL	DCB Decachlorobiphenyl (Surr)	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
							4,4'-DDD	0.025 ug/mL
							4,4'-DDE	0.025 ug/mL
							4,4'-DDT	0.025 ug/mL
							Aldrin	0.025 ug/mL
							alpha-BHC	0.025 ug/mL
							beta-BHC	0.025 ug/mL
							cis-Chlordane	0.025 ug/mL
							delta-BHC	0.025 ug/mL
							Dieldrin	0.025 ug/mL
							Endosulfan I	0.025 ug/mL
							Endosulfan II	0.025 ug/mL
							Endosulfan sulfate	0.025 ug/mL
							Endrin	0.025 ug/mL
							Endrin aldehyde	0.025 ug/mL
							Endrin ketone	0.025 ug/mL
							gamma-BHC (Lindane)	0.025 ug/mL
							Heptachlor	0.025 ug/mL
							Heptachlor epoxide	0.025 ug/mL
							Methoxychlor	0.025 ug/mL
							trans-Chlordane	0.025 ug/mL
.GCPestCAL_00011	01/30/17	03/02/16	Hexane, Lot 1273286	20 mL	GCPEST(SURR)S_00006	1 mL	DCB Decachlorobiphenyl (Surr)	10 ug/mL
							Tetrachloro-m-xylene	10 ug/mL
					GCPESTAB3STD_00001	0.1 mL	4,4'-DDD	10 ug/mL
							4,4'-DDE	10 ug/mL
							4,4'-DDT	10 ug/mL
							Aldrin	10 ug/mL
							alpha-BHC	10 ug/mL
							beta-BHC	10 ug/mL
							cis-Chlordane	10 ug/mL
							delta-BHC	10 ug/mL
							Dieldrin	10 ug/mL
							Endosulfan I	10 ug/mL
							Endosulfan II	10 ug/mL
							Endosulfan sulfate	10 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endrin	10 ug/mL
							Endrin aldehyde	10 ug/mL
							Endrin ketone	10 ug/mL
							gamma-BHC (Lindane)	10 ug/mL
							Heptachlor	10 ug/mL
							Heptachlor epoxide	10 ug/mL
							Methoxychlor	10 ug/mL
							trans-Chlordane	10 ug/mL
..GCPEST(SURR)S_00006	01/30/17		RESTEK, Lot A069056		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
..GCPESTAB3STD_00001	02/28/17		RESTEK, Lot A093456		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							beta-BHC	2000 ug/mL
							cis-Chlordane	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
							trans-Chlordane	2000 ug/mL
GCPestL4_00016	01/30/17	09/12/16	Hexane, Lot 1273286	40 mL	GCPestCAL_00011	0.2 mL	DCB Decachlorobiphenyl (Surr)	0.05 ug/mL
							Tetrachloro-m-xylene	0.05 ug/mL
							4,4'-DDD	0.05 ug/mL
							4,4'-DDE	0.05 ug/mL
							4,4'-DDT	0.05 ug/mL
							Aldrin	0.05 ug/mL
							alpha-BHC	0.05 ug/mL
							beta-BHC	0.05 ug/mL
							cis-Chlordane	0.05 ug/mL
							delta-BHC	0.05 ug/mL
							Dieldrin	0.05 ug/mL
							Endosulfan I	0.05 ug/mL
							Endosulfan II	0.05 ug/mL
							Endosulfan sulfate	0.05 ug/mL
							Endrin	0.05 ug/mL
							Endrin aldehyde	0.05 ug/mL
							Endrin ketone	0.05 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							gamma-BHC (Lindane)	0.05 ug/mL
							Heptachlor	0.05 ug/mL
							Heptachlor epoxide	0.05 ug/mL
							Methoxychlor	0.05 ug/mL
							trans-Chlordane	0.05 ug/mL
.GCPestCAL_00011	01/30/17	03/02/16	Hexane, Lot 1273286	20 mL	GCPEST(SURR)S_00006	1 mL	DCB Decachlorobiphenyl (Surr)	10 ug/mL
							Tetrachloro-m-xylene	10 ug/mL
					GCPESTAB3STD_00001	0.1 mL	4,4'-DDD	10 ug/mL
							4,4'-DDE	10 ug/mL
							4,4'-DDT	10 ug/mL
							Aldrin	10 ug/mL
							alpha-BHC	10 ug/mL
							beta-BHC	10 ug/mL
							cis-Chlordane	10 ug/mL
							delta-BHC	10 ug/mL
							Dieldrin	10 ug/mL
							Endosulfan I	10 ug/mL
							Endosulfan II	10 ug/mL
							Endosulfan sulfate	10 ug/mL
							Endrin	10 ug/mL
							Endrin aldehyde	10 ug/mL
							Endrin ketone	10 ug/mL
							gamma-BHC (Lindane)	10 ug/mL
							Heptachlor	10 ug/mL
							Heptachlor epoxide	10 ug/mL
							Methoxychlor	10 ug/mL
							trans-Chlordane	10 ug/mL
..GCPEST(SURR)S_00006	01/30/17	RESTEK, Lot A069056			(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
..GCPESTAB3STD_00001	02/28/17	RESTEK, Lot A093456			(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							beta-BHC	2000 ug/mL
							cis-Chlordane	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-Chlordane	2000 ug/mL
GCPestL5_00016	01/30/17	09/12/16	Hexane, Lot 1273286	40 mL	GCPestCAL_00011	0.4 mL	DCB Decachlorobiphenyl (Surr)	0.1 ug/mL
							Tetrachloro-m-xylene	0.1 ug/mL
							4,4'-DDD	0.1 ug/mL
							4,4'-DDE	0.1 ug/mL
							4,4'-DDT	0.1 ug/mL
							Aldrin	0.1 ug/mL
							alpha-BHC	0.1 ug/mL
							beta-BHC	0.1 ug/mL
							cis-Chlordane	0.1 ug/mL
							delta-BHC	0.1 ug/mL
							Dieldrin	0.1 ug/mL
							Endosulfan I	0.1 ug/mL
							Endosulfan II	0.1 ug/mL
							Endosulfan sulfate	0.1 ug/mL
							Endrin	0.1 ug/mL
							Endrin aldehyde	0.1 ug/mL
							Endrin ketone	0.1 ug/mL
							gamma-BHC (Lindane)	0.1 ug/mL
							Heptachlor	0.1 ug/mL
							Heptachlor epoxide	0.1 ug/mL
							Methoxychlor	0.1 ug/mL
							trans-Chlordane	0.1 ug/mL
.GCPestCAL_00011	01/30/17	03/02/16	Hexane, Lot 1273286	20 mL	GCPEST(SURR)S_00006	1 mL	DCB Decachlorobiphenyl (Surr)	10 ug/mL
							Tetrachloro-m-xylene	10 ug/mL
					GCPESTAB3STD_00001	0.1 mL	4,4'-DDD	10 ug/mL
							4,4'-DDE	10 ug/mL
							4,4'-DDT	10 ug/mL
							Aldrin	10 ug/mL
							alpha-BHC	10 ug/mL
							beta-BHC	10 ug/mL
							cis-Chlordane	10 ug/mL
							delta-BHC	10 ug/mL
							Dieldrin	10 ug/mL
							Endosulfan I	10 ug/mL
							Endosulfan II	10 ug/mL
							Endosulfan sulfate	10 ug/mL
							Endrin	10 ug/mL
							Endrin aldehyde	10 ug/mL
							Endrin ketone	10 ug/mL
							gamma-BHC (Lindane)	10 ug/mL
							Heptachlor	10 ug/mL
							Heptachlor epoxide	10 ug/mL
							Methoxychlor	10 ug/mL
							trans-Chlordane	10 ug/mL
..GCPEST(SURR)S_00006	01/30/17	RESTEK, Lot A069056			(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..GCPESTAB3STD_00001	02/28/17		RESTEK, Lot A093456		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							beta-BHC	2000 ug/mL
							cis-Chlordane	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
							trans-Chlordane	2000 ug/mL
GCPestL6_00016	01/30/17	09/12/16	Hexane, Lot 1273286	40 mL	GCPestCAL_00011	0.8 mL	DCB Decachlorobiphenyl (Surr)	0.2 ug/mL
							Tetrachloro-m-xylene	0.2 ug/mL
							4,4'-DDD	0.2 ug/mL
							4,4'-DDE	0.2 ug/mL
							4,4'-DDT	0.2 ug/mL
							Aldrin	0.2 ug/mL
							alpha-BHC	0.2 ug/mL
							beta-BHC	0.2 ug/mL
							cis-Chlordane	0.2 ug/mL
							delta-BHC	0.2 ug/mL
							Dieldrin	0.2 ug/mL
							Endosulfan I	0.2 ug/mL
							Endosulfan II	0.2 ug/mL
							Endosulfan sulfate	0.2 ug/mL
							Endrin	0.2 ug/mL
							Endrin aldehyde	0.2 ug/mL
							Endrin ketone	0.2 ug/mL
							gamma-BHC (Lindane)	0.2 ug/mL
							Heptachlor	0.2 ug/mL
							Heptachlor epoxide	0.2 ug/mL
							Methoxychlor	0.2 ug/mL
							trans-Chlordane	0.2 ug/mL
.GCPestCAL_00011	01/30/17	03/02/16	Hexane, Lot 1273286	20 mL	GCPEST(SURR)S_00006	1 mL	DCB Decachlorobiphenyl (Surr)	10 ug/mL
							Tetrachloro-m-xylene	10 ug/mL
					GCPESTAB3STD_00001	0.1 mL	4,4'-DDD	10 ug/mL
							4,4'-DDE	10 ug/mL
							4,4'-DDT	10 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aldrin	10 ug/mL
							alpha-BHC	10 ug/mL
							beta-BHC	10 ug/mL
							cis-Chlordane	10 ug/mL
							delta-BHC	10 ug/mL
							Dieldrin	10 ug/mL
							Endosulfan I	10 ug/mL
							Endosulfan II	10 ug/mL
							Endosulfan sulfate	10 ug/mL
							Endrin	10 ug/mL
							Endrin aldehyde	10 ug/mL
							Endrin ketone	10 ug/mL
							gamma-BHC (Lindane)	10 ug/mL
							Heptachlor	10 ug/mL
							Heptachlor epoxide	10 ug/mL
							Methoxychlor	10 ug/mL
							trans-Chlordane	10 ug/mL
..GCPEST(SURR)S_00006	01/30/17		RESTEK, Lot A069056		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
..GCPESTAB3STD_00001	02/28/17		RESTEK, Lot A093456		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							beta-BHC	2000 ug/mL
							cis-Chlordane	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
							trans-Chlordane	2000 ug/mL
GCPESTPEMSTD_00022	01/27/17	06/28/16	Hexane, Lot 1273286	200 mL	GCCLPSURRSTK_00007	1 mL	DCB Decachlorobiphenyl (Surr)	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
					GCPEST(PEM)S_00006	0.05 mL	4,4'-DDT	0.05 ug/mL
							Endrin	0.025 ug/mL
.GCCLPSURRSTK_00007	01/27/17	01/27/16	Hexane, Lot 1273816	20 mL	GCPEST(SURR)S_00007	0.5 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
							Tetrachloro-m-xylene	5 ug/mL
..GCPEST(SURR)S_00007	11/30/20		RESTEK, Lot A0105135		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.GCPEST(PEM)S_00006	04/30/19		RESTEK, Lot A0113122		(Purchased Reagent)		4,4'-DDT	200 ug/mL
							Endrin	100 ug/mL
GCTOXLEVEL1_00005	11/30/16	09/12/16	Hexane, Lot 127386	40 mL	GCTOXINTERSTD_00003	0.016 mL	Toxaphene Peak 1	0.02 ug/mL
							Toxaphene Peak 2	0.02 ug/mL
							Toxaphene Peak 3	0.02 ug/mL
							Toxaphene Peak 4	0.02 ug/mL
.GCTOXINTERSTD_00003	11/30/16	09/12/16	Hexane, Lot 127386	40 mL	GCTOXSTDSTD_00001	0.4 mL	Toxaphene Peak 1	50 ug/mL
							Toxaphene Peak 2	50 ug/mL
							Toxaphene Peak 3	50 ug/mL
							Toxaphene Peak 4	50 ug/mL
..GCTOXSTDSTD_00001	11/30/16		RESTEK, Lot A090203		(Purchased Reagent)		Toxaphene Peak 1	5000 ug/mL
							Toxaphene Peak 2	5000 ug/mL
							Toxaphene Peak 3	5000 ug/mL
							Toxaphene Peak 4	5000 ug/mL
GCTOXLEVEL2_00003	11/30/16	09/12/16	Hexane, Lot 1273286	40 mL	GCTOXINTERSTD_00003	0.16 mL	Toxaphene Peak 1	0.2 ug/mL
							Toxaphene Peak 2	0.2 ug/mL
							Toxaphene Peak 3	0.2 ug/mL
							Toxaphene Peak 4	0.2 ug/mL
.GCTOXINTERSTD_00003	11/30/16	09/12/16	Hexane, Lot 127386	40 mL	GCTOXSTDSTD_00001	0.4 mL	Toxaphene Peak 1	50 ug/mL
							Toxaphene Peak 2	50 ug/mL
							Toxaphene Peak 3	50 ug/mL
							Toxaphene Peak 4	50 ug/mL
..GCTOXSTDSTD_00001	11/30/16		RESTEK, Lot A090203		(Purchased Reagent)		Toxaphene Peak 1	5000 ug/mL
							Toxaphene Peak 2	5000 ug/mL
							Toxaphene Peak 3	5000 ug/mL
							Toxaphene Peak 4	5000 ug/mL
GCTOXLEVEL3_00007	11/30/16	09/12/16	Hexane, Lot 127386	40 mL	GCTOXINTERSTD_00003	0.8 mL	Toxaphene Peak 1	1 ug/mL
							Toxaphene Peak 2	1 ug/mL
							Toxaphene Peak 3	1 ug/mL
							Toxaphene Peak 4	1 ug/mL
.GCTOXINTERSTD_00003	11/30/16	09/12/16	Hexane, Lot 127386	40 mL	GCTOXSTDSTD_00001	0.4 mL	Toxaphene Peak 1	50 ug/mL
							Toxaphene Peak 2	50 ug/mL
							Toxaphene Peak 3	50 ug/mL
							Toxaphene Peak 4	50 ug/mL
..GCTOXSTDSTD_00001	11/30/16		RESTEK, Lot A090203		(Purchased Reagent)		Toxaphene Peak 1	5000 ug/mL
							Toxaphene Peak 2	5000 ug/mL
							Toxaphene Peak 3	5000 ug/mL
							Toxaphene Peak 4	5000 ug/mL
GCTOXLEVEL3_00008	12/14/16	09/12/16	Hexane, Lot 127386	40 mL	GCTOXINTERSTD_00003	0.8 mL	Toxaphene	1 ug/mL
.GCTOXINTERSTD_00003	11/30/16	09/12/16	Hexane, Lot 127386	40 mL	GCTOXSTDSTD_00001	0.4 mL	Toxaphene	50 ug/mL
..GCTOXSTDSTD_00001	11/30/16		RESTEK, Lot A090203		(Purchased Reagent)		Toxaphene	5000 ug/mL
GCTOXLEVEL4_00003	11/30/16	09/12/16	Hexane, Lot 1273286	20 mL	GCTOXINTERSTD_00003	1 mL	Toxaphene Peak 1	2.5 ug/mL
							Toxaphene Peak 2	2.5 ug/mL
							Toxaphene Peak 3	2.5 ug/mL
							Toxaphene Peak 4	2.5 ug/mL
.GCTOXINTERSTD_00003	11/30/16	09/12/16	Hexane, Lot 127386	40 mL	GCTOXSTDSTD_00001	0.4 mL	Toxaphene Peak 1	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toxaphene Peak 2	50 ug/mL
							Toxaphene Peak 3	50 ug/mL
							Toxaphene Peak 4	50 ug/mL
..GCTOXSTDSTD_00001	11/30/16	RESTEK, Lot A090203			(Purchased Reagent)		Toxaphene Peak 1	5000 ug/mL
							Toxaphene Peak 2	5000 ug/mL
							Toxaphene Peak 3	5000 ug/mL
							Toxaphene Peak 4	5000 ug/mL
GCTOXLEVEL5_00005	11/30/16	09/12/16	Hexane, Lot 127386	20 mL	GCTOXINTERSTD_00003	2 mL	Toxaphene Peak 1	5 ug/mL
							Toxaphene Peak 2	5 ug/mL
							Toxaphene Peak 3	5 ug/mL
							Toxaphene Peak 4	5 ug/mL
.GCTOXINTERSTD_00003	11/30/16	09/12/16	Hexane, Lot 127386	40 mL	GCTOXSTDSTD_00001	0.4 mL	Toxaphene Peak 1	50 ug/mL
							Toxaphene Peak 2	50 ug/mL
							Toxaphene Peak 3	50 ug/mL
							Toxaphene Peak 4	50 ug/mL
..GCTOXSTDSTD_00001	11/30/16	RESTEK, Lot A090203			(Purchased Reagent)		Toxaphene Peak 1	5000 ug/mL
							Toxaphene Peak 2	5000 ug/mL
							Toxaphene Peak 3	5000 ug/mL
							Toxaphene Peak 4	5000 ug/mL
Herb(RTS)spk_00006	07/31/17	restek, Lot A0116679			(Purchased Reagent)		2,4,5-T	5 ug/mL
							2,4-D	20 ug/mL
							2,4-DB	20 ug/mL
							Dalapon	20 ug/mL
							Dicamba	10 ug/mL
							Dichlorprop	20 ug/mL
							Dinoseb	20 ug/mL
							MCPA	2000 ug/mL
							MCPP	2000 ug/mL
							Pentachlorophenol	5 ug/mL
							Silvex (2,4,5-TP)	5 ug/mL
MCCV1X_00093	02/07/17	11/07/16	2% Nitric Acid, Lot 1241747	500 mL	MCALSPECAREV_00007	10 mL	Aluminum	0.5 ppm
							Arsenic	0.1 ppm
							Barium	0.1 ppm
							Beryllium	0.1 ppm
							Cadmium	0.1 ppm
							Chromium	0.1 ppm
							Cobalt	0.1 ppm
							Copper	0.1 ppm
							Lead	0.1 ppm
							Manganese	0.5 ppm
							Nickel	0.1 ppm
							Selenium	0.1 ppm
							Silver	0.1 ppm
							Thallium	0.1 ppm
							Vanadium	0.1 ppm
							Zinc	0.1 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MCALSPECB_00009	10 mL	Antimony	0.1 ppm
							Boron	0.1 ppm
.MCALSPECAREV_00007	03/01/17	Inorganic Ventures, Lot J2-MEB575123			(Purchased Reagent)		Aluminum	25 ppm
							Arsenic	5 ppm
							Barium	5 ppm
							Beryllium	5 ppm
							Cadmium	5 ppm
							Chromium	5 ppm
							Cobalt	5 ppm
							Copper	5 ppm
							Lead	5 ppm
							Manganese	25 ppm
							Nickel	5 ppm
							Selenium	5 ppm
							Silver	5 ppm
							Thallium	5 ppm
							Vanadium	5 ppm
							Zinc	5 ppm
.MCALSPECB_00009	03/01/17	Inorganic Ventures, Lot J2-MEB575124			(Purchased Reagent)		Antimony	5 ppm
							Boron	5 ppm
MCRIX_00087	02/07/17	11/07/16	HNO3, Lot 1191081	250 mL	MMSCRI-1B_00006	1 mL	Aluminum	0.03 ppm
							Arsenic	0.001 ppm
							Barium	0.01 ppm
							Beryllium	0.001 ppm
							Cadmium	0.001 ppm
							Chromium	0.002 ppm
							Cobalt	0.0005 ppm
							Copper	0.002 ppm
							Lead	0.001 ppm
							Manganese	0.005 ppm
							Nickel	0.001 ppm
							Selenium	0.005 ppm
							Silver	0.001 ppm
							Thallium	0.001 ppm
							Vanadium	0.001 ppm
							Zinc	0.005 ppm
					MMSCRI-2_00008	1 mL	Antimony	0.002 ppm
							Boron	0.02 ppm
.MMSCRI-1B_00006	04/04/19	Inorganic Ventures, Lot J2-MEB628079			(Purchased Reagent)		Aluminum	7.5 ppm
							Arsenic	0.25 ppm
							Barium	2.5 ppm
							Beryllium	0.25 ppm
							Cadmium	0.25 ppm
							Chromium	0.5 ppm
							Cobalt	0.125 ppm
							Copper	0.5 ppm
							Lead	0.25 ppm

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Manganese	1.25 ppm
							Nickel	0.25 ppm
							Selenium	1.25 ppm
							Silver	0.25 ppm
							Thallium	0.25 ppm
							Vanadium	0.25 ppm
							Zinc	1.25 ppm
.MMSCRI-2_00008	04/04/19	Inorganic Ventures, Lot J2-MEB628080			(Purchased Reagent)		Antimony	0.5 ppm
							Boron	5 ppm
MHgworkingCal_01435	12/02/16	12/01/16	2% Nitric Acid, Lot 0000148204	100 mL	MHgIntcal_00504	1 mL	Mercury	100 ppb
.MHgIntcal_00504	12/02/16	12/01/16	2% Nitric Acid, Lot 0000148204	100 mL	MCGHG1-1_00011	1 mL	Mercury	10 ppm
..MCGHG1-1_00011	12/29/18	Inorganic Ventures, Lot J2-HG02140			(Purchased Reagent)		Mercury	1000 ppm
MHgWorkingicv_01402	12/02/16	12/01/16	2% Nitric Acid, Lot 0000148204	100 mL	MHgIntICV_00487	1 mL	Mercury	100 ppb
.MHgIntICV_00487	12/02/16	12/01/16	2% Nitric Acid, Lot 0000148204	100 mL	MHGICV-1_00007	1 mL	Mercury	10 ppm
..MHGICV-1_00007	06/30/21	ULTRA SCIENTIFIC, Lot T00602			(Purchased Reagent)		Mercury	1000 ppm
MICSABX_00089	02/07/17	11/07/16	2% Nitric Acid, Lot J38N82	100 mL	M6020ICS-0A_00006	10 mL	Aluminum	100 ppm
							Ca	100 ppm
							Fe	100 ppm
							K	100 ppm
							Mg	100 ppm
							Mo	2 ppm
							Na	100 ppm
							Ti	2 ppm
					M6020ICS-0B_00007	1 mL	Arsenic	0.02 ppm
							Cadmium	0.02 ppm
							Chromium	0.02 ppm
							Cobalt	0.02 ppm
							Copper	0.02 ppm
							Manganese	0.022 ppm
							Nickel	0.02 ppm
							Silver	0.02 ppm
							Zinc	0.025 ppm
					MMSICSAB-1_00009	0.2 mL	Barium	0.02 ppm
							Beryllium	0.02 ppm
							Lead	0.02 ppm
							Sr	0.025 ppm
							Thallium	0.02 ppm
							Vanadium	0.02 ppm
					MMSICSAB-2_00008	0.2 mL	Antimony	0.02 ppm
							Boron	0.05 ppm
							Selenium	0.05 ppm
							Si	0.5 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Sn	0.1 ppm
.M6020ICS-0A_00006	01/26/18	Inorganic Ventures, Lot J2-MEB533111			(Purchased Reagent)		Aluminum	1000 ppm
							Ca	1000 ppm
							Fe	1000 ppm
							K	1000 ppm
							Mg	1000 ppm
							Mo	20 ppm
							Na	1000 ppm
							Ti	20 ppm
.M6020ICS-0B_00007	01/26/18	Inorganic Ventures, Lot J2-MEB569107			(Purchased Reagent)		Arsenic	2 ppm
							Cadmium	2 ppm
							Chromium	2 ppm
							Cobalt	2 ppm
							Copper	2 ppm
							Manganese	2.2 ppm
							Nickel	2 ppm
							Silver	2 ppm
							Zinc	2.5 ppm
.MMSICSAB-1_00009	05/01/17	Inorganic Ventures, Lot J2-MEB575125			(Purchased Reagent)		Barium	10 ppm
							Beryllium	10 ppm
							Lead	10 ppm
							Sr	12.5 ppm
							Thallium	10 ppm
							Vanadium	10 ppm
.MMSICSAB-2_00008	05/01/17	Inorganic Ventures, Lot J2-MEB575126			(Purchased Reagent)		Antimony	10 ppm
							Boron	25 ppm
							Selenium	25 ppm
							Si	250 ppm
							Sn	50 ppm
MICSAX_00087	02/07/17	11/07/16	DI Water, Lot J38N82	100 mL	M6020ICS-0A_00006	10 mL	Aluminum	100 ppm
							Ca	100 ppm
							Fe	100 ppm
							K	100 ppm
							Mg	100 ppm
							Mo	2 ppm
							Na	100 ppm
							Ti	2 ppm
.M6020ICS-0A_00006	01/26/18	Inorganic Ventures, Lot J2-MEB533111			(Purchased Reagent)		Aluminum	1000 ppm
							Ca	1000 ppm
							Fe	1000 ppm
							K	1000 ppm
							Mg	1000 ppm
							Mo	20 ppm
							Na	1000 ppm
							Ti	20 ppm
MICVX_00050	12/31/16	11/07/16	2% Nitric Acid, Lot 25106	250 mg/L	MICPMSICV_00019	10 mg/L	Aluminum	0.4 mg/L

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Antimony	0.08 mg/L
							Arsenic	0.08 mg/L
							Barium	0.08 mg/L
							Beryllium	0.08 mg/L
							Boron	0.08 mg/L
							Cadmium	0.08 mg/L
							Chromium	0.08 mg/L
							Cobalt	0.08 mg/L
							Copper	0.08 mg/L
							Lead	0.08 mg/L
							Manganese	0.4 mg/L
							Nickel	0.08 mg/L
							Selenium	0.08 mg/L
							Silver	0.08 mg/L
							Thallium	0.08 mg/L
							Vanadium	0.08 mg/L
							Zinc	0.08 mg/L
.MICPMSICV_00019	12/31/16	SPEX CertiPrep, Lot 10-166WL			(Purchased Reagent)		Aluminum	10 ppm
							Antimony	2 ppm
							Arsenic	2 ppm
							Barium	2 ppm
							Beryllium	2 ppm
							Boron	2 ppm
							Cadmium	2 ppm
							Chromium	2 ppm
							Cobalt	2 ppm
							Copper	2 ppm
							Lead	2 ppm
							Manganese	10 ppm
							Nickel	2 ppm
							Selenium	2 ppm
							Silver	2 ppm
							Thallium	2 ppm
							Vanadium	2 ppm
							Zinc	2 ppm
MSTD2X_00064	02/17/17	11/17/16	DI Water, Lot 1241717	250 mL	MCALSPECAREV_00007	10 mg/L	Aluminum	1 ppm
							Arsenic	0.2 ppm
							Barium	0.2 ppm
							Beryllium	0.2 ppm
							Cadmium	0.2 ppm
							Chromium	0.2 ppm
							Cobalt	0.2 ppm
							Copper	0.2 ppm
							Lead	0.2 ppm
							Manganese	1 ppm
							Nickel	0.2 ppm
							Selenium	0.2 ppm

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Silver	0.2 ppm
							Thallium	0.2 ppm
							Vanadium	0.2 ppm
							Zinc	0.2 ppm
.MCALSPECAREV_00007	03/01/17	Inorganic Ventures, Lot J2-MEB575123			(Purchased Reagent)		Aluminum	25 ppm
							Arsenic	5 ppm
							Barium	5 ppm
							Beryllium	5 ppm
							Cadmium	5 ppm
							Chromium	5 ppm
							Cobalt	5 ppm
							Copper	5 ppm
							Lead	5 ppm
							Manganese	25 ppm
							Nickel	5 ppm
							Selenium	5 ppm
							Silver	5 ppm
							Thallium	5 ppm
							Vanadium	5 ppm
							Zinc	5 ppm
MSTD3X_00064	02/17/17	11/17/16	2% Nitric Acid, Lot 1241747	250 mL	MCALSPECB_00009	10 mg/L	Antimony	0.2 ppm
							Boron	0.2 ppm
.MCALSPECB_00009	03/01/17	Inorganic Ventures, Lot J2-MEB575124			(Purchased Reagent)		Antimony	5 ppm
							Boron	5 ppm
MTAPITTICPMS_00023	01/01/17	INORGANIC VENTURES, Lot H2-MEB532047			(Purchased Reagent)		Aluminum	200 ug/mL
							Arsenic	4 ug/mL
							Barium	200 ug/mL
							Beryllium	5 ug/mL
							Boron	100 ug/mL
							Cadmium	5 ug/mL
							Chromium	20 ug/mL
							Cobalt	50 ug/mL
							Copper	25 ug/mL
							Lead	2 ug/mL
							Manganese	50 ug/mL
							Nickel	50 ug/mL
							Selenium	1 ug/mL
							Silver	5 ug/mL
							Thallium	5 ug/mL
							Vanadium	50 ug/mL
							Zinc	50 ug/mL
MTAPITTICPMS_00025	09/01/17	INORGANIC VENTURES, Lot H2-MEB532047			(Purchased Reagent)		Aluminum	200 ug/mL
							Arsenic	4 ug/mL
							Barium	200 ug/mL
							Beryllium	5 ug/mL
							Boron	100 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cadmium	5 ug/mL
							Chromium	20 ug/mL
							Cobalt	50 ug/mL
							Copper	25 ug/mL
							Fe	100 ug/mL
							Lead	2 ug/mL
							Manganese	50 ug/mL
							Nickel	50 ug/mL
							Selenium	1 ug/mL
							Silver	5 ug/mL
							Sr	100 ug/mL
							Thallium	5 ug/mL
							Vanadium	50 ug/mL
							Zinc	50 ug/mL
MTAPITTMSA_00032	09/01/17	INORGANIC VENTURES, Lot J2-MEB608140			(Purchased Reagent)		Ca	5000 ug/mL
							K	5000 ug/mL
							Mg	5000 ug/mL
							Na	5000 ug/mL
MTAPITTMSC_00037	08/01/17	Inorganic Ventures, Lot J2-MEB608141			(Purchased Reagent)		Antimony	50 ug/mL
MTAPITTMSC_00038	08/01/17	Inorganic Ventures, Lot J2-MEB608141			(Purchased Reagent)		Antimony	50 ug/mL
							Mo	100 ug/mL
							Si	1000 ug/mL
							SiO2	2140 ug/mL
							Sn	200 ug/mL
							Ti	100 ug/mL
OP/PESTPCBRTS_00006	12/31/16	RESTEK, Lot A0100267			(Purchased Reagent)		DCB Decachlorobiphenyl	0.2 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.2 ug/mL
							Tetrachloro-m-xylene	0.2 ug/mL
OPHERBRTSSURR_00006	05/31/17	RESTEK, Lot A0115101			(Purchased Reagent)		2,4-Dichlorophenylacetic acid	10 ug/mL
OPLVISPKMIX1i_00054	04/29/17	10/29/16	Methanol, Lot 0000082533	250 mL	SVLVstd1_00041	50 mL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Azobenzene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							Methyl Phenols,Total	400 ug/mL
							Methylphenol, 3 & 4	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	200 ug/mL
							Total Cresols	400 ug/mL
					SVLVstd10_00006	25 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SVLVstd11_00006	25 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SVLVstd9_00006	25 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
.SVLVstd1_00041	04/30/17		Restek, Lot A0114832		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							Methyl Phenols,Total	2000 ug/mL
							Methylphenol, 3 & 4	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
							Total Cresols	2000 ug/mL
.SVLVstd10_00006	05/31/17		Restek, Lot A0115596		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
.SVLVstd11_00006	05/31/17		Restek, Lot A0115387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.SVLVstd9_00006	09/30/17		Restek, Lot A0118008		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
OPPESTMATRIX_00019	02/26/17	08/26/16	ACETONE, Lot 1078945	200 mL	GCPESTAB3STD_00001	0.1 mL	4,4'-DDD	1 ug/mL
							4,4'-DDE	1 ug/mL
							4,4'-DDT	1 ug/mL
							Aldrin	1 ug/mL
							alpha-BHC	1 ug/mL
							beta-BHC	1 ug/mL
							cis-Chlordane	1 ug/mL
							delta-BHC	1 ug/mL
							Dieldrin	1 ug/mL
							Endosulfan I	1 ug/mL
							Endosulfan II	1 ug/mL
							Endosulfan sulfate	1 ug/mL
							Endrin	1 ug/mL
							Endrin aldehyde	1 ug/mL
							Endrin ketone	1 ug/mL
							gamma-BHC (Lindane)	1 ug/mL
							Heptachlor	1 ug/mL
							Heptachlor epoxide	1 ug/mL
							Methoxychlor	1 ug/mL
							trans-Chlordane	1 ug/mL
.GCPESTAB3STD_00001	02/28/17		RESTEK, Lot A093456		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							beta-BHC	2000 ug/mL
							cis-Chlordane	2000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
							trans-Chlordane	2000 ug/mL
OPQL8270SURi_00049	04/24/17	10/24/16	Methanol, Lot b#00000147462	500 mL	SVLVSURSPK_00002	20 mL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
.SVLVSURSPK_00002	08/31/19	Restek, Lot A0103960			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SVTAPITINTRNi_00012	09/15/17	09/15/16	MeCl2, Lot 2022771	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
.SVLVIntstd_00004	02/28/18	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SVTAPSTD0.38i_00001	03/14/17	09/24/16	MeCl2, Lot 2022771	1 mL	SVTAPITINTRNi_00012	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00015	4.75 uL	Benzo[e]pyrene	0.19 ug/mL
							2,3,5,6-Tetrachlorophenol	0.19 ug/mL
							2-Naphthylamine	0.19 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							7,12-Dimethylbenz(a)anthracene	0.19 ug/mL
							1,1'-Biphenyl	0.19 ug/mL
							1,2,4,5-Tetrachlorobenzene	0.19 ug/mL
							1,2,4-Trichlorobenzene	0.19 ug/mL
							1,2-Dichlorobenzene	0.19 ug/mL
							1,2-Diphenylhydrazine	0.19 ug/mL
							1,3-Dichlorobenzene	0.19 ug/mL
							1,3-Dinitrobenzene	0.19 ug/mL
							1,4-Dichlorobenzene	0.19 ug/mL
							1,4-Dioxane	0.19 ug/mL
							1-Methylnaphthalene	0.19 ug/mL
							2,2'-oxybis[1-chloropropane]	0.19 ug/mL
							2,3,4,6-Tetrachlorophenol	0.19 ug/mL
							2,4,5-Trichlorophenol	0.19 ug/mL
							2,4,6-Trichlorophenol	0.19 ug/mL
							2,4-Dichlorophenol	0.19 ug/mL
							2,4-Dimethylphenol	0.19 ug/mL
							2,4-Dinitrophenol	0.38 ug/mL
							2,4-Dinitrotoluene	0.19 ug/mL
							2,6-Dichlorophenol	0.19 ug/mL
							2,6-Dinitrotoluene	0.19 ug/mL
							2-Chloronaphthalene	0.19 ug/mL
							2-Chlorophenol	0.19 ug/mL
							2-Methylnaphthalene	0.19 ug/mL
							2-Methylphenol	0.19 ug/mL
							2-Nitroaniline	0.19 ug/mL
							2-Nitrophenol	0.19 ug/mL
							3-Nitroaniline	0.19 ug/mL
							4,6-Dinitro-2-methylphenol	0.38 ug/mL
							4-Bromophenyl phenyl ether	0.19 ug/mL
							4-Chloro-3-methylphenol	0.19 ug/mL
							4-Chloroaniline	0.19 ug/mL
							4-Chlorophenyl phenyl ether	0.19 ug/mL
							4-Nitroaniline	0.19 ug/mL
							4-Nitrophenol	0.38 ug/mL
							Acenaphthene	0.19 ug/mL
							Acenaphthylene	0.19 ug/mL
							Acetophenone	0.19 ug/mL
							Aniline	0.19 ug/mL
							Anthracene	0.19 ug/mL
							Benzo[a]anthracene	0.19 ug/mL
							Benzo[a]pyrene	0.19 ug/mL
							Benzo[b]fluoranthene	0.19 ug/mL
							Benzo[g,h,i]perylene	0.19 ug/mL
							Benzo[k]fluoranthene	0.19 ug/mL
							Benzyl alcohol	0.19 ug/mL
							Bis(2-chloroethoxy)methane	0.19 ug/mL
							Bis(2-chloroethyl)ether	0.19 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-ethylhexyl) phthalate	0.19 ug/mL
							Butyl benzyl phthalate	0.19 ug/mL
							Carbazole	0.19 ug/mL
							Chrysene	0.19 ug/mL
							Di-n-butyl phthalate	0.19 ug/mL
							Di-n-octyl phthalate	0.19 ug/mL
							Dibenz(a,h)anthracene	0.19 ug/mL
							Dibenzofuran	0.19 ug/mL
							Diethyl phthalate	0.19 ug/mL
							Dimethyl phthalate	0.19 ug/mL
							Fluoranthene	0.19 ug/mL
							Fluorene	0.19 ug/mL
							Hexachlorobenzene	0.19 ug/mL
							Hexachlorobutadiene	0.19 ug/mL
							Hexachlorocyclopentadiene	0.19 ug/mL
							Hexachloroethane	0.19 ug/mL
							Hexadecane	0.19 ug/mL
							Indeno[1,2,3-cd]pyrene	0.19 ug/mL
							Isophorone	0.19 ug/mL
							Methylphenol, 3 & 4	0.19 ug/mL
							n-Decane	0.19 ug/mL
							N-Nitrosodi-n-propylamine	0.19 ug/mL
							N-Nitrosodimethylamine	0.19 ug/mL
							N-Nitrosodiphenylamine	0.19 ug/mL
							n-Octadecane	0.19 ug/mL
							Naphthalene	0.19 ug/mL
							Nitrobenzene	0.19 ug/mL
							Pentachlorophenol	0.38 ug/mL
							Phenanthrene	0.19 ug/mL
							Phenol	0.19 ug/mL
							Pyrene	0.19 ug/mL
							Pyridine	0.19 ug/mL
							Benzoic acid	0.19 ug/mL
							Indene	0.19 ug/mL
							Atrazine	0.19 ug/mL
							Benzaldehyde	0.19 ug/mL
							Caprolactam	0.19 ug/mL
							3,3'-Dichlorobenzidine	0.19 ug/mL
							Benzidine	0.19 ug/mL
							2,4,6-Tribromophenol (Surr)	0.19 ug/mL
							2-Fluorobiphenyl	0.19 ug/mL
							2-Fluorophenol (Surr)	0.19 ug/mL
							Nitrobenzene-d5 (Surr)	0.19 ug/mL
							Phenol-d5 (Surr)	0.19 ug/mL
							Terphenyl-d14 (Surr)	0.19 ug/mL
							Methyl methanesulfonate	0.19 ug/mL
							N-Nitrosopyrrolidine	0.19 ug/mL
.SVTAPITINTRNi_00012	09/15/17	09/15/16	MeCl2, Lot 2022771	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00015	03/24/17	09/24/16	MeCl2, Lot 2022771	20 mL	sv benzoepyre_00003	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00003	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00004	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00041	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							Methylphenol, 3 & 4	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
					SVLVstd10_00006	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SVLVstd11_00006	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00006	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURSPK_00002	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00017	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00003	03/17/20	Absolute, Lot 031715			(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00003	09/21/20	Absolute, Lot 092115			(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00004	06/30/17	Ultra Scientific, Lot Ck-1617			(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20	Absolute, Lot 040915			(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00041	04/30/17	Restek, Lot A0114832			(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							Methylphenol, 3 & 4	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SVLVstd10_00006	05/31/17		Restek, Lot A0115596		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00006	05/31/17		Restek, Lot A0115387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00006	09/30/17		Restek, Lot A0118008		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURSPK_00002	08/31/19		Restek, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00017	01/08/19		absolute, Lot 010816		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD10i_00187	10/01/16	09/24/16	MeCl2, Lot 2022771	1 mL	SVTAPITINTRNi_00012	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00015	125 uL	Benzo[e]pyrene	5 ug/mL
							2,3,5,6-Tetrachlorophenol	5 ug/mL
							2-Naphthylamine	5 ug/mL
							7,12-Dimethylbenz(a)anthracene	5 ug/mL
							1,1'-Biphenyl	5 ug/mL
							1,2,4,5-Tetrachlorobenzene	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Diphenylhydrazine	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dinitrobenzene	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	5 ug/mL
							1-Methylnaphthalene	5 ug/mL
							2,2'-oxybis[1-chloropropane]	5 ug/mL
							2,3,4,6-Tetrachlorophenol	5 ug/mL
							2,4,5-Trichlorophenol	5 ug/mL
							2,4,6-Trichlorophenol	5 ug/mL
							2,4-Dichlorophenol	5 ug/mL
							2,4-Dimethylphenol	5 ug/mL
							2,4-Dinitrophenol	10 ug/mL
							2,4-Dinitrotoluene	5 ug/mL
							2,6-Dichlorophenol	5 ug/mL
							2,6-Dinitrotoluene	5 ug/mL
							2-Chloronaphthalene	5 ug/mL
							2-Chlorophenol	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	5 ug/mL
							2-Methylphenol	5 ug/mL
							2-Nitroaniline	5 ug/mL
							2-Nitrophenol	5 ug/mL
							3-Nitroaniline	5 ug/mL
							4,6-Dinitro-2-methylphenol	10 ug/mL
							4-Bromophenyl phenyl ether	5 ug/mL
							4-Chloro-3-methylphenol	5 ug/mL
							4-Chloroaniline	5 ug/mL
							4-Chlorophenyl phenyl ether	5 ug/mL
							4-Nitroaniline	5 ug/mL
							4-Nitrophenol	10 ug/mL
							Acenaphthene	5 ug/mL
							Acenaphthylene	5 ug/mL
							Acetophenone	5 ug/mL
							Aniline	5 ug/mL
							Anthracene	5 ug/mL
							Benzo[a]anthracene	5 ug/mL
							Benzo[a]pyrene	5 ug/mL
							Benzo[b]fluoranthene	5 ug/mL
							Benzo[g,h,i]perylene	5 ug/mL
							Benzo[k]fluoranthene	5 ug/mL
							Benzyl alcohol	5 ug/mL
							Bis(2-chloroethoxy)methane	5 ug/mL
							Bis(2-chloroethyl)ether	5 ug/mL
							Bis(2-ethylhexyl) phthalate	5 ug/mL
							Butyl benzyl phthalate	5 ug/mL
							Carbazole	5 ug/mL
							Chrysene	5 ug/mL
							Di-n-butyl phthalate	5 ug/mL
							Di-n-octyl phthalate	5 ug/mL
							Dibenz(a,h)anthracene	5 ug/mL
							Dibenzofuran	5 ug/mL
							Diethyl phthalate	5 ug/mL
							Dimethyl phthalate	5 ug/mL
							Fluoranthene	5 ug/mL
							Fluorene	5 ug/mL
							Hexachlorobenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexachlorocyclopentadiene	5 ug/mL
							Hexachloroethane	5 ug/mL
							Hexadecane	5 ug/mL
							Indeno[1,2,3-cd]pyrene	5 ug/mL
							Isophorone	5 ug/mL
							Methylphenol, 3 & 4	5 ug/mL
							n-Decane	5 ug/mL
							N-Nitrosodi-n-propylamine	5 ug/mL
							N-Nitrosodimethylamine	5 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiphenylamine	5 ug/mL
							n-Octadecane	5 ug/mL
							Naphthalene	5 ug/mL
							Nitrobenzene	5 ug/mL
							Pentachlorophenol	10 ug/mL
							Phenanthrene	5 ug/mL
							Phenol	5 ug/mL
							Pyrene	5 ug/mL
							Pyridine	5 ug/mL
							Benzoic acid	5 ug/mL
							Indene	5 ug/mL
							Atrazine	5 ug/mL
							Benzaldehyde	5 ug/mL
							Caprolactam	5 ug/mL
							3,3'-Dichlorobenzidine	5 ug/mL
							Benzidine	5 ug/mL
							2,4,6-Tribromophenol (Surr)	5 ug/mL
							2-Fluorobiphenyl	5 ug/mL
							2-Fluorophenol (Surr)	5 ug/mL
							Nitrobenzene-d5 (Surr)	5 ug/mL
							Phenol-d5 (Surr)	5 ug/mL
							Terphenyl-d14 (Surr)	5 ug/mL
							Methyl methanesulfonate	5 ug/mL
							N-Nitrosopyrrolidine	5 ug/mL
.SVTAPITINTRNi_00012	09/15/17	09/15/16	MeCl2, Lot 2022771	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00015	03/24/17	09/24/16	MeCl2, Lot 2022771	20 mL	sv benzoepyre_00003	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00003	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00004	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00041	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							Methylphenol, 3 & 4	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
					SVLVstd10_00006	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00006	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00006	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURSPK_00002	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00017	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00003	03/17/20	Absolute, Lot 031715			(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00003	09/21/20	Absolute, Lot 092115			(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00004	06/30/17	Ultra Scientific, Lot Ck-1617			(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20	Absolute, Lot 040915			(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00041	04/30/17	Restek, Lot A0114832			(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							Methylphenol, 3 & 4	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00006	05/31/17		Restek, Lot A0115596		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00006	05/31/17		Restek, Lot A0115387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00006	09/30/17		Restek, Lot A0118008		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURSPK_00002	08/31/19		Restek, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00017	01/08/19		absolute, Lot 010816		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD10i_00197	11/25/16	11/18/16	MeCl2, Lot 2022771	1 mL	SVTAPITINTRNi_00012	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
.SVTAPITINTRNi_00012	09/15/17	09/15/16	MeCl2, Lot 2022771	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SVTAPSTD10i_00197	11/25/16	11/18/16	MeCl2, Lot 2022771	1 mL	SVTAPITSTCKi_00015	125 uL	1,1'-Biphenyl	5 ug/mL
							1,2,4,5-Tetrachlorobenzene	5 ug/mL
							1,4-Dioxane	5 ug/mL
							1-Methylnaphthalene	5 ug/mL
							2,2'-oxybis[1-chloropropane]	5 ug/mL
							2,3,4,6-Tetrachlorophenol	5 ug/mL
							2,4,5-Trichlorophenol	5 ug/mL
							2,4,6-Trichlorophenol	5 ug/mL
							2,4-Dichlorophenol	5 ug/mL
							2,4-Dimethylphenol	5 ug/mL
							2,4-Dinitrophenol	10 ug/mL
							2,4-Dinitrotoluene	5 ug/mL
							2,6-Dinitrotoluene	5 ug/mL
							2-Chloronaphthalene	5 ug/mL
							2-Chlorophenol	5 ug/mL
							2-Methylnaphthalene	5 ug/mL
							2-Methylphenol	5 ug/mL
							2-Nitroaniline	5 ug/mL
							2-Nitrophenol	5 ug/mL
							3-Nitroaniline	5 ug/mL
							4,6-Dinitro-2-methylphenol	10 ug/mL
							4-Bromophenyl phenyl ether	5 ug/mL
							4-Chloro-3-methylphenol	5 ug/mL
							4-Chlorophenyl phenyl ether	5 ug/mL
							4-Nitroaniline	5 ug/mL
							4-Nitrophenol	10 ug/mL
							Acenaphthene	5 ug/mL
							Acenaphthylene	5 ug/mL
							Acetophenone	5 ug/mL
							Anthracene	5 ug/mL
							Benzo[a]anthracene	5 ug/mL
							Benzo[a]pyrene	5 ug/mL
							Benzo[b]fluoranthene	5 ug/mL
							Benzo[g,h,i]perylene	5 ug/mL
							Benzo[k]fluoranthene	5 ug/mL
							Bis(2-chloroethoxy)methane	5 ug/mL
							Bis(2-chloroethyl)ether	5 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-ethylhexyl) phthalate	5 ug/mL
							Butyl benzyl phthalate	5 ug/mL
							Carbazole	5 ug/mL
							Di-n-butyl phthalate	5 ug/mL
							Di-n-octyl phthalate	5 ug/mL
							Dibenz(a,h)anthracene	5 ug/mL
							Dibenzofuran	5 ug/mL
							Diethyl phthalate	5 ug/mL
							Dimethyl phthalate	5 ug/mL
							Fluoranthene	5 ug/mL
							Fluorene	5 ug/mL
							Hexachlorobenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexachlorocyclopentadiene	5 ug/mL
							Hexachloroethane	5 ug/mL
							Indeno[1,2,3-cd]pyrene	5 ug/mL
							Isophorone	5 ug/mL
							Methylphenol, 3 & 4	5 ug/mL
							N-Nitrosodi-n-propylamine	5 ug/mL
							N-Nitrosodiphenylamine	5 ug/mL
							Naphthalene	5 ug/mL
							Nitrobenzene	5 ug/mL
							Pentachlorophenol	10 ug/mL
							Phenanthrene	5 ug/mL
							Phenol	5 ug/mL
							Pyrene	5 ug/mL
							Atrazine	5 ug/mL
							Benzaldehyde	5 ug/mL
							Caprolactam	5 ug/mL
							3,3'-Dichlorobenzidine	5 ug/mL
							2,4,6-Tribromophenol (Surr)	5 ug/mL
							2-Fluorobiphenyl	5 ug/mL
							2-Fluorophenol (Surr)	5 ug/mL
							Nitrobenzene-d5 (Surr)	5 ug/mL
							Phenol-d5 (Surr)	5 ug/mL
							Terphenyl-d14 (Surr)	5 ug/mL
.SVTAPITSTCKi_00015	03/24/17	09/24/16	MeCl2, Lot 2022771	20 mL	SVLVstd1_00041	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							Methylphenol, 3 & 4	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
					SVLVstd11_00006	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00006	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
					SVLVSURSPK_00002	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SVLVstd1_00041	04/30/17		Restek, Lot A0114832		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							Methylphenol, 3 & 4	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
..SVLVstd11_00006	05/31/17		Restek, Lot A0115387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00006	09/30/17		Restek, Lot A0118008		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
..SVLVSURSPK_00002	08/31/19		Restek, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SVTAPSTD2.0i_00011	03/24/17	09/14/16	MeCl2, Lot 2022771	1 mL	SVTAPITINTRNi_00012	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00015	25 uL	Benzo[e]pyrene	1 ug/mL
							2,3,5,6-Tetrachlorophenol	1 ug/mL
							2-Naphthylamine	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							7,12-Dimethylbenz(a)anthracene	1 ug/mL
							1,1'-Biphenyl	1 ug/mL
							1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,2-Diphenylhydrazine	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,3-Dinitrobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL
							2,4-Dimethylphenol	1 ug/mL
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dichlorophenol	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL
							4-Chloro-3-methylphenol	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							4-Nitroaniline	1 ug/mL
							4-Nitrophenol	2 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Aniline	1 ug/mL
							Anthracene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Benzyl alcohol	1 ug/mL
							Bis(2-chloroethoxy)methane	1 ug/mL
							Bis(2-chloroethyl)ether	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Di-n-octyl phthalate	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Hexachlorocyclopentadiene	1 ug/mL
							Hexachloroethane	1 ug/mL
							Hexadecane	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							Methylphenol, 3 & 4	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Pentachlorophenol	2 ug/mL
							Phenanthrene	1 ug/mL
							Phenol	1 ug/mL
							Pyrene	1 ug/mL
							Pyridine	1 ug/mL
							Benzoic acid	1 ug/mL
							Indene	1 ug/mL
							Atrazine	1 ug/mL
							Benzaldehyde	1 ug/mL
							Caprolactam	1 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Benzidine	1 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL
							2-Fluorobiphenyl	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
							Methyl methanesulfonate	1 ug/mL
							N-Nitrosopyrrolidine	1 ug/mL
.SVTAPITINTRNi_00012	09/15/17	09/15/16	MeCl2, Lot 2022771	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00015	03/24/17	09/24/16	MeCl2, Lot 2022771	20 mL	sv benzoepyre_00003	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00003	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00004	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00041	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							Methylphenol, 3 & 4	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
					SVLVstd10_00006	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SVLVstd11_00006	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00006	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURSPK_00002	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00017	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00003	03/17/20	Absolute, Lot 031715			(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00003	09/21/20	Absolute, Lot 092115			(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00004	06/30/17	Ultra Scientific, Lot Ck-1617			(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20	Absolute, Lot 040915			(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00041	04/30/17	Restek, Lot A0114832			(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							Methylphenol, 3 & 4	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SVLVstd10_00006	05/31/17		Restek, Lot A0115596		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00006	05/31/17		Restek, Lot A0115387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00006	09/30/17		Restek, Lot A0118008		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURSPK_00002	08/31/19		Restek, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00017	01/08/19		absolute, Lot 010816		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD20i_00010	03/24/17	09/24/16	MeCl2, Lot 2022771	1 mL	SVTAPITINTRNi_00012	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00015	250 uL	Benzo[e]pyrene	10 ug/mL
							2,3,5,6-Tetrachlorophenol	10 ug/mL
							2-Naphthylamine	10 ug/mL
							7,12-Dimethylbenz(a)anthracene	10 ug/mL
							1,1'-Biphenyl	10 ug/mL
							1,2,4,5-Tetrachlorobenzene	10 ug/mL
							1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL
							1,2-Diphenylhydrazine	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							1,4-Dichlorobenzene	10 ug/mL
							1,4-Dioxane	10 ug/mL
							1-Methylnaphthalene	10 ug/mL
							2,2'-oxybis[1-chloropropane]	10 ug/mL
							2,3,4,6-Tetrachlorophenol	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dichlorophenol	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Acetophenone	10 ug/mL
							Aniline	10 ug/mL
							Anthracene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Benzyl alcohol	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Hexadecane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							Methylphenol, 3 & 4	10 ug/mL
							n-Decane	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiphenylamine	10 ug/mL
							n-Octadecane	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							Pyridine	10 ug/mL
							Benzoic acid	10 ug/mL
							Indene	10 ug/mL
							Atrazine	10 ug/mL
							Benzaldehyde	10 ug/mL
							Caprolactam	10 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
							Benzidine	10 ug/mL
							2,4,6-Tribromophenol (Surr)	10 ug/mL
							2-Fluorobiphenyl	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
							Methyl methanesulfonate	10 ug/mL
							N-Nitrosopyrrolidine	10 ug/mL
.SVTAPITINTRNi_00012	09/15/17	09/15/16	MeCl2, Lot 2022771	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00015	03/24/17	09/24/16	MeCl2, Lot 2022771	20 mL	sv benzoepyre_00003	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00003	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00004	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00041	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							Methylphenol, 3 & 4	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
					SVLVstd10_00006	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00006	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00006	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURSPK_00002	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00017	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00003	03/17/20	Absolute, Lot 031715			(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00003	09/21/20	Absolute, Lot 092115			(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00004	06/30/17	Ultra Scientific, Lot Ck-1617			(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20	Absolute, Lot 040915			(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00041	04/30/17	Restek, Lot A0114832			(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							Methylphenol, 3 & 4	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00006	05/31/17		Restek, Lot A0115596		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00006	05/31/17		Restek, Lot A0115387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00006	09/30/17		Restek, Lot A0118008		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURSPK_00002	08/31/19		Restek, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00017	01/08/19		absolute, Lot 010816		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD4.0i_00011	03/24/17	09/24/16	MeCl2, Lot 2022771	1 mL	SVTAPITINTRNi_00012	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00015	50 uL	Benzo[e]pyrene	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,3,5,6-Tetrachlorophenol	2 ug/mL
							2-Naphthylamine	2 ug/mL
							7,12-Dimethylbenz(a)anthracene	2 ug/mL
							1,1'-Biphenyl	2 ug/mL
							1,2,4,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,2-Diphenylhydrazine	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL
							1,3-Dinitrobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							1-Methylnaphthalene	2 ug/mL
							2,2'-oxybis[1-chloropropane]	2 ug/mL
							2,3,4,6-Tetrachlorophenol	2 ug/mL
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL
							3-Nitroaniline	2 ug/mL
							4,6-Dinitro-2-methylphenol	4 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL
							4-Nitroaniline	2 ug/mL
							4-Nitrophenol	4 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Acetophenone	2 ug/mL
							Aniline	2 ug/mL
							Anthracene	2 ug/mL
							Benzo[a]anthracene	2 ug/mL
							Benzo[a]pyrene	2 ug/mL
							Benzo[b]fluoranthene	2 ug/mL
							Benzo[g,h,i]perylene	2 ug/mL
							Benzo[k]fluoranthene	2 ug/mL
							Benzyl alcohol	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	2 ug/mL
							Bis(2-chloroethyl)ether	2 ug/mL
							Bis(2-ethylhexyl) phthalate	2 ug/mL
							Butyl benzyl phthalate	2 ug/mL
							Carbazole	2 ug/mL
							Chrysene	2 ug/mL
							Di-n-butyl phthalate	2 ug/mL
							Di-n-octyl phthalate	2 ug/mL
							Dibenz(a,h)anthracene	2 ug/mL
							Dibenzofuran	2 ug/mL
							Diethyl phthalate	2 ug/mL
							Dimethyl phthalate	2 ug/mL
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Hexadecane	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL
							Isophorone	2 ug/mL
							Methylphenol, 3 & 4	2 ug/mL
							n-Decane	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL
							N-Nitrosodimethylamine	2 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							n-Octadecane	2 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							Pentachlorophenol	4 ug/mL
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	2 ug/mL
							Benzoic acid	2 ug/mL
							Indene	2 ug/mL
							Atrazine	2 ug/mL
							Benzaldehyde	2 ug/mL
							Caprolactam	2 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Benzidine	2 ug/mL
							2,4,6-Tribromophenol (Surr)	2 ug/mL
							2-Fluorobiphenyl	2 ug/mL
							2-Fluorophenol (Surr)	2 ug/mL
							Nitrobenzene-d5 (Surr)	2 ug/mL
							Phenol-d5 (Surr)	2 ug/mL
							Terphenyl-d14 (Surr)	2 ug/mL
							Methyl methanesulfonate	2 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosopyrrolidine	2 ug/mL
.SVTAPITINTRNi_00012	09/15/17	09/15/16	MeCl2, Lot 2022771	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00015	03/24/17	09/24/16	MeCl2, Lot 2022771	20 mL	sv benzoepyre_00003	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00003	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00004	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00041	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							Methylphenol, 3 & 4	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SVLVstd10_00006	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00006	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00006	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURSPK_00002	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00017	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00003	03/17/20	Absolute, Lot 031715			(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00003	09/21/20	Absolute, Lot 092115			(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00004	06/30/17	Ultra Scientific, Lot Ck-1617			(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20	Absolute, Lot 040915			(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00041	04/30/17	Restek, Lot A0114832			(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							Methylphenol, 3 & 4	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00006	05/31/17		Restek, Lot A0115596		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00006	05/31/17		Restek, Lot A0115387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00006	09/30/17		Restek, Lot A0118008		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURSPK_00002	08/31/19		Restek, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00017	01/08/19		absolute, Lot 010816		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD40i_00010	03/24/17	09/14/16	MeCl2, Lot 2022771	1 mL	SVTAPITINTRNi_00012	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00015	500 uL	Benzo[e]pyrene	20 ug/mL
							2,3,5,6-Tetrachlorophenol	20 ug/mL
							2-Naphthylamine	20 ug/mL
							7,12-Dimethylbenz(a)anthracene	20 ug/mL
							1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2,2'-oxybis[1-chloropropane]	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dichlorophenol	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Hexadecane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							Methylphenol, 3 & 4	20 ug/mL
							n-Decane	20 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							n-Octadecane	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	20 ug/mL
							Benzoic acid	20 ug/mL
							Indene	20 ug/mL
							Atrazine	20 ug/mL
							Benzaldehyde	20 ug/mL
							Caprolactam	20 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							Benzidine	20 ug/mL
							2,4,6-Tribromophenol (Surr)	20 ug/mL
							2-Fluorobiphenyl	20 ug/mL
							2-Fluorophenol (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20 ug/mL
							Phenol-d5 (Surr)	20 ug/mL
							Terphenyl-d14 (Surr)	20 ug/mL
							Methyl methanesulfonate	20 ug/mL
							N-Nitrosopyrrolidine	20 ug/mL
.SVTAPITINTRNi_00012	09/15/17	09/15/16	MeCl2, Lot 2022771	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00015	03/24/17	09/24/16	MeCl2, Lot 2022771	20 mL	sv benzoepyre_00003	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00003	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00004	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00041	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							Methylphenol, 3 & 4	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
					SVLVstd10_00006	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00006	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00006	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURSPK_00002	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00017	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00003	03/17/20	Absolute, Lot 031715			(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00003	09/21/20	Absolute, Lot 092115			(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00004	06/30/17	Ultra Scientific, Lot Ck-1617			(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20	Absolute, Lot 040915			(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00041	04/30/17	Restek, Lot A0114832			(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							Methylphenol, 3 & 4	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00006	05/31/17		Restek, Lot A0115596		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00006	05/31/17		Restek, Lot A0115387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00006	09/30/17		Restek, Lot A0118008		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURSPK_00002	08/31/19		Restek, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00017	01/08/19		absolute, Lot 010816		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD60i_00010	03/24/17	09/24/16	MeCl2, Lot 2022771	1 mL	SVTAPITINTRNi_00012	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00015	750 uL	Benzo[e]pyrene	30 ug/mL
							2,3,5,6-Tetrachlorophenol	30 ug/mL
							2-Naphthylamine	30 ug/mL
							7,12-Dimethylbenz(a)anthracene	30 ug/mL
							1,1'-Biphenyl	30 ug/mL
							1,2,4,5-Tetrachlorobenzene	30 ug/mL
							1,2,4-Trichlorobenzene	30 ug/mL
							1,2-Dichlorobenzene	30 ug/mL
							1,2-Diphenylhydrazine	30 ug/mL
							1,3-Dichlorobenzene	30 ug/mL
							1,3-Dinitrobenzene	30 ug/mL
							1,4-Dichlorobenzene	30 ug/mL
							1,4-Dioxane	30 ug/mL
							1-Methylnaphthalene	30 ug/mL
							2,2'-oxybis[1-chloropropane]	30 ug/mL
							2,3,4,6-Tetrachlorophenol	30 ug/mL
							2,4,5-Trichlorophenol	30 ug/mL
							2,4,6-Trichlorophenol	30 ug/mL
							2,4-Dichlorophenol	30 ug/mL
							2,4-Dimethylphenol	30 ug/mL
							2,4-Dinitrophenol	60 ug/mL
							2,4-Dinitrotoluene	30 ug/mL
							2,6-Dichlorophenol	30 ug/mL
							2,6-Dinitrotoluene	30 ug/mL
							2-Chloronaphthalene	30 ug/mL
							2-Chlorophenol	30 ug/mL
							2-Methylnaphthalene	30 ug/mL
							2-Methylphenol	30 ug/mL
							2-Nitroaniline	30 ug/mL
							2-Nitrophenol	30 ug/mL
							3-Nitroaniline	30 ug/mL
							4,6-Dinitro-2-methylphenol	60 ug/mL
							4-Bromophenyl phenyl ether	30 ug/mL
							4-Chloro-3-methylphenol	30 ug/mL
							4-Chloroaniline	30 ug/mL
							4-Chlorophenyl phenyl ether	30 ug/mL
							4-Nitroaniline	30 ug/mL
							4-Nitrophenol	60 ug/mL
							Acenaphthene	30 ug/mL
							Acenaphthylene	30 ug/mL
							Acetophenone	30 ug/mL
							Aniline	30 ug/mL
							Anthracene	30 ug/mL
							Benzo[a]anthracene	30 ug/mL
							Benzo[a]pyrene	30 ug/mL
							Benzo[b]fluoranthene	30 ug/mL
							Benzo[g,h,i]perylene	30 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[k]fluoranthene	30 ug/mL
							Benzyl alcohol	30 ug/mL
							Bis(2-chloroethoxy)methane	30 ug/mL
							Bis(2-chloroethyl)ether	30 ug/mL
							Bis(2-ethylhexyl) phthalate	30 ug/mL
							Butyl benzyl phthalate	30 ug/mL
							Carbazole	30 ug/mL
							Chrysene	30 ug/mL
							Di-n-butyl phthalate	30 ug/mL
							Di-n-octyl phthalate	30 ug/mL
							Dibenz(a,h)anthracene	30 ug/mL
							Dibenzofuran	30 ug/mL
							Diethyl phthalate	30 ug/mL
							Dimethyl phthalate	30 ug/mL
							Fluoranthene	30 ug/mL
							Fluorene	30 ug/mL
							Hexachlorobenzene	30 ug/mL
							Hexachlorobutadiene	30 ug/mL
							Hexachlorocyclopentadiene	30 ug/mL
							Hexachloroethane	30 ug/mL
							Hexadecane	30 ug/mL
							Indeno[1,2,3-cd]pyrene	30 ug/mL
							Isophorone	30 ug/mL
							Methylphenol, 3 & 4	30 ug/mL
							n-Decane	30 ug/mL
							N-Nitrosodi-n-propylamine	30 ug/mL
							N-Nitrosodimethylamine	30 ug/mL
							N-Nitrosodiphenylamine	30 ug/mL
							n-Octadecane	30 ug/mL
							Naphthalene	30 ug/mL
							Nitrobenzene	30 ug/mL
							Pentachlorophenol	60 ug/mL
							Phenanthrene	30 ug/mL
							Phenol	30 ug/mL
							Pyrene	30 ug/mL
							Pyridine	30 ug/mL
							Benzoic acid	30 ug/mL
							Indene	30 ug/mL
							Atrazine	30 ug/mL
							Benzaldehyde	30 ug/mL
							Caprolactam	30 ug/mL
							3,3'-Dichlorobenzidine	30 ug/mL
							Benzidine	30 ug/mL
							2,4,6-Tribromophenol (Surr)	30 ug/mL
							2-Fluorobiphenyl	30 ug/mL
							2-Fluorophenol (Surr)	30 ug/mL
							Nitrobenzene-d5 (Surr)	30 ug/mL
							Phenol-d5 (Surr)	30 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Terphenyl-d14 (Surr)	30 ug/mL
							Methyl methanesulfonate	30 ug/mL
							N-Nitrosopyrrolidine	30 ug/mL
.SVTAPITINTRNi_00012	09/15/17	09/15/16	MeCl2, Lot 2022771	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00015	03/24/17	09/24/16	MeCl2, Lot 2022771	20 mL	sv benzoepyre_00003	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00003	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00004	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00041	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							Methylphenol, 3 & 4	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
					SVLVstd10_00006	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00006	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00006	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURSPK_00002	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00017	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00003	03/17/20	Absolute, Lot 031715			(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00003	09/21/20	Absolute, Lot 092115			(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00004	06/30/17	Ultra Scientific, Lot Ck-1617			(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20	Absolute, Lot 040915			(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00041	04/30/17	Restek, Lot A0114832			(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							Methylphenol, 3 & 4	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00006	05/31/17		Restek, Lot A0115596		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00006	05/31/17		Restek, Lot A0115387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00006	09/30/17		Restek, Lot A0118008		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURSPK_00002	08/31/19		Restek, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00017	01/08/19		absolute, Lot 010816		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD80i_00010	03/24/17	09/24/16	MeCl2, Lot 2022771	1 mL	SVTAPITINTRNi_00012	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00015	1000 uL	Benzo[e]pyrene	40 ug/mL
							2,3,5,6-Tetrachlorophenol	40 ug/mL
							2-Naphthylamine	40 ug/mL
							7,12-Dimethylbenz(a)anthracene	40 ug/mL
							1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylphenol, 3 & 4	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
							2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
							Methyl methanesulfonate	40 ug/mL
							N-Nitrosopyrrolidine	40 ug/mL
.SVTAPITINTRNi_00012	09/15/17	09/15/16	MeCl2, Lot 2022771	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00015	03/24/17	09/24/16	MeCl2, Lot 2022771	20 mL	sv benzoepyre_00003	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00003	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00004	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00041	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							Methylphenol, 3 & 4	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
					SVLVstd10_00006	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00006	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00006	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURSPK_00002	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00017	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00003	03/17/20	Absolute, Lot 031715			(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00003	09/21/20	Absolute, Lot 092115			(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00004	06/30/17	Ultra Scientific, Lot Ck-1617			(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20	Absolute, Lot 040915			(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00041	04/30/17	Restek, Lot A0114832			(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							Methylphenol, 3 & 4	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00006	05/31/17		Restek, Lot A0115596		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00006	05/31/17		Restek, Lot A0115387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00006	09/30/17		Restek, Lot A0118008		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURSPK_00002	08/31/19		Restek, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00017	01/08/19		absolute, Lot 010816		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL

Method 8270D Low Level

Semivolatile Organic Compounds (GC/MS) Low Level by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Rxi-5SilMS ID: 0.32(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHL #
BGSB22-(0.0-0.5) -161122-S	180-61122-1	57	61	61	62	75	64
BGSB22-(1-2) -161122-S	180-61122-2	61	63	63	60	76	62
BGSB10-(0.0-0.5) -161122-S	180-61122-3	53	69	65	73	94	83
BGSB10-(1-2) -161122-S	180-61122-4	59	66	69	68	84	71
	MB 180-195373/1-A	60	61	61	62	76	76
	LCS 180-195373/2-A	71	70	74	68	87	74
BGSB22-(0.0-0.5) -161122-S MS	180-61122-1 MS	52	60	59	61	79	62
BGSB22-(0.0-0.5) -161122-S MSD	180-61122-1 MSD	56	66	65	67	88	67

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	21-107
PHL = Phenol-d5 (Surr)	29-105
NBZ = Nitrobenzene-d5 (Surr)	35-109
FBP = 2-Fluorobiphenyl	42-100
TBP = 2,4,6-Tribromophenol (Surr)	20-134
TPHL = Terphenyl-d14 (Surr)	36-113

Column to be used to flag recovery values

FORM II 8270D LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: N11250006.D

Lab ID: LCS 180-195373/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
1,1'-Biphenyl	0.667	0.4610	69	40-100	
1,4-Dioxane	0.667	0.4336	65	19-107	
1-Methylnaphthalene	0.667	0.4603	69	41-100	
1,2,4,5-Tetrachlorobenzene	0.667	0.4730	71	38-100	
2-Chloronaphthalene	0.667	0.4498	67	39-100	
2-Chlorophenol	0.667	0.4554	68	38-100	
2,4-Dichlorophenol	0.667	0.4734	71	40-100	
2,4-Dimethylphenol	0.667	0.4951	74	38-100	
2,4-Dinitrophenol	1.33	1.065	80	36-103	
2,4-Dinitrotoluene	0.667	0.5605	84	42-110	
2,6-Dinitrotoluene	0.667	0.5449	82	43-105	
2-Methylnaphthalene	0.667	0.4627	69	39-100	
2-Methylphenol	0.667	0.4692	70	38-100	
Methylphenol, 3 & 4	0.667	0.4885	73	40-100	
2-Nitroaniline	0.667	0.5541	83	33-118	
3-Nitroaniline	0.667	0.5101	77	42-105	
4-Nitroaniline	0.667	0.5364	80	33-115	
2-Nitrophenol	0.667	0.5300	79	40-103	
4-Nitrophenol	1.33	1.194	90	26-133	
2,2'-oxybis[1-chloropropane]	0.667	0.4627	69	23-104	
2,3,4,6-Tetrachlorophenol	0.667	0.5129	77	41-100	
2,4,5-Trichlorophenol	0.667	0.5017	75	42-100	
2,4,6-Trichlorophenol	0.667	0.5025	75	41-103	
4-Chloro-3-methylphenol	0.667	0.5495	82	40-104	
4-Chlorophenyl phenyl ether	0.667	0.4971	75	43-100	
4,6-Dinitro-2-methylphenol	1.33	1.161	87	45-102	
Acenaphthene	0.667	0.4620	69	39-100	
Acenaphthylene	0.667	0.4546	68	42-100	
Acetophenone	0.667	0.4340	65	31-100	
Anthracene	0.667	0.4803	72	43-100	
Atrazine	0.667	0.4651	70	21-108	
Benzaldehyde	0.667	0.3684	55	10-133	
Benzo[a]anthracene	0.667	0.4936	74	43-100	
Benzo[b]fluoranthene	0.667	0.4528	68	40-100	
Benzo[k]fluoranthene	0.667	0.4431	66	44-100	
Benzo[g,h,i]perylene	0.667	0.4664	70	41-102	
Benzo[a]pyrene	0.667	0.4694	70	43-100	
Bis(2-chloroethoxy)methane	0.667	0.4339	65	39-100	
Bis(2-chloroethyl)ether	0.667	0.4214	63	36-100	
Bis(2-ethylhexyl) phthalate	0.667	0.5206	78	43-106	
4-Bromophenyl phenyl ether	0.667	0.5155	77	44-100	
Butyl benzyl phthalate	0.667	0.5038	76	42-108	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: N11250006.D

Lab ID: LCS 180-195373/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
Caprolactam	0.667	0.5944	89	37-112	
Carbazole	0.667	0.4813	72	42-100	
Dibenz(a,h)anthracene	0.667	0.5138	77	40-104	
Dibenzofuran	0.667	0.4488	67	42-100	
Di-n-butyl phthalate	0.667	0.5176	78	44-105	
Di-n-octyl phthalate	0.667	0.5428	81	41-103	
Diethyl phthalate	0.667	0.4924	74	41-101	
Dimethyl phthalate	0.667	0.4985	75	44-100	
Fluoranthene	0.667	0.5142	77	41-104	
Fluorene	0.667	0.4728	71	41-100	
Hexachlorobenzene	0.667	0.4908	74	43-100	
Hexachlorobutadiene	0.667	0.4307	65	35-100	
Hexachlorocyclopentadiene	0.667	0.4544	68	32-102	
Hexachloroethane	0.667	0.3899	58	35-100	
Indeno[1,2,3-cd]pyrene	0.667	0.4848	73	41-104	
Isophorone	0.667	0.4575	69	36-102	
Naphthalene	0.667	0.4452	67	38-100	
Nitrobenzene	0.667	0.4631	69	34-100	
N-Nitrosodiphenylamine	0.667	0.4964	74	41-100	
N-Nitrosodi-n-propylamine	0.667	0.4815	72	37-100	
Pentachlorophenol	1.33	0.9957	75	34-102	
Phenanthrene	0.667	0.4445	67	41-100	
Phenol	0.667	0.4512	68	36-100	
Pyrene	0.667	0.4162	62	42-100	
3,3'-Dichlorobenzidine	0.667	0.4304	65	30-103	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: N11250025.D

Lab ID: 180-61122-1 MS Client ID: BGSB22-(0.0-0.5)-161122-S MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
1,1'-Biphenyl	0.720	0.00322 U	0.4629	64	40-100	
1,4-Dioxane	0.720	0.00413 U	0.2815	39	19-107	
1-Methylnaphthalene	0.720	0.000769 U	0.4384	61	41-100	
1,2,4,5-Tetrachlorobenzene	0.720	0.00273 U	0.4481	62	38-100	
2-Chloronaphthalene	0.720	0.000752 U	0.4540	63	39-100	
2-Chlorophenol	0.720	0.00295 U	0.4333	60	38-100	
2,4-Dichlorophenol	0.720	0.000723 U	0.4608	64	40-100	
2,4-Dimethylphenol	0.720	0.00564 U	0.4074	57	38-100	
2,4-Dinitrophenol	1.44	0.0429 U	0.5790	40	36-103	
2,4-Dinitrotoluene	0.720	0.00291 U	0.5892	82	42-110	
2,6-Dinitrotoluene	0.720	0.00372 U	0.5662	79	43-105	
2-Methylnaphthalene	0.720	0.00137 J	0.4409	61	39-100	
2-Methylphenol	0.720	0.00252 U	0.4623	64	38-100	
Methylphenol, 3 & 4	0.720	0.00353 U	0.4938	69	40-100	
2-Nitroaniline	0.720	0.0161 U	0.5845	81	33-118	
3-Nitroaniline	0.720	0.0148 U	0.4917	68	42-105	
4-Nitroaniline	0.720	0.0146 U	0.5175	72	33-115	
2-Nitrophenol	0.720	0.00397 U	0.4789	66	40-103	
4-Nitrophenol	1.44	0.0131 U	1.024	71	26-133	
2,2'-oxybis[1-chloropropane]	0.720	0.000778 U	0.4441	62	23-104	
2,3,4,6-Tetrachlorophenol	0.720	0.00232 U	0.5199	72	41-100	
2,4,5-Trichlorophenol	0.720	0.00385 U	0.5317	74	42-100	
2,4,6-Trichlorophenol	0.720	0.00540 U	0.5191	72	41-103	
4-Chloro-3-methylphenol	0.720	0.00332 U	0.5486	76	40-104	
4-Chlorophenyl phenyl ether	0.720	0.00401 U	0.5065	70	43-100	
4,6-Dinitro-2-methylphenol	1.44	0.0145 U	0.9143	63	45-102	
Acenaphthene	0.720	0.000692 U	0.4682	65	39-100	
Acenaphthylene	0.720	0.00396 J	0.4619	64	42-100	
Acetophenone	0.720	0.0169 J	0.4677	63	31-100	
Anthracene	0.720	0.00362 J	0.4840	67	43-100	
Atrazine	0.720	0.00351 U	0.3695	51	21-108	
Benzaldehyde	0.720	0.00751 J	0.4077	56	10-133	
Benzo[a]anthracene	0.720	0.0140	0.5363	73	43-100	
Benzo[b]fluoranthene	0.720	0.0202	0.4487	59	40-100	
Benzo[k]fluoranthene	0.720	0.00857	0.4090	56	44-100	
Benzo[g,h,i]perylene	0.720	0.0165	0.5336	72	41-102	
Benzo[a]pyrene	0.720	0.0132	0.4528	61	43-100	
Bis(2-chloroethoxy)methane	0.720	0.00237 U	0.4118	57	39-100	
Bis(2-chloroethyl)ether	0.720	0.000967 U	0.3864	54	36-100	
Bis(2-ethylhexyl) phthalate	0.720	0.0310 J	0.6488	86	43-106	
4-Bromophenyl phenyl ether	0.720	0.00314 U	0.5054	70	44-100	
Butyl benzyl phthalate	0.720	0.00591 J	0.5228	72	42-108	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: N11250025.D

Lab ID: 180-61122-1 MS Client ID: BGSB22-(0.0-0.5)-161122-S MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
Caprolactam	0.720	0.0272 U	0.05352 J	7	37-112	F1
Carbazole	0.720	0.00176 J	0.4961	69	42-100	
Dibenz(a,h)anthracene	0.720	0.00336 J	0.5640	78	40-104	
Dibenzofuran	0.720	0.00355 U	0.4559	63	42-100	
Di-n-butyl phthalate	0.720	0.00485 J	0.5481	75	44-105	
Di-n-octyl phthalate	0.720	0.00380 U	0.5079	71	41-103	
Diethyl phthalate	0.720	0.00394 U	0.5179	72	41-101	
Dimethyl phthalate	0.720	0.00393 U	0.5192	72	44-100	
Fluoranthene	0.720	0.0179	0.5278	71	41-104	
Fluorene	0.720	0.000950 U	0.4841	67	41-100	
Hexachlorobenzene	0.720	0.000768 U	0.4817	67	43-100	
Hexachlorobutadiene	0.720	0.000807 U	0.3781	52	35-100	
Hexachlorocyclopentadiene	0.720	0.00389 U	0.1241	17	32-102	F1
Hexachloroethane	0.720	0.00259 U	0.3251	45	35-100	
Indeno[1,2,3-cd]pyrene	0.720	0.0118	0.5310	72	41-104	
Isophorone	0.720	0.00272 U	0.4313	60	36-102	
Naphthalene	0.720	0.000621 U	0.4173	58	38-100	
Nitrobenzene	0.720	0.00300 U	0.4035	56	34-100	
N-Nitrosodiphenylamine	0.720	0.00334 U	0.4680	65	41-100	
N-Nitrosodi-n-propylamine	0.720	0.000845 U	0.4940	69	37-100	
Pentachlorophenol	1.44	0.00322 U	0.8971	62	34-102	
Phenanthrene	0.720	0.00554 J	0.4587	63	41-100	
Phenol	0.720	0.000852 U	0.4057	56	36-100	
Pyrene	0.720	0.0168	0.4130	55	42-100	
3,3'-Dichlorobenzidine	0.720	0.00381 U	0.1450	20	30-103	F1

Column to be used to flag recovery and RPD values

FORM III 8270D LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: N11250026.D

Lab ID: 180-61122-1 MSD Client ID: BGSB22-(0.0-0.5)-161122-S MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1'-Biphenyl	0.716	0.5114	71	10	20	40-100	
1,4-Dioxane	0.716	0.3058	43	8	20	19-107	
1-Methylnaphthalene	0.716	0.4835	68	10	20	41-100	
1,2,4,5-Tetrachlorobenzene	0.716	0.5022	70	11	20	38-100	
2-Chloronaphthalene	0.716	0.5017	70	10	20	39-100	
2-Chlorophenol	0.716	0.4669	65	7	20	38-100	
2,4-Dichlorophenol	0.716	0.4978	70	8	20	40-100	
2,4-Dimethylphenol	0.716	0.4546	64	11	20	38-100	
2,4-Dinitrophenol	1.43	0.6500	45	12	23	36-103	
2,4-Dinitrotoluene	0.716	0.6584	92	11	21	42-110	
2,6-Dinitrotoluene	0.716	0.6175	86	9	20	43-105	
2-Methylnaphthalene	0.716	0.4866	68	10	21	39-100	
2-Methylphenol	0.716	0.5014	70	8	20	38-100	
Methylphenol, 3 & 4	0.716	0.5340	75	8	20	40-100	
2-Nitroaniline	0.716	0.6513	91	11	23	33-118	
3-Nitroaniline	0.716	0.5564	78	12	20	42-105	
4-Nitroaniline	0.716	0.5669	79	9	20	33-115	
2-Nitrophenol	0.716	0.5280	74	10	22	40-103	
4-Nitrophenol	1.43	1.154	81	12	20	26-133	
2,2'-oxybis[1-chloropropane]	0.716	0.4758	66	7	20	23-104	
2,3,4,6-Tetrachlorophenol	0.716	0.5856	82	12	25	41-100	
2,4,5-Trichlorophenol	0.716	0.5850	82	10	22	42-100	
2,4,6-Trichlorophenol	0.716	0.5742	80	10	25	41-103	
4-Chloro-3-methylphenol	0.716	0.6064	85	10	20	40-104	
4-Chlorophenyl phenyl ether	0.716	0.5537	77	9	22	43-100	
4,6-Dinitro-2-methylphenol	1.43	1.012	71	10	20	45-102	
Acenaphthene	0.716	0.5187	72	10	20	39-100	
Acenaphthylene	0.716	0.5150	71	11	20	42-100	
Acetophenone	0.716	0.5056	68	8	20	31-100	
Anthracene	0.716	0.5344	74	10	20	43-100	
Atrazine	0.716	0.3956	55	7	20	21-108	
Benzaldehyde	0.716	0.4511	62	10	20	10-133	
Benzo[a]anthracene	0.716	0.5818	79	8	20	43-100	
Benzo[b]fluoranthene	0.716	0.4814	64	7	20	40-100	
Benzo[k]fluoranthene	0.716	0.4538	62	10	20	44-100	
Benzo[g,h,i]perylene	0.716	0.5850	79	9	20	41-102	
Benzo[a]pyrene	0.716	0.4914	67	8	20	43-100	
Bis(2-chloroethoxy)methane	0.716	0.4518	63	9	20	39-100	
Bis(2-chloroethyl)ether	0.716	0.4156	58	7	20	36-100	
Bis(2-ethylhexyl) phthalate	0.716	0.6854	91	5	20	43-106	
4-Bromophenyl phenyl ether	0.716	0.5498	77	8	20	44-100	
Butyl benzyl phthalate	0.716	0.5625	78	7	20	42-108	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: N11250026.D

Lab ID: 180-61122-1 MSD Client ID: BGSB22-(0.0-0.5)-161122-S MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Caprolactam	0.716	0.06227 J	9	15	20	37-112	F1
Carbazole	0.716	0.5358	75	8	20	42-100	
Dibenz(a,h)anthracene	0.716	0.6075	84	7	26	40-104	
Dibenzofuran	0.716	0.5018	70	10	23	42-100	
Di-n-butyl phthalate	0.716	0.6024	84	9	20	44-105	
Di-n-octyl phthalate	0.716	0.5547	78	9	20	41-103	
Diethyl phthalate	0.716	0.5718	80	10	20	41-101	
Dimethyl phthalate	0.716	0.5798	81	11	23	44-100	
Fluoranthene	0.716	0.5794	78	9	20	41-104	
Fluorene	0.716	0.5305	74	9	21	41-100	
Hexachlorobenzene	0.716	0.5173	72	7	21	43-100	
Hexachlorobutadiene	0.716	0.4141	58	9	20	35-100	
Hexachlorocyclopentadiene	0.716	0.1470	21	17	30	32-102	F1
Hexachloroethane	0.716	0.3547	50	9	20	35-100	
Indeno[1,2,3-cd]pyrene	0.716	0.5814	80	9	25	41-104	
Isophorone	0.716	0.4732	66	9	20	36-102	
Naphthalene	0.716	0.4518	63	8	20	38-100	
Nitrobenzene	0.716	0.4481	63	10	20	34-100	
N-Nitrosodiphenylamine	0.716	0.5084	71	8	20	41-100	
N-Nitrosodi-n-propylamine	0.716	0.5289	74	7	20	37-100	
Pentachlorophenol	1.43	1.023	71	13	20	34-102	
Phenanthrene	0.716	0.5003	69	9	20	41-100	
Phenol	0.716	0.4412	62	8	20	36-100	
Pyrene	0.716	0.4467	60	8	21	42-100	
3,3'-Dichlorobenzidine	0.716	0.1628	23	12	21	30-103	F1

Column to be used to flag recovery and RPD values

FORM III 8270D LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab File ID: N11250005.D Lab Sample ID: MB 180-195373/1-A

Matrix: Solid Date Extracted: 11/25/2016 02:15

Instrument ID: CH733 Date Analyzed: 11/25/2016 10:08

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 180-195373/2-A	N11250006.D	11/25/2016 10:35
BGSB22-(0.0-0.5)-161122-S	180-61122-1	N11250024.D	11/25/2016 18:33
BGSB22-(0.0-0.5)-161122-S MS	180-61122-1 MS	N11250025.D	11/25/2016 18:59
BGSB22-(0.0-0.5)-161122-S MSD	180-61122-1 MSD	N11250026.D	11/25/2016 19:26
BGSB22-(1-2)-161122-S	180-61122-2	N11250027.D	11/25/2016 19:53
BGSB10-(0.0-0.5)-161122-S	180-61122-3	N11250028.D	11/25/2016 20:19
BGSB10-(1-2)-161122-S	180-61122-4	N11250029.D	11/25/2016 20:46

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab File ID: N09300002.D DFTPP Injection Date: 09/30/2016

Instrument ID: CH733 DFTPP Injection Time: 07:04

Analysis Batch No.: 189702

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	33.5	
68	Less than 2.0 % of mass 69	0.7	(1.6) 1
69	Mass 69 relative abundance	42.1	
70	Less than 2.0 % of mass 69	0.2	(0.6) 1
127	40.0 - 60.0 % of mass 198	48.6	
197	Less than 1.0 % of mass 198	0.5	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.8	
275	10.0 - 30.0 % of mass 198	27.8	
365	Greater than 1.0 % of mass 198	4.4	
441	Present but less than mass 443	7.7	(75.1) 3
442	Greater than 40.0 % of mass 198	52.8	
443	17.0 - 23.0 % of mass 442	10.3	(19.5) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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 180-189702/3	N09300003.D	09/30/2016	07:20
	IC 180-189702/4	N09300004.D	09/30/2016	07:47
	IC 180-189702/5	N09300005.D	09/30/2016	08:14
	ICIS 180-189702/6	N09300006.D	09/30/2016	08:40
	IC 180-189702/7	N09300007.D	09/30/2016	09:07
	IC 180-189702/8	N09300008.D	09/30/2016	09:34
	IC 180-189702/9	N09300009.D	09/30/2016	10:28
	IC 180-189702/10	N09300010.D	09/30/2016	11:22

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab File ID: N11250002.D DFTPP Injection Date: 11/25/2016

Instrument ID: CH733 DFTPP Injection Time: 09:00

Analysis Batch No.: 195402

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	34.6	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	41.6	
70	Less than 2.0 % of mass 69	0.2	(0.5) 1
127	40.0 - 60.0 % of mass 198	43.2	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.8	
275	10.0 - 30.0 % of mass 198	27.9	
365	Greater than 1.0 % of mass 198	2.9	
441	Present but less than mass 443	10.3	(87.4) 3
442	Greater than 40.0 % of mass 198	60.3	
443	17.0 - 23.0 % of mass 442	11.8	(19.6) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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 180-195402/3	N11250003.D	11/25/2016	09:15
	MB 180-195373/1-A	N11250005.D	11/25/2016	10:08
	LCS 180-195373/2-A	N11250006.D	11/25/2016	10:35
BGSB22-(0.0-0.5)-161122-S	180-61122-1	N11250024.D	11/25/2016	18:33
BGSB22-(0.0-0.5)-161122-S MS	180-61122-1 MS	N11250025.D	11/25/2016	18:59
BGSB22-(0.0-0.5)-161122-S MSD	180-61122-1 MSD	N11250026.D	11/25/2016	19:26
BGSB22-(1-2)-161122-S	180-61122-2	N11250027.D	11/25/2016	19:53
BGSB10-(0.0-0.5)-161122-S	180-61122-3	N11250028.D	11/25/2016	20:19
BGSB10-(1-2)-161122-S	180-61122-4	N11250029.D	11/25/2016	20:46

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Sample No.: CCVIS 180-195402/3 Date Analyzed: 11/25/2016 09:15

Instrument ID: CH733 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): N11250003.D Heated Purge: (Y/N) N

Calibration ID: 33041

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		108565	6.31	389041	7.55	232300	9.18
UPPER LIMIT		217130	6.81	778082	8.05	464600	9.68
LOWER LIMIT		54283	5.81	194521	7.05	116150	8.68
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-195373/1-A		114688	6.30	423185	7.54	254638	9.18
LCS 180-195373/2-A		107610	6.30	356604	7.54	217380	9.18
180-61122-1	BGSB22-(0.0-0.5) -161122-S	100651	6.30	392388	7.55	234517	9.18
180-61122-1 MS	BGSB22-(0.0-0.5) -161122-S MS	102926	6.31	380361	7.55	223787	9.19
180-61122-1 MSD	BGSB22-(0.0-0.5) -161122-S MSD	98439	6.31	356688	7.55	208996	9.19
180-61122-2	BGSB22-(1-2)-161122-S	105406	6.31	396013	7.55	244919	9.19
180-61122-3	BGSB10-(0.0-0.5) -161122-S	108700	6.30	407042	7.54	253941	9.18
180-61122-4	BGSB10-(1-2)-161122-S	103580	6.31	392694	7.55	243490	9.19

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

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 8270D LL

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Sample No.: CCVIS 180-195402/3 Date Analyzed: 11/25/2016 09:15

Instrument ID: CH733 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): N11250003.D Heated Purge: (Y/N) N

Calibration ID: 33041

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		389565	10.56	453148	14.12	383387	17.07
UPPER LIMIT		779130	11.06	906296	14.62	766774	17.57
LOWER LIMIT		194783	10.06	226574	13.62	191694	16.57
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-195373/1-A		447278	10.55	504280	14.12	441320	17.07
LCS 180-195373/2-A		370317	10.55	451229	14.12	394727	17.07
180-61122-1	BGSB22-(0.0-0.5) -161122-S	404105	10.56	487691	14.14	506459	17.10
180-61122-1 MS	BGSB22-(0.0-0.5) -161122-S MS	384681	10.57	489073	14.14	507240	17.10
180-61122-1 MSD	BGSB22-(0.0-0.5) -161122-S MSD	365004	10.57	471815	14.14	488068	17.10
180-61122-2	BGSB22-(1-2)-161122-S	417915	10.57	531727	14.14	528986	17.10
180-61122-3	BGSB10-(0.0-0.5) -161122-S	445996	10.56	541756	14.13	548193	17.09
180-61122-4	BGSB10-(1-2)-161122-S	433697	10.57	521107	14.14	547826	17.10

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

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 8270D LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(0.0-0.5)-161122-S | Lab Sample ID: 180-61122-1

Matrix: Solid | Lab File ID: N11250024.D

Analysis Method: 8270D LL | Date Collected: 11/22/2016 09:35

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.1(g) | Date Analyzed: 11/25/2016 18:33

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.00322	U	0.0357	0.00322
123-91-1	1,4-Dioxane	0.00413	U	0.0721	0.00413
90-12-0	1-Methylnaphthalene	0.000769	U	0.00724	0.000769
95-94-3	1,2,4,5-Tetrachlorobenzene	0.00273	U	0.0357	0.00273
91-58-7	2-Chloronaphthalene	0.000752	U	0.00724	0.000752
95-57-8	2-Chlorophenol	0.00295	U	0.0357	0.00295
120-83-2	2,4-Dichlorophenol	0.000723	U	0.00724	0.000723
105-67-9	2,4-Dimethylphenol	0.00564	U	0.0357	0.00564
51-28-5	2,4-Dinitrophenol	0.0429	U	0.184	0.0429
121-14-2	2,4-Dinitrotoluene	0.00291	U	0.0357	0.00291
606-20-2	2,6-Dinitrotoluene	0.00372	U	0.0357	0.00372
91-57-6	2-Methylnaphthalene	0.00137	J	0.00724	0.000648
95-48-7	2-Methylphenol	0.00252	U	0.0357	0.00252
106-44-5	Methylphenol, 3 & 4	0.00353	U	0.0357	0.00353
88-74-4	2-Nitroaniline	0.0161	U	0.184	0.0161
99-09-2	3-Nitroaniline	0.0148	U	0.184	0.0148
100-01-6	4-Nitroaniline	0.0146	U	0.184	0.0146
88-75-5	2-Nitrophenol	0.00397	U	0.0357	0.00397
100-02-7	4-Nitrophenol	0.0131	U	0.184	0.0131
108-60-1	2,2'-oxybis[1-chloropropane]	0.000778	U	0.00724	0.000778
58-90-2	2,3,4,6-Tetrachlorophenol	0.00232	U	0.0357	0.00232
95-95-4	2,4,5-Trichlorophenol	0.00385	U	0.0357	0.00385
88-06-2	2,4,6-Trichlorophenol	0.00540	U	0.0357	0.00540
59-50-7	4-Chloro-3-methylphenol	0.00332	U	0.0357	0.00332
7005-72-3	4-Chlorophenyl phenyl ether	0.00401	U	0.0357	0.00401
534-52-1	4,6-Dinitro-2-methylphenol	0.0145	U	0.184	0.0145
83-32-9	Acenaphthene	0.000692	U	0.00724	0.000692
208-96-8	Acenaphthylene	0.00396	J	0.00724	0.000826
98-86-2	Acetophenone	0.0169	J	0.0357	0.00296
120-12-7	Anthracene	0.00362	J	0.00724	0.000705
1912-24-9	Atrazine	0.00351	U	0.0357	0.00351
100-52-7	Benzaldehyde	0.00751	J	0.0357	0.00540
56-55-3	Benzo[a]anthracene	0.0140		0.00724	0.000903
205-99-2	Benzo[b]fluoranthene	0.0202		0.00724	0.00113

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(0.0-0.5)-161122-S | Lab Sample ID: 180-61122-1

Matrix: Solid | Lab File ID: N11250024.D

Analysis Method: 8270D LL | Date Collected: 11/22/2016 09:35

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.1(g) | Date Analyzed: 11/25/2016 18:33

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	0.00857		0.00724	0.00146
191-24-2	Benzo[g,h,i]perylene	0.0165		0.00724	0.000717
50-32-8	Benzo[a]pyrene	0.0132		0.00724	0.000721
111-91-1	Bis(2-chloroethoxy)methane	0.00237	U	0.0357	0.00237
111-44-4	Bis(2-chloroethyl)ether	0.000967	U	0.00724	0.000967
117-81-7	Bis(2-ethylhexyl) phthalate	0.0310	J	0.0721	0.00582
101-55-3	4-Bromophenyl phenyl ether	0.00314	U	0.0357	0.00314
85-68-7	Butyl benzyl phthalate	0.00591	J	0.0357	0.00493
105-60-2	Caprolactam	0.0272	U F1	0.184	0.0272
86-74-8	Carbazole	0.00176	J	0.00724	0.000664
53-70-3	Dibenz(a,h)anthracene	0.00336	J	0.00724	0.000802
132-64-9	Dibenzofuran	0.00355	U	0.0357	0.00355
84-74-2	Di-n-butyl phthalate	0.00485	J	0.0357	0.00452
117-84-0	Di-n-octyl phthalate	0.00380	U	0.0357	0.00380
84-66-2	Diethyl phthalate	0.00394	U	0.0357	0.00394
131-11-3	Dimethyl phthalate	0.00393	U	0.0357	0.00393
206-44-0	Fluoranthene	0.0179		0.00724	0.000771
86-73-7	Fluorene	0.000950	U	0.00724	0.000950
118-74-1	Hexachlorobenzene	0.000768	U	0.00724	0.000768
87-68-3	Hexachlorobutadiene	0.000807	U	0.00724	0.000807
77-47-4	Hexachlorocyclopentadiene	0.00389	U F1	0.0357	0.00389
67-72-1	Hexachloroethane	0.00259	U	0.0357	0.00259
193-39-5	Indeno[1,2,3-cd]pyrene	0.0118		0.00724	0.000743
78-59-1	Isophorone	0.00272	U	0.0357	0.00272
91-20-3	Naphthalene	0.000621	U	0.00724	0.000621
98-95-3	Nitrobenzene	0.00300	U	0.0721	0.00300
86-30-6	N-Nitrosodiphenylamine	0.00334	U	0.0357	0.00334
621-64-7	N-Nitrosodi-n-propylamine	0.000845	U	0.00724	0.000845
87-86-5	Pentachlorophenol	0.00322	U	0.0357	0.00322
85-01-8	Phenanthrene	0.00554	J	0.00724	0.00115
108-95-2	Phenol	0.000852	U	0.0357	0.000852
129-00-0	Pyrene	0.0168		0.00724	0.000729
91-94-1	3,3'-Dichlorobenzidine	0.00381	U F1	0.0357	0.00381

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(0.0-0.5)-161122-S | Lab Sample ID: 180-61122-1

Matrix: Solid | Lab File ID: N11250024.D

Analysis Method: 8270D LL | Date Collected: 11/22/2016 09:35

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.1(g) | Date Analyzed: 11/25/2016 18:33

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	62		42-100
367-12-4	2-Fluorophenol (Surr)	57		21-107
118-79-6	2,4,6-Tribromophenol (Surr)	75		20-134
4165-60-0	Nitrobenzene-d5 (Surr)	61		35-109
4165-62-2	Phenol-d5 (Surr)	61		29-105
1718-51-0	Terphenyl-d14 (Surr)	64		36-113

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(1-2)-161122-S | Lab Sample ID: 180-61122-2

Matrix: Solid | Lab File ID: N11250027.D

Analysis Method: 8270D LL | Date Collected: 11/22/2016 09:40

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.2(g) | Date Analyzed: 11/25/2016 19:53

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 19.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.00366	U	0.0406	0.00366
123-91-1	1,4-Dioxane	0.00470	U	0.0820	0.00470
90-12-0	1-Methylnaphthalene	0.000875	U	0.00824	0.000875
95-94-3	1,2,4,5-Tetrachlorobenzene	0.00311	U	0.0406	0.00311
91-58-7	2-Chloronaphthalene	0.000856	U	0.00824	0.000856
95-57-8	2-Chlorophenol	0.00335	U	0.0406	0.00335
120-83-2	2,4-Dichlorophenol	0.000823	U	0.00824	0.000823
105-67-9	2,4-Dimethylphenol	0.00641	U	0.0406	0.00641
51-28-5	2,4-Dinitrophenol	0.0488	U	0.209	0.0488
121-14-2	2,4-Dinitrotoluene	0.00331	U	0.0406	0.00331
606-20-2	2,6-Dinitrotoluene	0.00423	U	0.0406	0.00423
91-57-6	2-Methylnaphthalene	0.000737	U	0.00824	0.000737
95-48-7	2-Methylphenol	0.00287	U	0.0406	0.00287
106-44-5	Methylphenol, 3 & 4	0.00401	U	0.0406	0.00401
88-74-4	2-Nitroaniline	0.0184	U	0.209	0.0184
99-09-2	3-Nitroaniline	0.0169	U	0.209	0.0169
100-01-6	4-Nitroaniline	0.0166	U	0.209	0.0166
88-75-5	2-Nitrophenol	0.00452	U	0.0406	0.00452
100-02-7	4-Nitrophenol	0.0150	U	0.209	0.0150
108-60-1	2,2'-oxybis[1-chloropropane]	0.000885	U	0.00824	0.000885
58-90-2	2,3,4,6-Tetrachlorophenol	0.00264	U	0.0406	0.00264
95-95-4	2,4,5-Trichlorophenol	0.00438	U	0.0406	0.00438
88-06-2	2,4,6-Trichlorophenol	0.00614	U	0.0406	0.00614
59-50-7	4-Chloro-3-methylphenol	0.00378	U	0.0406	0.00378
7005-72-3	4-Chlorophenyl phenyl ether	0.00456	U	0.0406	0.00456
534-52-1	4,6-Dinitro-2-methylphenol	0.0165	U	0.209	0.0165
83-32-9	Acenaphthene	0.000788	U	0.00824	0.000788
208-96-8	Acenaphthylene	0.000939	U	0.00824	0.000939
98-86-2	Acetophenone	0.00337	U	0.0406	0.00337
120-12-7	Anthracene	0.000802	U	0.00824	0.000802
1912-24-9	Atrazine	0.00399	U	0.0406	0.00399
100-52-7	Benzaldehyde	0.00615	U	0.0406	0.00615
56-55-3	Benzo[a]anthracene	0.00103	U	0.00824	0.00103
205-99-2	Benzo[b]fluoranthene	0.00129	U	0.00824	0.00129

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(1-2)-161122-S | Lab Sample ID: 180-61122-2

Matrix: Solid | Lab File ID: N11250027.D

Analysis Method: 8270D LL | Date Collected: 11/22/2016 09:40

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.2(g) | Date Analyzed: 11/25/2016 19:53

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 19.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	0.00166	U	0.00824	0.00166
191-24-2	Benzo[g,h,i]perylene	0.000816	U	0.00824	0.000816
50-32-8	Benzo[a]pyrene	0.000821	U	0.00824	0.000821
111-91-1	Bis(2-chloroethoxy)methane	0.00270	U	0.0406	0.00270
111-44-4	Bis(2-chloroethyl)ether	0.00110	U	0.00824	0.00110
117-81-7	Bis(2-ethylhexyl) phthalate	0.00663	U	0.0820	0.00663
101-55-3	4-Bromophenyl phenyl ether	0.00357	U	0.0406	0.00357
85-68-7	Butyl benzyl phthalate	0.00560	U	0.0406	0.00560
105-60-2	Caprolactam	0.0310	U	0.209	0.0310
86-74-8	Carbazole	0.000756	U	0.00824	0.000756
53-70-3	Dibenz(a,h)anthracene	0.000912	U	0.00824	0.000912
132-64-9	Dibenzofuran	0.00403	U	0.0406	0.00403
84-74-2	Di-n-butyl phthalate	0.00514	U	0.0406	0.00514
117-84-0	Di-n-octyl phthalate	0.00432	U	0.0406	0.00432
84-66-2	Diethyl phthalate	0.00448	U	0.0406	0.00448
131-11-3	Dimethyl phthalate	0.00447	U	0.0406	0.00447
206-44-0	Fluoranthene	0.000877	U	0.00824	0.000877
86-73-7	Fluorene	0.00108	U	0.00824	0.00108
118-74-1	Hexachlorobenzene	0.000874	U	0.00824	0.000874
87-68-3	Hexachlorobutadiene	0.000918	U	0.00824	0.000918
77-47-4	Hexachlorocyclopentadiene	0.00442	U	0.0406	0.00442
67-72-1	Hexachloroethane	0.00295	U	0.0406	0.00295
193-39-5	Indeno[1,2,3-cd]pyrene	0.000845	U	0.00824	0.000845
78-59-1	Isophorone	0.00309	U	0.0406	0.00309
91-20-3	Naphthalene	0.000707	U	0.00824	0.000707
98-95-3	Nitrobenzene	0.00341	U	0.0820	0.00341
86-30-6	N-Nitrosodiphenylamine	0.00380	U	0.0406	0.00380
621-64-7	N-Nitrosodi-n-propylamine	0.000962	U	0.00824	0.000962
87-86-5	Pentachlorophenol	0.00367	U	0.0406	0.00367
85-01-8	Phenanthrene	0.00130	U	0.00824	0.00130
108-95-2	Phenol	0.000969	U	0.0406	0.000969
129-00-0	Pyrene	0.000829	U	0.00824	0.000829
91-94-1	3,3'-Dichlorobenzidine	0.00434	U	0.0406	0.00434

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(1-2)-161122-S | Lab Sample ID: 180-61122-2

Matrix: Solid | Lab File ID: N11250027.D

Analysis Method: 8270D LL | Date Collected: 11/22/2016 09:40

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.2(g) | Date Analyzed: 11/25/2016 19:53

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 19.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	60		42-100
367-12-4	2-Fluorophenol (Surr)	61		21-107
118-79-6	2,4,6-Tribromophenol (Surr)	76		20-134
4165-60-0	Nitrobenzene-d5 (Surr)	63		35-109
4165-62-2	Phenol-d5 (Surr)	63		29-105
1718-51-0	Terphenyl-d14 (Surr)	62		36-113

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB10-(0.0-0.5)-161122-S | Lab Sample ID: 180-61122-3

Matrix: Solid | Lab File ID: N11250028.D

Analysis Method: 8270D LL | Date Collected: 11/22/2016 15:30

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.2(g) | Date Analyzed: 11/25/2016 20:19

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 9.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.0324	U	0.359	0.0324
123-91-1	1,4-Dioxane	0.0416	U	0.725	0.0416
90-12-0	1-Methylnaphthalene	0.00774	U	0.0728	0.00774
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0275	U	0.359	0.0275
91-58-7	2-Chloronaphthalene	0.00757	U	0.0728	0.00757
95-57-8	2-Chlorophenol	0.0297	U	0.359	0.0297
120-83-2	2,4-Dichlorophenol	0.00728	U	0.0728	0.00728
105-67-9	2,4-Dimethylphenol	0.0567	U	0.359	0.0567
51-28-5	2,4-Dinitrophenol	0.432	U	1.85	0.432
121-14-2	2,4-Dinitrotoluene	0.0293	U	0.359	0.0293
606-20-2	2,6-Dinitrotoluene	0.0374	U	0.359	0.0374
91-57-6	2-Methylnaphthalene	0.00652	U	0.0728	0.00652
95-48-7	2-Methylphenol	0.0253	U	0.359	0.0253
106-44-5	Methylphenol, 3 & 4	0.0355	U	0.359	0.0355
88-74-4	2-Nitroaniline	0.162	U	1.85	0.162
99-09-2	3-Nitroaniline	0.149	U	1.85	0.149
100-01-6	4-Nitroaniline	0.147	U	1.85	0.147
88-75-5	2-Nitrophenol	0.0400	U	0.359	0.0400
100-02-7	4-Nitrophenol	0.132	U	1.85	0.132
108-60-1	2,2'-oxybis[1-chloropropane]	0.00783	U	0.0728	0.00783
58-90-2	2,3,4,6-Tetrachlorophenol	0.0233	U	0.359	0.0233
95-95-4	2,4,5-Trichlorophenol	0.0387	U	0.359	0.0387
88-06-2	2,4,6-Trichlorophenol	0.0543	U	0.359	0.0543
59-50-7	4-Chloro-3-methylphenol	0.0334	U	0.359	0.0334
7005-72-3	4-Chlorophenyl phenyl ether	0.0403	U	0.359	0.0403
534-52-1	4,6-Dinitro-2-methylphenol	0.146	U	1.85	0.146
83-32-9	Acenaphthene	0.0170	J	0.0728	0.00697
208-96-8	Acenaphthylene	0.0222	J	0.0728	0.00831
98-86-2	Acetophenone	0.0298	U	0.359	0.0298
120-12-7	Anthracene	0.0631	J	0.0728	0.00710
1912-24-9	Atrazine	0.0353	U	0.359	0.0353
100-52-7	Benzaldehyde	0.0544	U	0.359	0.0544
56-55-3	Benzo[a]anthracene	0.712		0.0728	0.00909
205-99-2	Benzo[b]fluoranthene	1.22		0.0728	0.0114

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB10-(0.0-0.5)-161122-S | Lab Sample ID: 180-61122-3

Matrix: Solid | Lab File ID: N11250028.D

Analysis Method: 8270D LL | Date Collected: 11/22/2016 15:30

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.2(g) | Date Analyzed: 11/25/2016 20:19

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 9.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	0.424		0.0728	0.0147
191-24-2	Benzo[g,h,i]perylene	0.851		0.0728	0.00722
50-32-8	Benzo[a]pyrene	0.811		0.0728	0.00726
111-91-1	Bis(2-chloroethoxy)methane	0.0239	U	0.359	0.0239
111-44-4	Bis(2-chloroethyl)ether	0.00974	U	0.0728	0.00974
117-81-7	Bis(2-ethylhexyl) phthalate	0.134	J	0.725	0.0586
101-55-3	4-Bromophenyl phenyl ether	0.0316	U	0.359	0.0316
85-68-7	Butyl benzyl phthalate	0.0496	U	0.359	0.0496
105-60-2	Caprolactam	0.274	U	1.85	0.274
86-74-8	Carbazole	0.0664	J	0.0728	0.00668
53-70-3	Dibenz(a,h)anthracene	0.206		0.0728	0.00807
132-64-9	Dibenzofuran	0.0357	U	0.359	0.0357
84-74-2	Di-n-butyl phthalate	0.0454	U	0.359	0.0454
117-84-0	Di-n-octyl phthalate	0.0382	U	0.359	0.0382
84-66-2	Diethyl phthalate	0.0396	U	0.359	0.0396
131-11-3	Dimethyl phthalate	0.0395	U	0.359	0.0395
206-44-0	Fluoranthene	1.54		0.0728	0.00776
86-73-7	Fluorene	0.00956	U	0.0728	0.00956
118-74-1	Hexachlorobenzene	0.00773	U	0.0728	0.00773
87-68-3	Hexachlorobutadiene	0.00812	U	0.0728	0.00812
77-47-4	Hexachlorocyclopentadiene	0.0391	U	0.359	0.0391
67-72-1	Hexachloroethane	0.0261	U	0.359	0.0261
193-39-5	Indeno[1,2,3-cd]pyrene	0.710		0.0728	0.00747
78-59-1	Isophorone	0.0273	U	0.359	0.0273
91-20-3	Naphthalene	0.00625	U	0.0728	0.00625
98-95-3	Nitrobenzene	0.0302	U	0.725	0.0302
86-30-6	N-Nitrosodiphenylamine	0.0336	U	0.359	0.0336
621-64-7	N-Nitrosodi-n-propylamine	0.00851	U	0.0728	0.00851
87-86-5	Pentachlorophenol	0.0324	U	0.359	0.0324
85-01-8	Phenanthrene	0.375		0.0728	0.0115
108-95-2	Phenol	0.00857	U	0.359	0.00857
129-00-0	Pyrene	1.09		0.0728	0.00733
91-94-1	3,3'-Dichlorobenzidine	0.0383	U	0.359	0.0383

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB10-(0.0-0.5)-161122-S | Lab Sample ID: 180-61122-3

Matrix: Solid | Lab File ID: N11250028.D

Analysis Method: 8270D LL | Date Collected: 11/22/2016 15:30

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.2(g) | Date Analyzed: 11/25/2016 20:19

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 9.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	73		42-100
367-12-4	2-Fluorophenol (Surr)	53		21-107
118-79-6	2,4,6-Tribromophenol (Surr)	94		20-134
4165-60-0	Nitrobenzene-d5 (Surr)	65		35-109
4165-62-2	Phenol-d5 (Surr)	69		29-105
1718-51-0	Terphenyl-d14 (Surr)	83		36-113

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB10-(1-2)-161122-S | Lab Sample ID: 180-61122-4

Matrix: Solid | Lab File ID: N11250029.D

Analysis Method: 8270D LL | Date Collected: 11/22/2016 15:35

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.0(g) | Date Analyzed: 11/25/2016 20:46

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 5

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 9.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.0164	U	0.182	0.0164
123-91-1	1,4-Dioxane	0.0211	U	0.367	0.0211
90-12-0	1-Methylnaphthalene	0.00392	U	0.0369	0.00392
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0139	U	0.182	0.0139
91-58-7	2-Chloronaphthalene	0.00383	U	0.0369	0.00383
95-57-8	2-Chlorophenol	0.0150	U	0.182	0.0150
120-83-2	2,4-Dichlorophenol	0.00368	U	0.0369	0.00368
105-67-9	2,4-Dimethylphenol	0.0287	U	0.182	0.0287
51-28-5	2,4-Dinitrophenol	0.219	U	0.936	0.219
121-14-2	2,4-Dinitrotoluene	0.0148	U	0.182	0.0148
606-20-2	2,6-Dinitrotoluene	0.0189	U	0.182	0.0189
91-57-6	2-Methylnaphthalene	0.00638	J	0.0369	0.00330
95-48-7	2-Methylphenol	0.0128	U	0.182	0.0128
106-44-5	Methylphenol, 3 & 4	0.0180	U	0.182	0.0180
88-74-4	2-Nitroaniline	0.0822	U	0.936	0.0822
99-09-2	3-Nitroaniline	0.0756	U	0.936	0.0756
100-01-6	4-Nitroaniline	0.0744	U	0.936	0.0744
88-75-5	2-Nitrophenol	0.0202	U	0.182	0.0202
100-02-7	4-Nitrophenol	0.0670	U	0.936	0.0670
108-60-1	2,2'-oxybis[1-chloropropane]	0.00396	U	0.0369	0.00396
58-90-2	2,3,4,6-Tetrachlorophenol	0.0118	U	0.182	0.0118
95-95-4	2,4,5-Trichlorophenol	0.0196	U	0.182	0.0196
88-06-2	2,4,6-Trichlorophenol	0.0275	U	0.182	0.0275
59-50-7	4-Chloro-3-methylphenol	0.0169	U	0.182	0.0169
7005-72-3	4-Chlorophenyl phenyl ether	0.0204	U	0.182	0.0204
534-52-1	4,6-Dinitro-2-methylphenol	0.0738	U	0.936	0.0738
83-32-9	Acenaphthene	0.00775	J	0.0369	0.00353
208-96-8	Acenaphthylene	0.0147	J	0.0369	0.00421
98-86-2	Acetophenone	0.0151	U	0.182	0.0151
120-12-7	Anthracene	0.0383		0.0369	0.00359
1912-24-9	Atrazine	0.0179	U	0.182	0.0179
100-52-7	Benzaldehyde	0.0275	U	0.182	0.0275
56-55-3	Benzo[a]anthracene	0.299		0.0369	0.00460
205-99-2	Benzo[b]fluoranthene	0.449		0.0369	0.00577

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB10-(1-2)-161122-S | Lab Sample ID: 180-61122-4

Matrix: Solid | Lab File ID: N11250029.D

Analysis Method: 8270D LL | Date Collected: 11/22/2016 15:35

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.0(g) | Date Analyzed: 11/25/2016 20:46

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 5

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 9.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	0.195		0.0369	0.00742
191-24-2	Benzo[g,h,i]perylene	0.312		0.0369	0.00365
50-32-8	Benzo[a]pyrene	0.319		0.0369	0.00367
111-91-1	Bis(2-chloroethoxy)methane	0.0121	U	0.182	0.0121
111-44-4	Bis(2-chloroethyl)ether	0.00493	U	0.0369	0.00493
117-81-7	Bis(2-ethylhexyl) phthalate	0.118	J	0.367	0.0297
101-55-3	4-Bromophenyl phenyl ether	0.0160	U	0.182	0.0160
85-68-7	Butyl benzyl phthalate	0.0473	J	0.182	0.0251
105-60-2	Caprolactam	0.139	U	0.936	0.139
86-74-8	Carbazole	0.0244	J	0.0369	0.00338
53-70-3	Dibenz(a,h)anthracene	0.0783		0.0369	0.00408
132-64-9	Dibenzofuran	0.0181	U	0.182	0.0181
84-74-2	Di-n-butyl phthalate	0.0230	U	0.182	0.0230
117-84-0	Di-n-octyl phthalate	0.0193	U	0.182	0.0193
84-66-2	Diethyl phthalate	0.0201	U	0.182	0.0201
131-11-3	Dimethyl phthalate	0.0200	U	0.182	0.0200
206-44-0	Fluoranthene	0.600		0.0369	0.00393
86-73-7	Fluorene	0.00484	U	0.0369	0.00484
118-74-1	Hexachlorobenzene	0.00391	U	0.0369	0.00391
87-68-3	Hexachlorobutadiene	0.00411	U	0.0369	0.00411
77-47-4	Hexachlorocyclopentadiene	0.0198	U	0.182	0.0198
67-72-1	Hexachloroethane	0.0132	U	0.182	0.0132
193-39-5	Indeno[1,2,3-cd]pyrene	0.268		0.0369	0.00378
78-59-1	Isophorone	0.0138	U	0.182	0.0138
91-20-3	Naphthalene	0.00317	U	0.0369	0.00317
98-95-3	Nitrobenzene	0.0153	U	0.367	0.0153
86-30-6	N-Nitrosodiphenylamine	0.0170	U	0.182	0.0170
621-64-7	N-Nitrosodi-n-propylamine	0.00431	U	0.0369	0.00431
87-86-5	Pentachlorophenol	0.0164	U	0.182	0.0164
85-01-8	Phenanthrene	0.173		0.0369	0.00584
108-95-2	Phenol	0.00434	U	0.182	0.00434
129-00-0	Pyrene	0.417		0.0369	0.00371
91-94-1	3,3'-Dichlorobenzidine	0.0194	U	0.182	0.0194

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB10-(1-2)-161122-S | Lab Sample ID: 180-61122-4

Matrix: Solid | Lab File ID: N11250029.D

Analysis Method: 8270D LL | Date Collected: 11/22/2016 15:35

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.0(g) | Date Analyzed: 11/25/2016 20:46

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 5

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 9.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	68		42-100
367-12-4	2-Fluorophenol (Surr)	59		21-107
118-79-6	2,4,6-Tribromophenol (Surr)	84		20-134
4165-60-0	Nitrobenzene-d5 (Surr)	69		35-109
4165-62-2	Phenol-d5 (Surr)	66		29-105
1718-51-0	Terphenyl-d14 (Surr)	71		36-113

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189702

SDG No.:

Instrument ID: CH733 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2016 07:20 Calibration End Date: 09/30/2016 11:22 Calibration ID: 33041

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-189702/3	N09300003.D
Level 2	IC 180-189702/4	N09300004.D
Level 3	IC 180-189702/5	N09300005.D
Level 4	ICIS 180-189702/6	N09300006.D
Level 5	IC 180-189702/7	N09300007.D
Level 6	IC 180-189702/8	N09300008.D
Level 7	IC 180-189702/9	N09300009.D
Level 8	IC 180-189702/10	N09300010.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.4630 0.4197	0.4722 0.4409	0.4643 0.4447	0.4602	0.4505	Ave		0.4519			0.0100	3.7		20.0			
N-Nitrosodimethylamine	0.4440 0.5989	0.5562 0.6312	0.5800 0.6339	0.6174	0.6414	Ave		0.5879			0.0100	11.1		20.0			
Pyridine	+++++ 1.1069	1.0589 1.1442	1.0957 1.1357	1.1700	1.2040	Ave		1.1308			0.0100	4.3		20.0			
Methyl methanesulfonate	0.7442 0.7722	0.8365 0.7998	0.8477 0.7769	0.8278	0.8511	Ave		0.8070			0.0100	4.9		20.0			
Benzaldehyde	0.8823 0.9017	0.8529 0.7696	0.9022 0.6755	0.9116	1.1034	Ave		0.8749			0.0100	14.1		20.0			
Phenol	1.6391 1.5218	1.6701 1.5179	1.7093 1.4773	1.6730	1.6821	Ave		1.6113			0.8000	5.6		20.0			
Aniline	1.6796 1.7372	1.7752 1.6992	1.8443 1.6575	1.8692	1.9032	Ave		1.7707			0.0100	5.2		20.0			
Bis(2-chloroethyl)ether	1.2250 1.1222	1.2803 1.0837	1.2855 1.0639	1.2257	1.2443	Ave		1.1913			0.7000	7.4		20.0			
2-Chlorophenol	1.1932 1.1794	1.2653 1.1587	1.2718 1.1547	1.2638	1.2895	Ave		1.2221			0.8000	4.6		20.0			
n-Decane	1.0462 0.8967	1.0104 0.8821	0.9949 0.8774	0.9857	0.9846	Ave		0.9598				6.7		20.0			
1,3-Dichlorobenzene	1.6096 1.3858	1.6439 1.3722	1.5883 1.3639	1.5575	1.5387	Ave		1.5075			0.0100	7.6		20.0			
1,4-Dichlorobenzene	1.6957 1.4023	1.6059 1.3859	1.6032 1.3598	1.5642	1.5644	Ave		1.5227			0.0100	8.1		20.0			
Benzyl alcohol	0.5999 0.6813	0.6644 0.6639	0.7063 0.6592	0.7161	0.7547	Ave		0.6807			0.0100	6.8		20.0			
1,2-Dichlorobenzene	1.5658 1.2905	1.5352 1.2554	1.5044 1.2321	1.4654	1.4417	Ave		1.4113			0.0100	9.4		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189702

SDG No.:

Instrument ID: CH733 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2016 07:20 Calibration End Date: 09/30/2016 11:22 Calibration ID: 33041

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Methylphenol	1.0377 0.9945	1.0989 0.9525	1.1109 0.9272	1.0932	1.1100	Ave		1.0406			0.7000	7.1		20.0			
Indene	2.2414 1.9110	2.1657 1.8899	2.1818 1.8345	2.1179	2.1305	Ave		2.0591			0.0100	7.6		20.0			
2,2'-oxybis[1-chloropropane]	1.1794 0.8949	1.1013 0.8366	1.0569 0.8195	1.0252	1.0239	Ave		0.9922			0.0100	13.0		20.0			
N-Nitrosopyrrolidine	+++++ 0.4346	0.3433 0.4202	0.4091 0.4087	0.4419	0.4806	Ave		0.4198			0.0100	10.0		20.0			
Acetophenone	1.8767 1.5071	1.8298 1.4304	1.8354 1.3782	1.7433	1.7430	Ave		1.6680			0.0100	11.9		20.0			
N-Nitrosodi-n-propylamine	0.7412 0.7826	0.8914 0.7414	0.9275 0.7000	0.9055	0.9207	Ave		0.8263			0.5000	11.4		20.0			
Methylphenol, 3 & 4	1.0909 0.9842	1.1393 0.9359	1.1608 0.9094	1.1161	1.1256	Ave		1.0578			0.6000	9.4		20.0			
Hexachloroethane	0.5745 0.5632	0.6345 0.5491	0.6469 0.5384	0.6342	0.6318	Ave		0.5966			0.3000	7.5		20.0			
Nitrobenzene	0.2909 0.3687	0.3845 0.3718	0.4072 0.3727	0.4271	0.4262	Ave		0.3811			0.2000	11.4		20.0			
Isophorone	0.5642 0.6059	0.6301 0.6095	0.6625 0.6086	0.6724	0.7024	Ave		0.6320			0.4000	7.0		20.0			
2-Nitrophenol	+++++ 0.1714	0.1323 0.1724	0.1555 0.1732	0.1755	0.1896	Ave		0.1671			0.1000	10.9		20.0			
2,4-Dimethylphenol	0.3189 0.3371	0.3581 0.3335	0.3683 0.3326	0.3756	0.3827	Ave		0.3508			0.2000	6.7		20.0			
Benzoic acid	+++++ 0.1516	0.1012 0.1558	0.0871 0.1588	0.1140	0.1530	Lin1	-0.197	0.1585			0.0100				0.9970		0.9900
Bis(2-chloroethoxy)methane	0.4143 0.3615	0.4043 0.3583	0.4107 0.3574	0.4036	0.4118	Ave		0.3902			0.3000	6.7		20.0			
2,4-Dichlorophenol	0.2554 0.2826	0.2997 0.2864	0.3150 0.2825	0.3204	0.3239	Ave		0.2957			0.2000	7.9		20.0			
1,2,4-Trichlorobenzene	0.4052 0.3494	0.3954 0.3576	0.4071 0.3606	0.3987	0.3997	Ave		0.3842			0.0100	6.2		20.0			
Naphthalene	1.0806 0.9019	1.0401 0.9061	1.0465 0.9145	1.0319	1.0305	Ave		0.9940			0.7000	7.4		20.0			
4-Chloroaniline	0.3672 0.3721	0.3886 0.3678	0.4080 0.3722	0.4183	0.4226	Ave		0.3896			0.0100	6.0		20.0			
2,6-Dichlorophenol	0.2808 0.2732	0.2996 0.2744	0.3099 0.2770	0.3171	0.3171	Ave		0.2936			0.0100	6.6		20.0			
Hexachlorobutadiene	0.2669 0.2336	0.2559 0.2432	0.2621 0.2471	0.2674	0.2670	Ave		0.2554			0.0100	5.0		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189702

SDG No.:

Instrument ID: CH733 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2016 07:20 Calibration End Date: 09/30/2016 11:22 Calibration ID: 33041

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Caprolactam	+++++ 0.0814	0.0517 0.0798	0.0673 0.0819	0.0792	0.0890	Ave		0.0758			0.0100	16.4		20.0			
4-Chloro-3-methylphenol	0.2174 0.2698	0.2722 0.2664	0.2805 0.2711	0.2919	0.3038	Ave		0.2716			0.2000	9.3		20.0			
2-Methylnaphthalene	0.6735 0.6258	0.7010 0.6383	0.7202 0.6440	0.7049	0.7148	Ave		0.6778			0.4000	5.5		20.0			
1-Methylnaphthalene	0.6690 0.5813	0.6660 0.5796	0.6738 0.5850	0.6675	0.6549	Ave		0.6346			0.0100	6.9		20.0			
Hexachlorocyclopentadiene	+++++ 0.4190	0.3069 0.4598	0.3268 0.4778	0.3975	0.4336	Ave		0.4030			0.0500	16.0		20.0			
1,2,4,5-Tetrachlorobenzene	0.6723 0.6048	0.6520 0.6243	0.6444 0.6384	0.6614	0.6635	Ave		0.6451			0.0100	3.5		20.0			
2,4,6-Trichlorophenol	0.3018 0.3574	0.3395 0.3687	0.3696 0.3772	0.3835	0.4024	Ave		0.3625			0.2000	8.5		20.0			
2,4,5-Trichlorophenol	0.2769 0.3694	0.3767 0.3711	0.3861 0.3695	0.3975	0.4084	Ave		0.3695			0.2000	10.8		20.0			
1,1'-Biphenyl	1.5098 1.2722	1.4691 1.2967	1.4445 1.2853	1.4359	1.4489	Ave		1.3953			0.0100	6.8		20.0			
2-Chloronaphthalene	1.1644 1.0002	1.1741 1.0224	1.1417 1.0162	1.1547	1.1489	Ave		1.1028			0.8000	6.8		20.0			
2-Nitroaniline	0.1131 0.2797	0.1768 0.2810	0.2284 0.2859	0.2730	0.3057	Lin1	-0.096	0.2858			0.0100				0.9980		0.9900
Dimethyl phthalate	1.1313 1.1056	1.2283 1.1257	1.2452 1.1162	1.2631	1.2897	Ave		1.1881			0.0100	6.4		20.0			
1,3-Dinitrobenzene	+++++ 0.1784	0.0938 0.1831	0.1349 0.1835	0.1677	0.1972	Lin2	-0.195	0.1892			0.0100				0.9970		0.9900
2,6-Dinitrotoluene	+++++ 0.2540	0.1963 0.2556	0.2454 0.2519	0.2702	0.2929	Ave		0.2523			0.2000	11.6		20.0			
Acenaphthylene	1.3580 1.4595	1.5570 1.4920	1.6255 1.4861	1.6512	1.6927	Ave		1.5402			0.9000	7.3		20.0			
3-Nitroaniline	+++++ 0.2586	0.1963 0.2553	0.2398 0.2579	0.2734	0.2933	Ave		0.2535			0.0100	11.9		20.0			
2,4-Dinitrophenol	+++++ 0.1742	0.0806 0.1846	0.0948 0.1906	0.1331	0.1756	Lin1	-0.605	0.1889			0.0100				0.9970		0.9900
Acenaphthene	1.1766 0.9831	1.1288 1.0093	1.1106 1.0165	1.1159	1.1409	Ave		1.0852			0.9000	6.6		20.0			
4-Nitrophenol	+++++ 0.1834	0.1392 0.1894	0.1594 0.1862	0.1818	0.2006	Ave		0.1771			0.0100	11.8		20.0			
2,4-Dinitrotoluene	+++++ 0.3330	0.2536 0.3377	0.3131 0.3323	0.3508	0.3792	Ave		0.3285			0.2000	11.8		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189702

SDG No.:

Instrument ID: CH733 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2016 07:20 Calibration End Date: 09/30/2016 11:22 Calibration ID: 33041

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dibenzofuran	1.6984 1.4508	1.6856 1.4774	1.6759 1.4854	1.6675	1.6934	Ave		1.6043			0.8000	6.9		20.0			
2,3,5,6-Tetrachlorophenol	0.2300 0.3284	0.3045 0.3366	0.3247 0.3363	0.3447	0.3694	Ave		0.3218			0.0100	12.9		20.0			
2,3,4,6-Tetrachlorophenol	0.2357 0.3229	0.3359 0.3250	0.3473 0.3309	0.3447	0.3647	Ave		0.3259			0.0100	11.9		20.0			
2-Naphthylamine	0.8031 0.9413	0.9896 0.9181	1.0638 0.9147	1.1030	1.1423	Ave		0.9845			0.0100	11.5		20.0			
Diethyl phthalate	1.3201 1.1095	1.2301 1.1224	1.2485 1.1328	1.2224	1.2822	Ave		1.2085			0.0100	6.5		20.0			
Hexadecane	0.3131 0.3351	0.3630 0.3409	0.3805 0.3350	0.3815	0.3899	Ave		0.3549				7.8		20.0			
4-Chlorophenyl phenyl ether	0.6660 0.5898	0.6781 0.6054	0.6731 0.6008	0.6674	0.6771	Ave		0.6447			0.4000	6.0		20.0			
4-Nitroaniline	+++++ 0.2685	0.1935 0.2744	0.2375 0.2793	0.2711	0.2936	Ave		0.2597			0.0100	13.0		20.0			
Fluorene	1.3002 1.1173	1.2982 1.1416	1.2919 1.1404	1.2680	1.3003	Ave		1.2322			0.9000	6.7		20.0			
4,6-Dinitro-2-methylphenol	+++++ 0.1239	0.0673 0.1296	0.0915 0.1312	0.1179	0.1308	Lin2	-0.268	0.1314			0.0100				0.9990		0.9900
N-Nitrosodiphenylamine	0.4898 0.4749	0.5220 0.4744	0.5449 0.4740	0.5386	0.5368	Ave		0.5069			0.0100	6.2		20.0			
1,2-Diphenylhydrazine(as Azobenzene)	0.6227 0.7220	0.7735 0.7294	0.7973 0.7175	0.8191	0.8120	Ave		0.7492			0.0100	8.7		20.0			
4-Bromophenyl phenyl ether	0.2260 0.2213	0.2333 0.2223	0.2379 0.2299	0.2430	0.2442	Ave		0.2322			0.1000	3.8		20.0			
Hexachlorobenzene	0.2467 0.2207	0.2308 0.2253	0.2503 0.2278	0.2446	0.2449	Ave		0.2364			0.1000	4.8		20.0			
Atrazine	+++++ 0.2013	0.1770 0.2005	0.2034 0.1991	0.2196	0.2274	Ave		0.2040			0.0100	7.9		20.0			
Pentachlorophenol	0.1171 0.1593	0.1380 0.1723	0.1296 0.1816	0.1516	0.1650	Ave		0.1518			0.0500	14.6		20.0			
n-Octadecane	1.0565 1.2192	1.2355 1.1816	1.3446 1.0984	1.3380	1.4078	Ave		1.2352				10.0		20.0			
Phenanthrene	1.2923 1.0175	1.1213 1.0092	1.1283 1.0426	1.1384	1.1254	Ave		1.1094			0.7000	8.2		20.0			
Anthracene	1.0411 1.0133	1.0776 1.0195	1.1142 1.0217	1.1331	1.1468	Ave		1.0709			0.7000	5.1		20.0			
Carbazole	0.8716 0.8719	0.9076 0.8757	0.9719 0.9018	0.9757	0.9908	Ave		0.9209			0.0100	5.5		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189702

SDG No.:

Instrument ID: CH733 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2016 07:20 Calibration End Date: 09/30/2016 11:22 Calibration ID: 33041

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Di-n-butyl phthalate	+++++ 1.0650	0.8837 1.1085	0.9988 1.1182	1.0836	1.1583	Ave		1.0595			0.0100	8.7		20.0			
Fluoranthene	1.1065 1.1715	1.0951 1.2131	1.1600 1.2522	1.2343	1.2637	Ave		1.1871			0.6000	5.4		20.0			
Benzidine	+++++ 0.4637	0.2073 0.4248	0.2613 0.3987	0.3587	0.5188	Qua	-1.050	0.5684	-0.001986		0.0100				0.9980		0.9900
Pyrene	1.2759 1.1492	1.2377 1.1122	1.2365 1.0979	1.2617	1.3117	Ave		1.2104			0.6000	6.6		20.0			
Butyl benzyl phthalate	+++++ 0.4353	0.2902 0.4464	0.3247 0.4498	0.3882	0.4566	Ave		0.3987			0.0100	16.8		20.0			
3,3'-Dichlorobenzidine	+++++ 0.3874	0.2108 0.4046	0.2387 0.4137	0.3170	0.3991	Lin2	-0.433	0.3978			0.0100				0.9910		0.9900
Bis(2-ethylhexyl) phthalate	+++++ 0.5869	0.3809 0.6099	0.4351 0.6190	0.5330	0.6140	Ave		0.5398			0.0100	17.8		20.0			
Benzo[a]anthracene	1.0932 0.9597	1.0451 0.9689	1.0636 0.9656	1.0773	1.0874	Ave		1.0326			0.8000	5.6		20.0			
Chrysene	1.1530 0.8940	1.0695 0.9035	1.0328 0.9070	1.0254	1.0378	Ave		1.0029			0.7000	9.3		20.0			
Di-n-octyl phthalate	1.1153 1.0083	0.8719 1.0983	0.6547 1.1197	0.8230	0.9963	Ave		0.9610			0.0100	17.2		20.0			
7,12-Dimethylbenz(a)anthracene	0.4852 0.6340	0.5455 0.6866	0.5600 0.6953	0.6196	0.6816	Ave		0.6135			0.0100	12.5		20.0			
Benzo[b]fluoranthene	1.1188 1.2311	1.0757 1.3748	1.1702 1.3659	1.2414	1.3366	Ave		1.2393			0.7000	9.1		20.0			
Benzo[k]fluoranthene	1.2759 1.1757	1.3874 1.1814	1.3514 1.1958	1.4218	1.3473	Ave		1.2921			0.7000	7.6		20.0			
Benzo[e]pyrene	1.1021 1.1091	1.0702 1.1842	1.1087 1.1769	1.1927	1.2281	Ave		1.1465			0.0100	4.9		20.0			
Benzo[a]pyrene	1.0612 1.0760	1.2034 1.1295	1.0599 1.1268	1.1923	1.2284	Ave		1.1347			0.7000	5.9		20.0			
Indeno[1,2,3-cd]pyrene	0.8637 1.3145	0.9412 1.4687	1.1136 1.5100	1.2505	1.3365	Ave		1.2248			0.5000	19.2		20.0			
Dibenz(a,h)anthracene	0.6593 1.0208	0.7848 1.1484	0.9234 1.1786	0.9882	1.0774	Ave		0.9726			0.4000	18.3		20.0			
Benzo[g,h,i]perylene	0.8510 1.0448	0.9361 1.1548	1.0177 1.1615	1.0729	1.1285	Ave		1.0459			0.5000	10.4		20.0			
2-Fluorophenol (Surr)	1.0211 1.1394	1.1452 1.1661	1.1762 1.1588	1.1896	1.2313	Ave		1.1535				5.3		20.0			
Phenol-d5 (Surr)	1.3034 1.4078	1.4427 1.4002	1.4591 1.3842	1.4837	1.5359	Ave		1.4271				4.9		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189702

SDG No.:

Instrument ID: CH733 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2016 07:20 Calibration End Date: 09/30/2016 11:22 Calibration ID: 33041

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Nitrobenzene-d5 (Surr)	0.2662 0.3772	0.3417 0.3784	0.3795 0.3833	0.4022	0.4243	Ave		0.3691				12.9		20.0			
2-Fluorobiphenyl	1.4425 1.2619	1.4568 1.2870	1.4227 1.2816	1.4173	1.4477	Ave		1.3772				6.1		20.0			
2,4,6-Tribromophenol (Surr)	+++++ 0.0888	0.0806 0.0899	0.0885 0.0912	0.0922	0.0972	Ave		0.0898			0.0100	5.6		20.0			
Terphenyl-d14 (Surr)	0.7580 0.7695	0.8199 0.7573	0.8189 0.7466	0.8310	0.8781	Ave		0.7974				5.8		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189702

SDG No.:

Instrument ID: CH733 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2016 07:20 Calibration End Date: 09/30/2016 11:22 Calibration ID: 33041

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-189702/3	N09300003.D
Level 2	IC 180-189702/4	N09300004.D
Level 3	IC 180-189702/5	N09300005.D
Level 4	ICIS 180-189702/6	N09300006.D
Level 5	IC 180-189702/7	N09300007.D
Level 6	IC 180-189702/8	N09300008.D
Level 7	IC 180-189702/9	N09300009.D
Level 8	IC 180-189702/10	N09300010.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	3492 259244	16556 379976	31857 495296	71727	135094	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosodimethylamine	DCBd 4	Ave	3349 369955	19499 544050	39799 705958	96244	192364	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Pyridine	DCBd 4	Ave	+++++ 683777	37125 986157	75183 1264810	182377	361081	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Methyl methanesulfonate	DCBd 4	Ave	5613 477050	29325 689364	58166 865208	129041	255248	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzaldehyde	DCBd 4	Ave	6655 557013	29901 663313	61906 752306	142094	330893	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenol	DCBd 4	Ave	12363 940057	58550 1308273	117282 1645234	260776	504450	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Aniline	DCBd 4	Ave	12669 1073131	62238 1464577	126542 1845966	291361	570743	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Bis(2-chloroethyl)ether	DCBd 4	Ave	9240 693242	44886 934064	88203 1184842	191064	373145	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Chlorophenol	DCBd 4	Ave	9000 728541	44359 998689	87266 1286034	197000	386701	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
n-Decane	DCBd 4	Ave	7891 553913	35425 760315	68262 977209	153643	295272	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	12141 856098	57632 1182671	108982 1518998	242783	461456	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,4-Dichlorobenzene	DCBd 4	Ave	12790 866278	56300 1194541	110004 1514436	243817	469155	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzyl alcohol	DCBd 4	Ave	4525 420877	23293 572246	48461 734125	111618	226338	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2-Dichlorobenzene	DCBd 4	Ave	11810 797217	53821 1082016	103222 1372199	228421	432357	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Methylphenol	DCBd 4	Ave	7827 614339	38525 820947	76226 1032579	170407	332880	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189702

SDG No.:

Instrument ID: CH733 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2016 07:20 Calibration End Date: 09/30/2016 11:22 Calibration ID: 33041

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Indene	DCBd 4	Ave	16906 1180497	75926 1628902	149704 2043138	330133	638917	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave	8896 552821	38611 721035	72516 912657	159810	307046	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosopyrrolidine	DCBd 4	Ave	+++++ 268451	12037 362157	28072 455211	68885	144134	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Acetophenone	DCBd 4	Ave	14155 931030	64152 1232879	125934 1534933	271746	522707	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosodi-n-propylamine	DCBd 4	Ave	5591 483470	31252 638996	63637 779560	141139	276108	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Methylphenol, 3 & 4	DCBd 4	Ave	8228 607998	39943 806673	79646 1012819	173966	337567	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachloroethane	DCBd 4	Ave	4333 347929	22244 473315	44383 599628	98857	189477	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Nitrobenzene	NPT	Ave	8063 780722	49190 1046201	99969 1305632	228929	433239	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Isophorone	NPT	Ave	15638 1283121	80610 1715135	162634 2131891	360391	714011	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Nitrophenol	NPT	Ave	+++++ 362914	16924 485199	38169 606795	94089	192726	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dimethylphenol	NPT	Ave	8838 713832	45812 938383	90419 1165032	201310	389000	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzoic acid	NPT	Lin1	+++++ 321055	12954 438327	21386 556121	61128	155508	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Bis(2-chloroethoxy)methane	NPT	Ave	11482 765443	51730 1008114	100822 1251900	216312	418609	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dichlorophenol	NPT	Ave	7079 598468	38349 805780	77326 989494	171711	329210	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2,4-Trichlorobenzene	NPT	Ave	11231 739839	50586 1006252	99940 1263130	213684	406242	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Naphthalene	NPT	Ave	29952 1909879	133066 2549548	256917 3203278	553092	1047514	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chloroaniline	NPT	Ave	10179 788060	49712 1035072	100152 1303646	224219	429559	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,6-Dichlorophenol	NPT	Ave	7784 578525	38332 772032	76076 970162	169966	322345	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorobutadiene	NPT	Ave	7398 494782	32735 684382	64336 865690	143304	271378	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Caprolactam	NPT	Ave	+++++ 172427	6619 224545	16532 286988	42444	90515	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chloro-3-methylphenol	NPT	Ave	6026 571250	34828 749521	68851 949650	156437	308810	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189702

SDG No.:

Instrument ID: CH733 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2016 07:20 Calibration End Date: 09/30/2016 11:22 Calibration ID: 33041

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-Methylnaphthalene	NPT	Ave	18668 1325155	89693 1796088	176808 2255849	377840	726557	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1-Methylnaphthalene	NPT	Ave	18542 1230976	85206 1630907	165408 2049187	357747	665689	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorocyclopentadiene	ANT	Ave	+++++ 533035	24168 766880	50753 995890	130781	269155	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2,4,5-Tetrachlorobenzene	ANT	Ave	11343 769463	51349 1041137	100100 1330683	217577	411842	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,6-Trichlorophenol	ANT	Ave	5092 454637	26740 614932	57409 786369	126163	249779	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,5-Trichlorophenol	ANT	Ave	4672 469991	29667 618924	59969 770321	130785	253513	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,1'-Biphenyl	ANT	Ave	25472 1618453	115706 2162490	224372 2679153	472402	899336	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Chloronaphthalene	ANT	Ave	19645 1272491	92469 1705029	177334 2118319	379892	713112	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Nitroaniline	ANT	Lin1	1909 355885	13928 468647	35470 595917	89815	189751	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dimethyl phthalate	ANT	Ave	19087 1406502	96740 1877302	193416 2326683	415527	800539	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,3-Dinitrobenzene	ANT	Lin2	+++++ 226921	7386 305433	20950 382590	55164	122374	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,6-Dinitrotoluene	ANT	Ave	+++++ 323139	15457 426246	38110 525103	88885	181816	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Acenaphthylene	ANT	Ave	22911 1856750	122626 2488305	252477 3097719	543228	1050634	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
3-Nitroaniline	ANT	Ave	+++++ 328949	15458 425737	37254 537689	89960	182050	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dinitrophenol	ANT	Lin1	+++++ 443230	12694 615833	29452 794537	87565	218022	+++++ 80.0	4.00 120	8.00 160	20.0	40.0
Acenaphthene	ANT	Ave	19851 1250654	88907 1683304	172510 2118972	367099	708171	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Nitrophenol	ANT	Ave	+++++ 466564	21921 631823	49510 776098	119601	249003	+++++ 80.0	4.00 120	8.00 160	20.0	40.0
2,4-Dinitrotoluene	ANT	Ave	+++++ 423594	19976 563149	48636 692767	115398	235388	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dibenzofuran	ANT	Ave	28654 1845731	132758 2463880	260308 3096393	548579	1051098	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,3,5,6-Tetrachlorophenol	ANT	Ave	3880 417780	23983 561398	50437 701021	113414	229289	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,3,4,6-Tetrachlorophenol	ANT	Ave	3976 410810	26453 541937	53948 689837	113402	226356	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189702

SDG No.:

Instrument ID: CH733 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2016 07:20 Calibration End Date: 09/30/2016 11:22 Calibration ID: 33041

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-Naphthylamine	ANT	Ave	13550 1197500	77942 1531075	165230 1906672	362883	708997	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Diethyl phthalate	ANT	Ave	22272 1411488	96883 1871857	193920 2361332	402146	795878	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexadecane	NPT	Ave	8679 709686	46440 959273	93410 1173365	204456	396352	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chlorophenyl phenyl ether	ANT	Ave	11236 750351	53410 1009595	104544 1252427	219560	420252	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Nitroaniline	ANT	Ave	+++++ 341647	15243 457691	36896 582229	89187	182265	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Fluorene	ANT	Ave	21936 1421434	102243 1903871	200673 2377225	417145	807107	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4,6-Dinitro-2-methylphenol	PHN	Lin2	+++++ 517442	18000 712710	47642 898854	128423	274408	+++++ 80.0	4.00 120	8.00 160	20.0	40.0
N-Nitrosodiphenylamine	PHN	Ave	14053 991345	69848 1304330	141890 1623322	293327	563167	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2-Diphenylhydrazine(as Azobenzene)	PHN	Ave	17867 1507127	103505 2005338	207600 2456815	446097	851855	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Bromophenyl phenyl ether	PHN	Ave	6485 461877	31213 611201	61944 787099	132320	256223	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorobenzene	PHN	Ave	7079 460670	30888 619320	65172 780105	133188	256956	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Atrazine	PHN	Ave	+++++ 420163	23681 551327	52954 681784	119600	238537	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Pentachlorophenol	PHN	Ave	6720 665010	36942 947190	67511 1243748	165085	346247	0.760 80.0	4.00 120	8.00 160	20.0	40.0
n-Octadecane	DCBd 4	Ave	7969 753142	43316 1018396	92260 1223258	208561	422190	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenanthrene	PHN	Ave	37076 2124003	150049 2774762	293794 3570297	619983	1180586	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Anthracene	PHN	Ave	29870 2115212	144197 2803204	290128 3498850	617109	1203043	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Carbazole	PHN	Ave	25006 1820054	121451 2407703	253073 3087986	531350	1039434	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Di-n-butyl phthalate	PHN	Ave	+++++ 2223194	118252 3047666	260078 3829235	590158	1215107	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Fluoranthene	PHN	Ave	31747 2445536	146541 3335442	302071 4287835	672203	1325653	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzidine	CRY	Qua	+++++ 964085	25737 1239445	67702 1516376	195339	526403	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Pyrene	CRY	Ave	33103 2389556	153679 3244755	320357 4175533	686996	1330896	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189702

SDG No.:

Instrument ID: CH733 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2016 07:20 Calibration End Date: 09/30/2016 11:22 Calibration ID: 33041

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Butyl benzyl phthalate	CRY	Ave	+++++ 905072	36036 1302455	84111 1710836	211359	463283	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
3,3'-Dichlorobenzidine	CRY	Lin2	+++++ 805430	26180 1180377	61850 1573544	172613	404883	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	+++++ 1220275	47301 1779328	112726 2354350	290236	622992	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[a]anthracene	CRY	Ave	28361 1995501	129765 2826610	275554 3672470	586591	1103241	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Chrysene	CRY	Ave	29914 1858874	132803 2635876	267567 3449679	558351	1052916	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Di-n-octyl phthalate	PRY	Ave	23552 1785637	87925 2672547	133635 3608159	359325	836590	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
7,12-Dimethylbenz(a)anthracene	PRY	Ave	10245 1122812	55011 1670691	114289 2240431	270514	572313	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	23626 2180124	108475 3345152	238833 4401553	541995	1122311	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	26942 2081994	139904 2874559	275825 3853347	620767	1131299	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[e]pyrene	PRY	Ave	23272 1964113	107921 2881544	226294 3792402	520745	1031186	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[a]pyrene	PRY	Ave	22409 1905460	121351 2748388	216328 3630999	520584	1031475	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	18239 2327956	94909 3573790	227286 4865816	545988	1122235	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	13922 1807790	79141 2794400	188475 3797938	431445	904691	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	17970 1850245	94401 2809902	207721 3742786	468418	947603	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Fluorophenol (Surr)	DCBd 4	Ave	7702 703872	40150 1005088	80706 1290615	185434	369264	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenol-d5 (Surr)	DCBd 4	Ave	9831 869688	50578 1206883	100116 1541568	231271	460606	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Nitrobenzene-d5 (Surr)	NPT	Ave	7379 798753	43713 1064904	93167 1342754	215598	431261	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Fluorobiphenyl	ANT	Ave	24337 1605462	114738 2146462	220981 2671556	466268	898606	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,6-Tribromophenol (Surr)	PHN	Ave	+++++ 185399	10780 247051	23037 312269	50190	101990	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Terphenyl-d14 (Surr)	CRY	Ave	19666 1600003	101807 2209456	212158 2839483	452494	890921	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189702

SDG No.:

Instrument ID: CH733 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2016 07:20 Calibration End Date: 09/30/2016 11:22 Calibration ID: 33041

Curve Type Legend:
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189702

SDG No.:

Instrument ID: CH733 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2016 07:20 Calibration End Date: 09/30/2016 11:22 Calibration ID: 33041

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-189702/3	N09300003.D
Level 2	IC 180-189702/4	N09300004.D
Level 3	IC 180-189702/5	N09300005.D
Level 4	ICIS 180-189702/6	N09300006.D
Level 5	IC 180-189702/7	N09300007.D
Level 6	IC 180-189702/8	N09300008.D
Level 7	IC 180-189702/9	N09300009.D
Level 8	IC 180-189702/10	N09300010.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Benzoic acid	+++++	26.1	-13.9	-15.6	2.7	-1.3		40	40	40	40	40
	0.3	1.7					40	40				
2-Nitroaniline	27.6	-21.4	-11.7	-1.1	8.6	-1.3	40	40	40	40	40	40
	-1.1	0.4					40	40				
1,3-Dinitrobenzene	+++++	1.0	-3.0	-1.1	9.4	-3.1		40	40	40	40	40
	-1.5	-1.7					40	40				
2,4-Dinitrophenol	+++++	22.7	-9.8	-13.5	1.0	-3.8		40	40	40	40	40
	0.4	2.9					40	40				
4,6-Dinitro-2-methylphenol	+++++	2.1	-4.9	-0.1	4.6	-3.2		40	40	40	40	40
	0.3	1.1					40	40				
Benzidine	+++++	30.0	-6.6	-15.9	8.8	0.2		70	70	70	70	70
	-2.1	0.9					70	70				
3,3'-Dichlorobenzidine	+++++	7.4	-12.8	-9.4	5.8	0.1		30	30	30	30	30
	3.5	5.4					30	30				

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCVIS 180-195402/3 Calibration Date: 11/25/2016 09:15

Instrument ID: CH733 Calib Start Date: 09/30/2016 07:20

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 09/30/2016 11:22

Lab File ID: N11250003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4519	0.4716	0.0100	5.22	5.00	4.3	20.0
N-Nitrosodimethylamine	Ave	0.5879	0.6947	0.0100	5.91	5.00	18.2	20.0
Pyridine	Ave	1.131	1.254	0.0100	5.54	5.00	10.9	20.0
Methyl methanesulfonate	Ave	0.8070	0.7484	0.0100	4.64	5.00	-7.3	20.0
Benzaldehyde	Ave	0.8749	0.7856	0.0100	4.49	5.00	-10.2	20.0
Phenol	Ave	1.611	1.557	0.8000	4.83	5.00	-3.4	20.0
Aniline	Ave	1.771	1.722	0.0100	4.86	5.00	-2.8	20.0
Bis(2-chloroethyl)ether	Ave	1.191	1.114	0.7000	4.68	5.00	-6.5	20.0
2-Chlorophenol	Ave	1.222	1.233	0.8000	5.05	5.00	0.9	20.0
n-Decane	Ave	0.9598	0.9651		5.03	5.00	0.6	20.0
1,3-Dichlorobenzene	Ave	1.508	1.440	0.0100	4.78	5.00	-4.5	20.0
1,4-Dichlorobenzene	Ave	1.523	1.443	0.0100	4.74	5.00	-5.3	20.0
Benzyl alcohol	Ave	0.6807	0.7167	0.0100	5.26	5.00	5.3	20.0
1,2-Dichlorobenzene	Ave	1.411	1.337	0.0100	4.74	5.00	-5.3	20.0
2-Methylphenol	Ave	1.041	1.045	0.7000	5.02	5.00	0.5	20.0
Indene	Ave	2.059	2.016	0.0100	4.90	5.00	-2.1	20.0
2,2'-oxybis[1-chloropropane]	Ave	0.9922	1.026	0.0100	5.17	5.00	3.4	20.0
N-Nitrosopyrrolidine	Ave	0.4198	0.4621	0.0100	5.50	5.00	10.1	20.0
Acetophenone	Ave	1.668	1.696	0.0100	5.08	5.00	1.7	20.0
Methylphenol, 3 & 4	Ave	1.058	1.122	0.6000	5.31	5.00	6.1	20.0
N-Nitrosodi-n-propylamine	Ave	0.8263	0.8500	0.5000	5.14	5.00	2.9	20.0
Hexachloroethane	Ave	0.5966	0.5482	0.3000	4.59	5.00	-8.1	20.0
Nitrobenzene	Ave	0.3811	0.3631	0.2000	4.76	5.00	-4.7	20.0
Isophorone	Ave	0.6320	0.5901	0.4000	4.67	5.00	-6.6	20.0
2-Nitrophenol	Ave	0.1671	0.1728	0.1000	5.17	5.00	3.4	20.0
2,4-Dimethylphenol	Ave	0.3508	0.3541	0.2000	5.05	5.00	0.9	20.0
Benzoic acid	Lin1		0.1220	0.0100	4.47	5.00	-10.6	20.0
Bis(2-chloroethoxy)methane	Ave	0.3902	0.3489	0.3000	4.47	5.00	-10.6	20.0
2,4-Dichlorophenol	Ave	0.2957	0.2829	0.2000	4.78	5.00	-4.3	20.0
1,2,4-Trichlorobenzene	Ave	0.3842	0.3469	0.0100	4.51	5.00	-9.7	20.0
Naphthalene	Ave	0.9940	0.9236	0.7000	4.65	5.00	-7.1	20.0
4-Chloroaniline	Ave	0.3896	0.3812	0.0100	4.89	5.00	-2.1	20.0
2,6-Dichlorophenol	Ave	0.2936	0.2801	0.0100	4.77	5.00	-4.6	20.0
Hexachlorobutadiene	Ave	0.2554	0.2269	0.0100	4.44	5.00	-11.1	20.0
Caprolactam	Ave	0.0758	0.0833	0.0100	5.50	5.00	9.9	20.0
4-Chloro-3-methylphenol	Ave	0.2716	0.2990	0.2000	5.51	5.00	10.1	20.0
2-Methylnaphthalene	Ave	0.6778	0.6268	0.4000	4.62	5.00	-7.5	20.0
1-Methylnaphthalene	Ave	0.6346	0.5852	0.0100	4.61	5.00	-7.8	20.0
Hexachlorocyclopentadiene	Ave	0.4030	0.3505	0.0500	4.35	5.00	-13.0	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6451	0.6251	0.0100	4.85	5.00	-3.1	20.0
2,4,6-Trichlorophenol	Ave	0.3625	0.3577	0.2000	4.93	5.00	-1.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCVIS 180-195402/3 Calibration Date: 11/25/2016 09:15

Instrument ID: CH733 Calib Start Date: 09/30/2016 07:20

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 09/30/2016 11:22

Lab File ID: N11250003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4,5-Trichlorophenol	Ave	0.3695	0.3651	0.2000	4.94	5.00	-1.2	20.0
1,1'-Biphenyl	Ave	1.395	1.311	0.0100	4.70	5.00	-6.1	20.0
2-Chloronaphthalene	Ave	1.103	1.032	0.8000	4.68	5.00	-6.4	20.0
2-Nitroaniline	Lin1		0.3105	0.0100	5.60	5.00	12.0	20.0
Dimethyl phthalate	Ave	1.188	1.183	0.0100	4.98	5.00	-0.4	20.0
1,3-Dinitrobenzene	Lin2		0.1859	0.0100	5.43	5.00	8.6	20.0
2,6-Dinitrotoluene	Ave	0.2523	0.2671	0.2000	5.29	5.00	5.8	20.0
Acenaphthylene	Ave	1.540	1.421	0.9000	4.61	5.00	-7.7	20.0
3-Nitroaniline	Ave	0.2535	0.2561	0.0100	5.05	5.00	1.0	20.0
2,4-Dinitrophenol	Lin1		0.1587	0.0100	10.0	10.0	0.0	20.0
Acenaphthene	Ave	1.085	1.008	0.9000	4.65	5.00	-7.1	20.0
4-Nitrophenol	Ave	0.1771	0.1948	0.0100	11.0	10.0	10.0	20.0
2,4-Dinitrotoluene	Ave	0.3285	0.3680	0.2000	5.60	5.00	12.0	20.0
Dibenzofuran	Ave	1.604	1.466	0.8000	4.57	5.00	-8.6	20.0
2,3,5,6-Tetrachlorophenol	Ave	0.3218	0.3269	0.0100	5.08	5.00	1.6	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3259	0.3383	0.0100	5.19	5.00	3.8	20.0
2-Naphthylamine	Ave	0.9845	0.9500	0.0100	4.83	5.00	-3.5	20.0
Diethyl phthalate	Ave	1.208	1.154	0.0100	4.77	5.00	-4.5	20.0
Hexadecane	Ave	0.3549	0.3366		4.74	5.00	-5.2	20.0
4-Chlorophenyl phenyl ether	Ave	0.6447	0.6430	0.4000	4.99	5.00	-0.3	20.0
4-Nitroaniline	Ave	0.2597	0.2668	0.0100	5.14	5.00	2.7	20.0
Fluorene	Ave	1.232	1.154	0.9000	4.68	5.00	-6.4	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1370	0.0100	11.5	10.0	14.5	20.0
N-Nitrosodiphenylamine	Ave	0.5069	0.5122	0.0100	5.05	5.00	1.0	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.7492	0.6568	0.0100	4.38	5.00	-12.3	20.0
4-Bromophenyl phenyl ether	Ave	0.2322	0.2398	0.1000	5.16	5.00	3.3	20.0
Hexachlorobenzene	Ave	0.2364	0.2301	0.1000	4.87	5.00	-2.7	20.0
Atrazine	Ave	0.2040	0.1734	0.0100	4.25	5.00	-15.0	20.0
n-Octadecane	Ave	1.235	1.182		4.79	5.00	-4.3	20.0
Pentachlorophenol	Ave	0.1518	0.1308	0.0500	8.61	10.0	-13.9	20.0
Phenanthrene	Ave	1.109	1.007	0.7000	4.54	5.00	-9.2	20.0
Anthracene	Ave	1.071	1.022	0.7000	4.77	5.00	-4.6	20.0
Carbazole	Ave	0.9209	0.8812	0.0100	4.79	5.00	-4.3	20.0
Di-n-butyl phthalate	Ave	1.059	1.049	0.0100	4.95	5.00	-1.0	20.0
Fluoranthene	Ave	1.187	1.165	0.6000	4.91	5.00	-1.8	20.0
Benzidine	Qua		0.4335	0.0100	4.91	5.00	-1.9	20.0
Pyrene	Ave	1.210	1.015	0.6000	4.19	5.00	-16.2	20.0
Butyl benzyl phthalate	Ave	0.3987	0.3865	0.0100	4.85	5.00	-3.1	20.0
3,3'-Dichlorobenzidine	Lin2		0.3504	0.0100	4.95	5.00	-1.0	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5398	0.5386	0.0100	4.99	5.00	-0.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCVIS 180-195402/3 Calibration Date: 11/25/2016 09:15

Instrument ID: CH733 Calib Start Date: 09/30/2016 07:20

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 09/30/2016 11:22

Lab File ID: N11250003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]anthracene	Ave	1.033	1.028	0.8000	4.98	5.00	-0.5	20.0
Chrysene	Ave	1.003	0.9794	0.7000	4.88	5.00	-2.3	20.0
Di-n-octyl phthalate	Ave	0.9610	0.9688	0.0100	5.04	5.00	0.8	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.6135	0.5612	0.0100	4.57	5.00	-8.5	20.0
Benzo[b]fluoranthene	Ave	1.239	1.176	0.7000	4.74	5.00	-5.1	20.0
Benzo[k]fluoranthene	Ave	1.292	1.151	0.7000	4.46	5.00	-10.9	20.0
Benzo[e]pyrene	Ave	1.146	1.059	0.0100	4.62	5.00	-7.6	20.0
Benzo[a]pyrene	Ave	1.135	1.053	0.7000	4.64	5.00	-7.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.225	1.123	0.5000	4.58	5.00	-8.3	20.0
Dibenz(a,h)anthracene	Ave	0.9726	0.9291	0.4000	4.78	5.00	-4.5	20.0
Benzo[g,h,i]perylene	Ave	1.046	0.9413	0.5000	4.50	5.00	-10.0	20.0
2-Fluorophenol (Surr)	Ave	1.153	1.146		4.97	5.00	-0.7	20.0
Phenol-d5 (Surr)	Ave	1.427	1.418		4.97	5.00	-0.6	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3691	0.3708		5.02	5.00	0.5	20.0
2-Fluorobiphenyl	Ave	1.377	1.251		4.54	5.00	-9.2	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.0898	0.0974	0.0100	5.43	5.00	8.5	20.0
Terphenyl-d14 (Surr)	Ave	0.7974	0.7614		4.77	5.00	-4.5	20.0

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-61122-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 180-195373/1-A
Matrix: Solid
Lab File ID: N11250005.D
Analysis Method: 8270D LL
Date Collected:
Extract. Method: 3541
Date Extracted: 11/25/2016 02:15
Sample wt/vol: 15.0(g)
Date Analyzed: 11/25/2016 10:08
Con. Extract Vol.: 0.5(mL)
Dilution Factor: 1
Injection Volume: 2(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 195402
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.00298	U	0.0330	0.00298
123-91-1	1,4-Dioxane	0.00383	U	0.0667	0.00383
90-12-0	1-Methylnaphthalene	0.000712	U	0.00670	0.000712
95-94-3	1,2,4,5-Tetrachlorobenzene	0.00253	U	0.0330	0.00253
91-58-7	2-Chloronaphthalene	0.000696	U	0.00670	0.000696
95-57-8	2-Chlorophenol	0.00273	U	0.0330	0.00273
120-83-2	2,4-Dichlorophenol	0.000669	U	0.00670	0.000669
105-67-9	2,4-Dimethylphenol	0.00522	U	0.0330	0.00522
51-28-5	2,4-Dinitrophenol	0.0397	U	0.170	0.0397
121-14-2	2,4-Dinitrotoluene	0.00269	U	0.0330	0.00269
606-20-2	2,6-Dinitrotoluene	0.00344	U	0.0330	0.00344
91-57-6	2-Methylnaphthalene	0.000600	U	0.00670	0.000600
95-48-7	2-Methylphenol	0.00233	U	0.0330	0.00233
106-44-5	Methylphenol, 3 & 4	0.00327	U	0.0330	0.00327
88-74-4	2-Nitroaniline	0.0149	U	0.170	0.0149
99-09-2	3-Nitroaniline	0.0137	U	0.170	0.0137
100-01-6	4-Nitroaniline	0.0135	U	0.170	0.0135
88-75-5	2-Nitrophenol	0.00368	U	0.0330	0.00368
100-02-7	4-Nitrophenol	0.0122	U	0.170	0.0122
108-60-1	2,2'-oxybis[1-chloropropane]	0.000720	U	0.00670	0.000720
58-90-2	2,3,4,6-Tetrachlorophenol	0.00214	U	0.0330	0.00214
95-95-4	2,4,5-Trichlorophenol	0.00356	U	0.0330	0.00356
88-06-2	2,4,6-Trichlorophenol	0.00499	U	0.0330	0.00499
59-50-7	4-Chloro-3-methylphenol	0.00307	U	0.0330	0.00307
7005-72-3	4-Chlorophenyl phenyl ether	0.00371	U	0.0330	0.00371
534-52-1	4,6-Dinitro-2-methylphenol	0.0134	U	0.170	0.0134
83-32-9	Acenaphthene	0.000641	U	0.00670	0.000641
208-96-8	Acenaphthylene	0.000764	U	0.00670	0.000764
98-86-2	Acetophenone	0.00274	U	0.0330	0.00274
120-12-7	Anthracene	0.000653	U	0.00670	0.000653
1912-24-9	Atrazine	0.00325	U	0.0330	0.00325
100-52-7	Benzaldehyde	0.00500	U	0.0330	0.00500
56-55-3	Benzo[a]anthracene	0.000836	U	0.00670	0.000836
205-99-2	Benzo[b]fluoranthene	0.00105	U	0.00670	0.00105

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-195373/1-A

Matrix: Solid | Lab File ID: N11250005.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.0(g) | Date Analyzed: 11/25/2016 10:08

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	0.00135	U	0.00670	0.00135
191-24-2	Benzo[g,h,i]perylene	0.000664	U	0.00670	0.000664
50-32-8	Benzo[a]pyrene	0.000668	U	0.00670	0.000668
111-91-1	Bis(2-chloroethoxy)methane	0.00220	U	0.0330	0.00220
111-44-4	Bis(2-chloroethyl)ether	0.000895	U	0.00670	0.000895
117-81-7	Bis(2-ethylhexyl) phthalate	0.00539	U	0.0667	0.00539
101-55-3	4-Bromophenyl phenyl ether	0.00290	U	0.0330	0.00290
85-68-7	Butyl benzyl phthalate	0.00456	U	0.0330	0.00456
105-60-2	Caprolactam	0.0252	U	0.170	0.0252
86-74-8	Carbazole	0.000615	U	0.00670	0.000615
53-70-3	Dibenz(a,h)anthracene	0.000742	U	0.00670	0.000742
132-64-9	Dibenzofuran	0.00328	U	0.0330	0.00328
84-74-2	Di-n-butyl phthalate	0.00418	U	0.0330	0.00418
117-84-0	Di-n-octyl phthalate	0.00352	U	0.0330	0.00352
84-66-2	Diethyl phthalate	0.00364	U	0.0330	0.00364
131-11-3	Dimethyl phthalate	0.00363	U	0.0330	0.00363
206-44-0	Fluoranthene	0.000713	U	0.00670	0.000713
86-73-7	Fluorene	0.000879	U	0.00670	0.000879
118-74-1	Hexachlorobenzene	0.000711	U	0.00670	0.000711
87-68-3	Hexachlorobutadiene	0.000747	U	0.00670	0.000747
77-47-4	Hexachlorocyclopentadiene	0.00360	U	0.0330	0.00360
67-72-1	Hexachloroethane	0.00240	U	0.0330	0.00240
193-39-5	Indeno[1,2,3-cd]pyrene	0.000687	U	0.00670	0.000687
78-59-1	Isophorone	0.00251	U	0.0330	0.00251
91-20-3	Naphthalene	0.000575	U	0.00670	0.000575
98-95-3	Nitrobenzene	0.00278	U	0.0667	0.00278
86-30-6	N-Nitrosodiphenylamine	0.00309	U	0.0330	0.00309
621-64-7	N-Nitrosodi-n-propylamine	0.000782	U	0.00670	0.000782
87-86-5	Pentachlorophenol	0.00298	U	0.0330	0.00298
85-01-8	Phenanthrene	0.00106	U	0.00670	0.00106
108-95-2	Phenol	0.000788	U	0.0330	0.000788
129-00-0	Pyrene	0.000675	U	0.00670	0.000675
91-94-1	3,3'-Dichlorobenzidine	0.00353	U	0.0330	0.00353

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-61122-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 180-195373/1-A
Matrix: Solid
Lab File ID: N11250005.D
Analysis Method: 8270D LL
Date Collected:
Extract. Method: 3541
Date Extracted: 11/25/2016 02:15
Sample wt/vol: 15.0(g)
Date Analyzed: 11/25/2016 10:08
Con. Extract Vol.: 0.5(mL)
Dilution Factor: 1
Injection Volume: 2(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 195402
Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	62		42-100
367-12-4	2-Fluorophenol (Surr)	60		21-107
118-79-6	2,4,6-Tribromophenol (Surr)	76		20-134
4165-60-0	Nitrobenzene-d5 (Surr)	61		35-109
4165-62-2	Phenol-d5 (Surr)	61		29-105
1718-51-0	Terphenyl-d14 (Surr)	76		36-113

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-61122-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 180-195373/2-A
Matrix: Solid
Lab File ID: N11250006.D
Analysis Method: 8270D LL
Date Collected:
Extract. Method: 3541
Date Extracted: 11/25/2016 02:15
Sample wt/vol: 15.0(g)
Date Analyzed: 11/25/2016 10:35
Con. Extract Vol.: 0.5(mL)
Dilution Factor: 1
Injection Volume: 2(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 195402
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.4610		0.0330	0.00298
123-91-1	1,4-Dioxane	0.4336		0.0667	0.00383
90-12-0	1-Methylnaphthalene	0.4603		0.00670	0.000712
95-94-3	1,2,4,5-Tetrachlorobenzene	0.4730		0.0330	0.00253
91-58-7	2-Chloronaphthalene	0.4498		0.00670	0.000696
95-57-8	2-Chlorophenol	0.4554		0.0330	0.00273
120-83-2	2,4-Dichlorophenol	0.4734		0.00670	0.000669
105-67-9	2,4-Dimethylphenol	0.4951		0.0330	0.00522
51-28-5	2,4-Dinitrophenol	1.065		0.170	0.0397
121-14-2	2,4-Dinitrotoluene	0.5605		0.0330	0.00269
606-20-2	2,6-Dinitrotoluene	0.5449		0.0330	0.00344
91-57-6	2-Methylnaphthalene	0.4627		0.00670	0.000600
95-48-7	2-Methylphenol	0.4692		0.0330	0.00233
106-44-5	Methylphenol, 3 & 4	0.4885		0.0330	0.00327
88-74-4	2-Nitroaniline	0.5541		0.170	0.0149
99-09-2	3-Nitroaniline	0.5101		0.170	0.0137
100-01-6	4-Nitroaniline	0.5364		0.170	0.0135
88-75-5	2-Nitrophenol	0.5300		0.0330	0.00368
100-02-7	4-Nitrophenol	1.194		0.170	0.0122
108-60-1	2,2'-oxybis[1-chloropropane]	0.4627		0.00670	0.000720
58-90-2	2,3,4,6-Tetrachlorophenol	0.5129		0.0330	0.00214
95-95-4	2,4,5-Trichlorophenol	0.5017		0.0330	0.00356
88-06-2	2,4,6-Trichlorophenol	0.5025		0.0330	0.00499
59-50-7	4-Chloro-3-methylphenol	0.5495		0.0330	0.00307
7005-72-3	4-Chlorophenyl phenyl ether	0.4971		0.0330	0.00371
534-52-1	4,6-Dinitro-2-methylphenol	1.161		0.170	0.0134
83-32-9	Acenaphthene	0.4620		0.00670	0.000641
208-96-8	Acenaphthylene	0.4546		0.00670	0.000764
98-86-2	Acetophenone	0.4340		0.0330	0.00274
120-12-7	Anthracene	0.4803		0.00670	0.000653
1912-24-9	Atrazine	0.4651		0.0330	0.00325
100-52-7	Benzaldehyde	0.3684		0.0330	0.00500
56-55-3	Benzo[a]anthracene	0.4936		0.00670	0.000836
205-99-2	Benzo[b]fluoranthene	0.4528		0.00670	0.00105

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-195373/2-A

Matrix: Solid | Lab File ID: N11250006.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.0(g) | Date Analyzed: 11/25/2016 10:35

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	0.4431		0.00670	0.00135
191-24-2	Benzo[g,h,i]perylene	0.4664		0.00670	0.000664
50-32-8	Benzo[a]pyrene	0.4694		0.00670	0.000668
111-91-1	Bis(2-chloroethoxy)methane	0.4339		0.0330	0.00220
111-44-4	Bis(2-chloroethyl)ether	0.4214		0.00670	0.000895
117-81-7	Bis(2-ethylhexyl) phthalate	0.5206		0.0667	0.00539
101-55-3	4-Bromophenyl phenyl ether	0.5155		0.0330	0.00290
85-68-7	Butyl benzyl phthalate	0.5038		0.0330	0.00456
105-60-2	Caprolactam	0.5944		0.170	0.0252
86-74-8	Carbazole	0.4813		0.00670	0.000615
53-70-3	Dibenz(a,h)anthracene	0.5138		0.00670	0.000742
132-64-9	Dibenzofuran	0.4488		0.0330	0.00328
84-74-2	Di-n-butyl phthalate	0.5176		0.0330	0.00418
117-84-0	Di-n-octyl phthalate	0.5428		0.0330	0.00352
84-66-2	Diethyl phthalate	0.4924		0.0330	0.00364
131-11-3	Dimethyl phthalate	0.4985		0.0330	0.00363
206-44-0	Fluoranthene	0.5142		0.00670	0.000713
86-73-7	Fluorene	0.4728		0.00670	0.000879
118-74-1	Hexachlorobenzene	0.4908		0.00670	0.000711
87-68-3	Hexachlorobutadiene	0.4307		0.00670	0.000747
77-47-4	Hexachlorocyclopentadiene	0.4544		0.0330	0.00360
67-72-1	Hexachloroethane	0.3899		0.0330	0.00240
193-39-5	Indeno[1,2,3-cd]pyrene	0.4848		0.00670	0.000687
78-59-1	Isophorone	0.4575		0.0330	0.00251
91-20-3	Naphthalene	0.4452		0.00670	0.000575
98-95-3	Nitrobenzene	0.4631		0.0667	0.00278
86-30-6	N-Nitrosodiphenylamine	0.4964		0.0330	0.00309
621-64-7	N-Nitrosodi-n-propylamine	0.4815		0.00670	0.000782
87-86-5	Pentachlorophenol	0.9957		0.0330	0.00298
85-01-8	Phenanthrene	0.4445		0.00670	0.00106
108-95-2	Phenol	0.4512		0.0330	0.000788
129-00-0	Pyrene	0.4162		0.00670	0.000675
91-94-1	3,3'-Dichlorobenzidine	0.4304		0.0330	0.00353

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-61122-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 180-195373/2-A
Matrix: Solid
Lab File ID: N11250006.D
Analysis Method: 8270D LL
Date Collected:
Extract. Method: 3541
Date Extracted: 11/25/2016 02:15
Sample wt/vol: 15.0(g)
Date Analyzed: 11/25/2016 10:35
Con. Extract Vol.: 0.5(mL)
Dilution Factor: 1
Injection Volume: 2(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 195402
Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	68		42-100
367-12-4	2-Fluorophenol (Surr)	71		21-107
118-79-6	2,4,6-Tribromophenol (Surr)	87		20-134
4165-60-0	Nitrobenzene-d5 (Surr)	74		35-109
4165-62-2	Phenol-d5 (Surr)	70		29-105
1718-51-0	Terphenyl-d14 (Surr)	74		36-113

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(0.0-0.5)-161122-S | Lab Sample ID: 180-61122-1 MS

Matrix: Solid | Lab File ID: N11250025.D

Analysis Method: 8270D LL | Date Collected: 11/22/2016 09:35

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.1(g) | Date Analyzed: 11/25/2016 18:59

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.4629		0.0357	0.00322
123-91-1	1,4-Dioxane	0.2815		0.0721	0.00413
90-12-0	1-Methylnaphthalene	0.4384		0.00724	0.000769
95-94-3	1,2,4,5-Tetrachlorobenzene	0.4481		0.0357	0.00273
91-58-7	2-Chloronaphthalene	0.4540		0.00724	0.000752
95-57-8	2-Chlorophenol	0.4333		0.0357	0.00295
120-83-2	2,4-Dichlorophenol	0.4608		0.00724	0.000723
105-67-9	2,4-Dimethylphenol	0.4074		0.0357	0.00564
51-28-5	2,4-Dinitrophenol	0.5790		0.184	0.0429
121-14-2	2,4-Dinitrotoluene	0.5892		0.0357	0.00291
606-20-2	2,6-Dinitrotoluene	0.5662		0.0357	0.00372
91-57-6	2-Methylnaphthalene	0.4409		0.00724	0.000648
95-48-7	2-Methylphenol	0.4623		0.0357	0.00252
106-44-5	Methylphenol, 3 & 4	0.4938		0.0357	0.00353
88-74-4	2-Nitroaniline	0.5845		0.184	0.0161
99-09-2	3-Nitroaniline	0.4917		0.184	0.0148
100-01-6	4-Nitroaniline	0.5175		0.184	0.0146
88-75-5	2-Nitrophenol	0.4789		0.0357	0.00397
100-02-7	4-Nitrophenol	1.024		0.184	0.0131
108-60-1	2,2'-oxybis[1-chloropropane]	0.4441		0.00724	0.000778
58-90-2	2,3,4,6-Tetrachlorophenol	0.5199		0.0357	0.00232
95-95-4	2,4,5-Trichlorophenol	0.5317		0.0357	0.00385
88-06-2	2,4,6-Trichlorophenol	0.5191		0.0357	0.00540
59-50-7	4-Chloro-3-methylphenol	0.5486		0.0357	0.00332
7005-72-3	4-Chlorophenyl phenyl ether	0.5065		0.0357	0.00401
534-52-1	4,6-Dinitro-2-methylphenol	0.9143		0.184	0.0145
83-32-9	Acenaphthene	0.4682		0.00724	0.000692
208-96-8	Acenaphthylene	0.4619		0.00724	0.000826
98-86-2	Acetophenone	0.4677		0.0357	0.00296
120-12-7	Anthracene	0.4840		0.00724	0.000705
1912-24-9	Atrazine	0.3695		0.0357	0.00351
100-52-7	Benzaldehyde	0.4077		0.0357	0.00540
56-55-3	Benzo[a]anthracene	0.5363		0.00724	0.000903
205-99-2	Benzo[b]fluoranthene	0.4487		0.00724	0.00113

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(0.0-0.5)-161122-S | Lab Sample ID: 180-61122-1 MS

Matrix: Solid | Lab File ID: N11250025.D

Analysis Method: 8270D LL | Date Collected: 11/22/2016 09:35

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.1(g) | Date Analyzed: 11/25/2016 18:59

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	0.4090		0.00724	0.00146
191-24-2	Benzo[g,h,i]perylene	0.5336		0.00724	0.000717
50-32-8	Benzo[a]pyrene	0.4528		0.00724	0.000721
111-91-1	Bis(2-chloroethoxy)methane	0.4118		0.0357	0.00237
111-44-4	Bis(2-chloroethyl)ether	0.3864		0.00724	0.000967
117-81-7	Bis(2-ethylhexyl) phthalate	0.6488		0.0721	0.00582
101-55-3	4-Bromophenyl phenyl ether	0.5054		0.0357	0.00314
85-68-7	Butyl benzyl phthalate	0.5228		0.0357	0.00493
105-60-2	Caprolactam	0.05352	J	0.184	0.0272
86-74-8	Carbazole	0.4961		0.00724	0.000664
53-70-3	Dibenz(a,h)anthracene	0.5640		0.00724	0.000802
132-64-9	Dibenzofuran	0.4559		0.0357	0.00355
84-74-2	Di-n-butyl phthalate	0.5481		0.0357	0.00452
117-84-0	Di-n-octyl phthalate	0.5079		0.0357	0.00380
84-66-2	Diethyl phthalate	0.5179		0.0357	0.00394
131-11-3	Dimethyl phthalate	0.5192		0.0357	0.00393
206-44-0	Fluoranthene	0.5278		0.00724	0.000771
86-73-7	Fluorene	0.4841		0.00724	0.000950
118-74-1	Hexachlorobenzene	0.4817		0.00724	0.000768
87-68-3	Hexachlorobutadiene	0.3781		0.00724	0.000807
77-47-4	Hexachlorocyclopentadiene	0.1241		0.0357	0.00389
67-72-1	Hexachloroethane	0.3251		0.0357	0.00259
193-39-5	Indeno[1,2,3-cd]pyrene	0.5310		0.00724	0.000743
78-59-1	Isophorone	0.4313		0.0357	0.00272
91-20-3	Naphthalene	0.4173		0.00724	0.000621
98-95-3	Nitrobenzene	0.4035		0.0721	0.00300
86-30-6	N-Nitrosodiphenylamine	0.4680		0.0357	0.00334
621-64-7	N-Nitrosodi-n-propylamine	0.4940		0.00724	0.000845
87-86-5	Pentachlorophenol	0.8971		0.0357	0.00322
85-01-8	Phenanthrene	0.4587		0.00724	0.00115
108-95-2	Phenol	0.4057		0.0357	0.000852
129-00-0	Pyrene	0.4130		0.00724	0.000729
91-94-1	3,3'-Dichlorobenzidine	0.1450		0.0357	0.00381

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(0.0-0.5)-161122-S | Lab Sample ID: 180-61122-1 MS

Matrix: Solid | Lab File ID: N11250025.D

Analysis Method: 8270D LL | Date Collected: 11/22/2016 09:35

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.1(g) | Date Analyzed: 11/25/2016 18:59

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	61		42-100
367-12-4	2-Fluorophenol (Surr)	52		21-107
118-79-6	2,4,6-Tribromophenol (Surr)	79		20-134
4165-60-0	Nitrobenzene-d5 (Surr)	59		35-109
4165-62-2	Phenol-d5 (Surr)	60		29-105
1718-51-0	Terphenyl-d14 (Surr)	62		36-113

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(0.0-0.5)-161122-S | Lab Sample ID: 180-61122-1 MSD

Matrix: Solid | Lab File ID: N11250026.D

Analysis Method: 8270D LL | Date Collected: 11/22/2016 09:35

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.2(g) | Date Analyzed: 11/25/2016 19:26

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.5114		0.0354	0.00319
123-91-1	1,4-Dioxane	0.3058		0.0716	0.00411
90-12-0	1-Methylnaphthalene	0.4835		0.00719	0.000764
95-94-3	1,2,4,5-Tetrachlorobenzene	0.5022		0.0354	0.00271
91-58-7	2-Chloronaphthalene	0.5017		0.00719	0.000747
95-57-8	2-Chlorophenol	0.4669		0.0354	0.00293
120-83-2	2,4-Dichlorophenol	0.4978		0.00719	0.000718
105-67-9	2,4-Dimethylphenol	0.4546		0.0354	0.00560
51-28-5	2,4-Dinitrophenol	0.6500		0.182	0.0426
121-14-2	2,4-Dinitrotoluene	0.6584		0.0354	0.00289
606-20-2	2,6-Dinitrotoluene	0.6175		0.0354	0.00369
91-57-6	2-Methylnaphthalene	0.4866		0.00719	0.000644
95-48-7	2-Methylphenol	0.5014		0.0354	0.00250
106-44-5	Methylphenol, 3 & 4	0.5340		0.0354	0.00350
88-74-4	2-Nitroaniline	0.6513		0.182	0.0160
99-09-2	3-Nitroaniline	0.5564		0.182	0.0147
100-01-6	4-Nitroaniline	0.5669		0.182	0.0145
88-75-5	2-Nitrophenol	0.5280		0.0354	0.00395
100-02-7	4-Nitrophenol	1.154		0.182	0.0131
108-60-1	2,2'-oxybis[1-chloropropane]	0.4758		0.00719	0.000773
58-90-2	2,3,4,6-Tetrachlorophenol	0.5856		0.0354	0.00230
95-95-4	2,4,5-Trichlorophenol	0.5850		0.0354	0.00382
88-06-2	2,4,6-Trichlorophenol	0.5742		0.0354	0.00536
59-50-7	4-Chloro-3-methylphenol	0.6064		0.0354	0.00330
7005-72-3	4-Chlorophenyl phenyl ether	0.5537		0.0354	0.00398
534-52-1	4,6-Dinitro-2-methylphenol	1.012		0.182	0.0144
83-32-9	Acenaphthene	0.5187		0.00719	0.000688
208-96-8	Acenaphthylene	0.5150		0.00719	0.000820
98-86-2	Acetophenone	0.5056		0.0354	0.00294
120-12-7	Anthracene	0.5344		0.00719	0.000701
1912-24-9	Atrazine	0.3956		0.0354	0.00349
100-52-7	Benzaldehyde	0.4511		0.0354	0.00537
56-55-3	Benzo[a]anthracene	0.5818		0.00719	0.000897
205-99-2	Benzo[b]fluoranthene	0.4814		0.00719	0.00113

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(0.0-0.5)-161122-S | Lab Sample ID: 180-61122-1 MSD

Matrix: Solid | Lab File ID: N11250026.D

Analysis Method: 8270D LL | Date Collected: 11/22/2016 09:35

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.2(g) | Date Analyzed: 11/25/2016 19:26

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
207-08-9	Benzo[k]fluoranthene	0.4538		0.00719	0.00145
191-24-2	Benzo[g,h,i]perylene	0.5850		0.00719	0.000712
50-32-8	Benzo[a]pyrene	0.4914		0.00719	0.000716
111-91-1	Bis(2-chloroethoxy)methane	0.4518		0.0354	0.00236
111-44-4	Bis(2-chloroethyl)ether	0.4156		0.00719	0.000961
117-81-7	Bis(2-ethylhexyl) phthalate	0.6854		0.0716	0.00579
101-55-3	4-Bromophenyl phenyl ether	0.5498		0.0354	0.00312
85-68-7	Butyl benzyl phthalate	0.5625		0.0354	0.00489
105-60-2	Caprolactam	0.06227	J	0.182	0.0270
86-74-8	Carbazole	0.5358		0.00719	0.000660
53-70-3	Dibenz(a,h)anthracene	0.6075		0.00719	0.000797
132-64-9	Dibenzofuran	0.5018		0.0354	0.00352
84-74-2	Di-n-butyl phthalate	0.6024		0.0354	0.00449
117-84-0	Di-n-octyl phthalate	0.5547		0.0354	0.00377
84-66-2	Diethyl phthalate	0.5718		0.0354	0.00391
131-11-3	Dimethyl phthalate	0.5798		0.0354	0.00390
206-44-0	Fluoranthene	0.5794		0.00719	0.000766
86-73-7	Fluorene	0.5305		0.00719	0.000944
118-74-1	Hexachlorobenzene	0.5173		0.00719	0.000763
87-68-3	Hexachlorobutadiene	0.4141		0.00719	0.000801
77-47-4	Hexachlorocyclopentadiene	0.1470		0.0354	0.00386
67-72-1	Hexachloroethane	0.3547		0.0354	0.00257
193-39-5	Indeno[1,2,3-cd]pyrene	0.5814		0.00719	0.000738
78-59-1	Isophorone	0.4732		0.0354	0.00270
91-20-3	Naphthalene	0.4518		0.00719	0.000617
98-95-3	Nitrobenzene	0.4481		0.0716	0.00298
86-30-6	N-Nitrosodiphenylamine	0.5084		0.0354	0.00331
621-64-7	N-Nitrosodi-n-propylamine	0.5289		0.00719	0.000840
87-86-5	Pentachlorophenol	1.023		0.0354	0.00320
85-01-8	Phenanthrene	0.5003		0.00719	0.00114
108-95-2	Phenol	0.4412		0.0354	0.000846
129-00-0	Pyrene	0.4467		0.00719	0.000724
91-94-1	3,3'-Dichlorobenzidine	0.1628		0.0354	0.00379

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(0.0-0.5)-161122-S | Lab Sample ID: 180-61122-1 MSD

Matrix: Solid | Lab File ID: N11250026.D

Analysis Method: 8270D LL | Date Collected: 11/22/2016 09:35

Extract. Method: 3541 | Date Extracted: 11/25/2016 02:15

Sample wt/vol: 15.2(g) | Date Analyzed: 11/25/2016 19:26

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195402 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	67		42-100
367-12-4	2-Fluorophenol (Surr)	56		21-107
118-79-6	2,4,6-Tribromophenol (Surr)	88		20-134
4165-60-0	Nitrobenzene-d5 (Surr)	65		35-109
4165-62-2	Phenol-d5 (Surr)	66		29-105
1718-51-0	Terphenyl-d14 (Surr)	67		36-113

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CH733 Start Date: 09/30/2016 07:04

Analysis Batch Number: 189702 End Date: 09/30/2016 12:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-189702/2		09/30/2016 07:04	1	N09300002.D	Rxi-5SilMS 0.32(mm)
IC 180-189702/3		09/30/2016 07:20	1	N09300003.D	Rxi-5SilMS 0.32(mm)
IC 180-189702/4		09/30/2016 07:47	1	N09300004.D	Rxi-5SilMS 0.32(mm)
IC 180-189702/5		09/30/2016 08:14	1	N09300005.D	Rxi-5SilMS 0.32(mm)
ICIS 180-189702/6		09/30/2016 08:40	1	N09300006.D	Rxi-5SilMS 0.32(mm)
IC 180-189702/7		09/30/2016 09:07	1	N09300007.D	Rxi-5SilMS 0.32(mm)
IC 180-189702/8		09/30/2016 09:34	1	N09300008.D	Rxi-5SilMS 0.32(mm)
IC 180-189702/9		09/30/2016 10:28	1	N09300009.D	Rxi-5SilMS 0.32(mm)
IC 180-189702/10		09/30/2016 11:22	1	N09300010.D	Rxi-5SilMS 0.32(mm)
ICV 180-189702/11		09/30/2016 11:49	1		Rxi-5SilMS 0.32(mm)
ICV 180-189702/12		09/30/2016 12:17	1		Rxi-5SilMS 0.32(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CH733 Start Date: 11/25/2016 09:00

Analysis Batch Number: 195402 End Date: 11/25/2016 20:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-195402/2		11/25/2016 09:00	1	N11250002.D	Rxi-5SilMS 0.32(mm)
CCVIS 180-195402/3		11/25/2016 09:15	1	N11250003.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		11/25/2016 09:42	1		Rxi-5SilMS 0.32(mm)
MB 180-195373/1-A		11/25/2016 10:08	1	N11250005.D	Rxi-5SilMS 0.32(mm)
LCS 180-195373/2-A		11/25/2016 10:35	1	N11250006.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		11/25/2016 11:01	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		11/25/2016 11:28	50		Rxi-5SilMS 0.32(mm)
ZZZZZ		11/25/2016 11:54	10		Rxi-5SilMS 0.32(mm)
ZZZZZ		11/25/2016 12:21	5		Rxi-5SilMS 0.32(mm)
ZZZZZ		11/25/2016 12:48	40		Rxi-5SilMS 0.32(mm)
ZZZZZ		11/25/2016 13:14	40		Rxi-5SilMS 0.32(mm)
ZZZZZ		11/25/2016 13:41	10		Rxi-5SilMS 0.32(mm)
ZZZZZ		11/25/2016 14:07	50		Rxi-5SilMS 0.32(mm)
ZZZZZ		11/25/2016 14:34	50		Rxi-5SilMS 0.32(mm)
ZZZZZ		11/25/2016 15:00	50		Rxi-5SilMS 0.32(mm)
ZZZZZ		11/25/2016 15:27	40		Rxi-5SilMS 0.32(mm)
ZZZZZ		11/25/2016 15:53	50		Rxi-5SilMS 0.32(mm)
ZZZZZ		11/25/2016 16:20	50		Rxi-5SilMS 0.32(mm)
ZZZZZ		11/25/2016 16:46	50		Rxi-5SilMS 0.32(mm)
ZZZZZ		11/25/2016 17:13	50		Rxi-5SilMS 0.32(mm)
ZZZZZ		11/25/2016 17:40	50		Rxi-5SilMS 0.32(mm)
ZZZZZ		11/25/2016 18:06	50		Rxi-5SilMS 0.32(mm)
180-61122-1		11/25/2016 18:33	1	N11250024.D	Rxi-5SilMS 0.32(mm)
180-61122-1 MS		11/25/2016 18:59	1	N11250025.D	Rxi-5SilMS 0.32(mm)
180-61122-1 MSD		11/25/2016 19:26	1	N11250026.D	Rxi-5SilMS 0.32(mm)
180-61122-2		11/25/2016 19:53	1	N11250027.D	Rxi-5SilMS 0.32(mm)
180-61122-3		11/25/2016 20:19	10	N11250028.D	Rxi-5SilMS 0.32(mm)
180-61122-4		11/25/2016 20:46	5	N11250029.D	Rxi-5SilMS 0.32(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Batch Number: 195373 Batch Start Date: 11/25/16 02:15 Batch Analyst: Geehring, Kevin

Batch Method: 3541 Batch End Date: 11/25/16 10:11

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	InitialAmount	OPLVISPKMIX1i 00054	OPQL8270SURi 00049		
MB 180-195373/1		3541, 8270D LL		0.5 mL	15.0 g		50 uL		
LCS 180-195373/2		3541, 8270D LL		0.5 mL	15.0 g	50 uL	50 uL		
180-61122-A-1 MS	BGSB22-(0.0-0.5) -161122-S	3541, 8270D LL	T	0.5 mL	15.1 g	50 uL	50 uL		
180-61122-A-1 MSD	BGSB22-(0.0-0.5) -161122-S	3541, 8270D LL	T	0.5 mL	15.2 g	50 uL	50 uL		
180-61122-A-1	BGSB22-(0.0-0.5) -161122-S	3541, 8270D LL	T	0.5 mL	15.1 g		50 uL		
180-61122-A-2	BGSB22-(1-2) -161122-S	3541, 8270D LL	T	0.5 mL	15.2 g		50 uL		
180-61122-A-3	BGSB10-(0.0-0.5) -161122-S	3541, 8270D LL	T	0.5 mL	15.2 g		50 uL		
180-61122-A-4	BGSB10-(1-2) -161122-S	3541, 8270D LL	T	0.5 mL	15.0 g		50 uL		

Batch Notes	
Balance ID	T0358722
Batch Comment	sox # 1 - 2 - 3 - 4
Concentrator ID	kg
Exchange Solvent ID	2148007
Exchange Solvent Name	Methylene chloride
Magnesium Sulfate ID	2144283
N-evap ID	2
Na2SO4 ID	2119020
Person's name who did the prep	kg kg
Solvent	Mecl2 / Acetone
Solvent Lot #	2148262
Uncorrected N-evap Temperature	32 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8081B Low Level

Organochlorine Pesticides (GC) by Method 8081B Low Level

FORM II
PESTICIDES SURROGATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): MR-1 ID: 0.53(mm) GC Column (2): MR-2 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
BGSB22-(0.0-0.5) -161122-S	180-61122-1	63	62	84	92
BGSB22-(1-2) -161122-S	180-61122-2	63	61	77	77
BGSB10-(0.0-0.5) -161122-S	180-61122-3	76	74	166 X	193 X
BGSB10-(1-2) -161122-S	180-61122-4	60	56	93 p	152 X
	MB 180-195769/1-A	80	76	99	92
	LCS 180-195769/2-A	83	74	91	99

	QC LIMITS
TCX = Tetrachloro-m-xylene	32-114
DCB = DCB Decachlorobiphenyl (Surr)	26-143

Column to be used to flag recovery values

FORM II 8081B_LL

FORM III
PESTICIDES LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: Q1201160000026.D

Lab ID: LCS 180-195769/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
Aldrin	0.00167	0.001366	82	42-114	
alpha-BHC	0.00167	0.001256	75	44-100	
beta-BHC	0.00167	0.001220	73	32-110	
delta-BHC	0.00167	0.0007284	44	20-106	
gamma-BHC (Lindane)	0.00167	0.001300	78	44-100	
cis-Chlordane	0.00167	0.001356	81	38-112	
trans-Chlordane	0.00167	0.001394	84	37-113	
4,4'-DDD	0.00167	0.001751	105	41-111	
4,4'-DDE	0.00167	0.001434	86	39-119	
4,4'-DDT	0.00167	0.0007379	44	25-112	
Dieldrin	0.00167	0.001539	92	38-116	
Endosulfan I	0.00167	0.001329	80	39-114	
Endosulfan II	0.00167	0.001407	84	37-108	
Endosulfan sulfate	0.00167	0.001271	76	29-100	
Endrin	0.00167	0.001437	86	38-114	
Endrin aldehyde	0.00167	0.001316	79	25-105	
Endrin ketone	0.00167	0.001301	78	31-113	
Heptachlor	0.00167	0.001367	82	47-114	
Heptachlor epoxide	0.00167	0.001368	82	40-115	
Methoxychlor	0.00167	0.0008964	54	26-119	

Column to be used to flag recovery and RPD values

FORM III 8081B_LL

FORM IV
PESTICIDES METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: MB 180-195769/1-A

Matrix: Solid Date Extracted: 11/30/2016 04:24

Lab File ID:(1) Q1201160000016.D Lab File ID:(2) Q1201160000016.D

Date Analyzed:(1) 12/01/2016 13:44 Date Analyzed:(2) 12/01/2016 13:44

Instrument ID:(1) CHGC15 Instrument ID:(2) CHGC15

GC Column:(1) MR-1 ID: 0.53(mm) GC Column:(2) MR-2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
BGSB22-(0.0-0.5) -161122-S	180-61122-1	12/01/2016 15:17	12/01/2016 15:17
BGSB22-(1-2)-161122-S	180-61122-2	12/01/2016 15:32	12/01/2016 15:32
BGSB10-(0.0-0.5) -161122-S	180-61122-3	12/01/2016 15:48	12/01/2016 15:48
BGSB10-(1-2)-161122-S	180-61122-4	12/01/2016 16:03	12/01/2016 16:03
	LCS 180-195769/2-A	12/01/2016 16:19	12/01/2016 16:19

FORM VIII
PESTICIDES INTERNAL STANDARD HEIGHT AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Sample No.: CCVIS 180-195949/6 Date Analyzed: 12/01/2016 11:10

Instrument ID: CHGC15 GC Column: MR-1 ID: 0.53(mm)

Lab File ID (Standard): Q1201160000006.D Heated Purge: (Y/N) N

Calibration ID: 33113

		BNB		DBC			
		HEIGHT #	RT #	HEIGHT #	RT #	HEIGHT #	RT #
12/24 HOUR STD		92493495	3.73	55382255	8.18		
UPPER LIMIT		184986990	3.76	110764510	8.21		
LOWER LIMIT		46246748	3.70	27691128	8.15		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-195769/1-A		94153403	3.73	51141271	8.18		
180-61122-1	BGSB22-(0.0-0.5) -161122-S	99516384	3.73	56629024	8.18		
180-61122-2	BGSB22-(1-2)-161122-S	102507315	3.73	56687002	8.18		
180-61122-3	BGSB10-(0.0-0.5) -161122-S	103626619	3.73	56106800	8.18		
180-61122-4	BGSB10-(1-2)-161122-S	100513758	3.74	56822438	8.18		
LCS 180-195769/2-A		94230738	3.73	50279423	8.18		

BNB = 1-Bromo-2-nitrobenzene
DBC = Dibutylchlorendate ISTD

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.03 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B_LL

FORM VIII
PESTICIDES INTERNAL STANDARD HEIGHT AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Sample No.: CCVIS 180-195949/6 Date Analyzed: 12/01/2016 11:10

Instrument ID: CHGC15 GC Column: MR-2 ID: 0.53(mm)

Lab File ID (Standard): Q1201160000006.D Heated Purge: (Y/N) N

Calibration ID: 33114

		BNB		DBC			
		HEIGHT #	RT #	HEIGHT #	RT #	HEIGHT #	RT #
12/24 HOUR STD		127183551	3.80	85271773	7.95		
UPPER LIMIT		254367102	3.83	170543546	7.98		
LOWER LIMIT		63591776	3.77	42635887	7.92		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-195769/1-A		129450735	3.80	81208509	7.95		
180-61122-1	BGSB22-(0.0-0.5) -161122-S	140783198	3.80	85957888	7.95		
180-61122-2	BGSB22-(1-2)-161122-S	145036409	3.80	89092607	7.95		
180-61122-3	BGSB10-(0.0-0.5) -161122-S	145153900	3.80	90816804	7.95		
180-61122-4	BGSB10-(1-2)-161122-S	142720024	3.81	85635565	7.95		
LCS 180-195769/2-A		130410408	3.80	78645250	7.95		

BNB = 1-Bromo-2-nitrobenzene
DBC = Dibutylchlorendate ISTD

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.03 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B_LL

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(0.0-0.5)-161122-S Lab Sample ID: 180-61122-1

Instrument ID (1): CHGC15 Instrument ID (2): CHGC15

Date Analyzed (1): 12/01/2016 15:17 Date Analyzed (2): 12/01/2016 15:17

GC Column (1): MR-1 ID: 0.53(mm) GC Column (2): MR-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Heptachlor	1		5.84	5.83	5.85	0.000453		57.5
	2		5.71	5.70	5.72	0.000251		
Heptachlor epoxide	1		6.48	6.48	6.50	0.00575		145.6
	2		6.41	6.40	6.42	0.000906		
4,4'-DDE	1		6.92	6.92	6.94	0.00909		58.0
	2		6.83	6.82	6.84	0.00500		
4,4'-DDD	1		7.39	7.38	7.40	0.00532		167.4
	2		7.34	7.34	7.36	0.000472		
4,4'-DDT	1		7.67	7.66	7.68	0.00420		100.9
	2		7.58	7.58	7.60	0.0128		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB10-(0.0-0.5)-161122-S Lab Sample ID: 180-61122-3

Instrument ID (1): CHGC15 Instrument ID (2): CHGC15

Date Analyzed (1): 12/01/2016 15:48 Date Analyzed (2): 12/01/2016 15:48

GC Column (1): MR-1 ID: 0.53(mm) GC Column (2): MR-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aldrin	1		6.12	6.12	6.14	0.000148		17.9
	2		5.97	5.96	5.98	0.000123		
Heptachlor epoxide	1		6.48	6.48	6.50	0.000322		54.9
	2		6.41	6.40	6.42	0.000183		
cis-Chlordane	1		6.78	6.76	6.78	0.00478		122.4
	2		6.69	6.68	6.70	0.00115		
Dieldrin	1		7.05	7.05	7.07	0.00140		88.1
	2		6.99	6.99	7.01	0.00359		
4,4'-DDD	1		7.39	7.38	7.40	0.000970		21.3
	2		7.34	7.34	7.36	0.000784		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB10-(1-2)-161122-S Lab Sample ID: 180-61122-4

Instrument ID (1): CHGC15 Instrument ID (2): CHGC15

Date Analyzed (1): 12/01/2016 16:03 Date Analyzed (2): 12/01/2016 16:03

GC Column (1): MR-1 ID: 0.53(mm) GC Column (2): MR-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aldrin	1		6.13	6.12	6.14	0.0000595		30.6
	2		5.97	5.96	5.98	0.0000811		
cis-Chlordane	1		6.78	6.76	6.78	0.00884		173.8
	2		6.69	6.68	6.70	0.000621		
Dieldrin	1		7.05	7.05	7.07	0.000716		22.7
	2		7.00	6.99	7.01	0.000899		
4,4'-DDD	1		7.39	7.38	7.40	0.00212		147.7
	2		7.34	7.34	7.36	0.000319		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 180-195769/2-A

Instrument ID (1): CHGC15 Instrument ID (2): CHGC15

Date Analyzed (1): 12/01/2016 16:19 Date Analyzed (2): 12/01/2016 16:19

GC Column (1): MR-1 ID: 0.53(mm) GC Column (2): MR-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		5.11	5.09	5.11	0.001256		4.7
	2		5.11	5.09	5.11	0.001198		
gamma-BHC (Lindane)	1		5.37	5.36	5.38	0.001300		1.4
	2		5.40	5.39	5.41	0.001282		
beta-BHC	1		5.54	5.53	5.55	0.001220		2.6
	2		5.64	5.63	5.65	0.001188		
delta-BHC	1		5.74	5.73	5.75	0.0007284		4.8
	2		5.86	5.85	5.87	0.0006942		
Heptachlor	1		5.85	5.83	5.85	0.001367		5.9
	2		5.71	5.70	5.72	0.001289		
Aldrin	1		6.13	6.12	6.14	0.001366		3.3
	2		5.97	5.96	5.98	0.001321		
Heptachlor epoxide	1		6.49	6.48	6.50	0.001368		4.4
	2		6.41	6.40	6.42	0.001309		
trans-Chlordane	1		6.71	6.70	6.72	0.001394		5.6
	2		6.63	6.62	6.64	0.001318		
cis-Chlordane	1		6.77	6.76	6.78	0.001356		4.9
	2		6.69	6.68	6.70	0.001291		
Endosulfan I	1		6.82	6.81	6.83	0.001329		2.0
	2		6.76	6.75	6.77	0.001303		
4,4'-DDE	1		6.93	6.92	6.94	0.001434		1.1
	2		6.84	6.82	6.84	0.001418		
Dieldrin	1		7.06	7.05	7.07	0.001539		2.5
	2		7.00	6.99	7.01	0.001501		
Endrin	1		7.26	7.25	7.27	0.001437		0.6
	2		7.26	7.25	7.27	0.001429		
4,4'-DDD	1		7.39	7.38	7.40	0.001751		1.9
	2		7.35	7.34	7.36	0.001718		
Endosulfan II	1		7.46	7.45	7.47	0.001407		1.3
	2		7.52	7.51	7.53	0.001426		
Endrin aldehyde	1		7.58	7.57	7.59	0.001316		0.1
	2		7.69	7.68	7.70	0.001317		
4,4'-DDT	1		7.67	7.66	7.68	0.0007379		0.3
	2		7.59	7.58	7.60	0.0007356		
Endosulfan sulfate	1		7.79	7.78	7.80	0.001271		2.7
	2		7.89	7.88	7.90	0.001305		
Methoxychlor	1		8.11	8.10	8.12	0.0008964		3.5
	2		8.12	8.11	8.13	0.0009285		
Endrin ketone	1		8.24	8.23	8.25	0.001301		5.5
	2		8.43	8.42	8.44	0.001374		

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(0.0-0.5)-161122-S | Lab Sample ID: 180-61122-1

Matrix: Solid | Lab File ID: Q1201160000022.D

Analysis Method: 8081B_LL | Date Collected: 11/22/2016 09:35

Extraction Method: 3541 | Date Extracted: 11/30/2016 04:24

Sample wt/vol: 15.1(g) | Date Analyzed: 12/01/2016 15:17

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: MR-1 ID: 0.53(mm)

% Moisture: 8.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195949 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
309-00-2	Aldrin	0.0000475	U	0.000450	0.0000475
319-84-6	alpha-BHC	0.000132	U	0.000450	0.000132
319-85-7	beta-BHC	0.000101	U	0.000450	0.000101
319-86-8	delta-BHC	0.000160	U	0.000450	0.000160
58-89-9	gamma-BHC (Lindane)	0.0000929	U	0.000450	0.0000929
5103-71-9	cis-Chlordane	0.0000724	U	0.000450	0.0000724
5103-74-2	trans-Chlordane	0.0000351	U	0.000450	0.0000351
50-29-3	4,4'-DDT	0.00420	p	0.000450	0.0000459
60-57-1	Dieldrin	0.0000427	U	0.000450	0.0000427
959-98-8	Endosulfan I	0.0000286	U	0.000450	0.0000286
33213-65-9	Endosulfan II	0.000138	U	0.000450	0.000138
1031-07-8	Endosulfan sulfate	0.0000573	U	0.000450	0.0000573
72-20-8	Endrin	0.000131	U	0.000450	0.000131
7421-93-4	Endrin aldehyde	0.000132	U	0.000450	0.000132
53494-70-5	Endrin ketone	0.000150	U	0.000450	0.000150
72-43-5	Methoxychlor	0.000131	U	0.000450	0.000131
8001-35-2	Toxaphene	0.0148	U	0.0180	0.0148

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	63		32-114
2051-24-3	DCB Decachlorobiphenyl (Surr)	84		26-143

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-61122-1
SDG No.:
Client Sample ID: BGSB22-(0.0-0.5)-161122-S
Lab Sample ID: 180-61122-1
Matrix: Solid
Lab File ID: Q1201160000022.D
Analysis Method: 8081B_LL
Date Collected: 11/22/2016 09:35
Extraction Method: 3541
Date Extracted: 11/30/2016 04:24
Sample wt/vol: 15.1(g)
Date Analyzed: 12/01/2016 15:17
Con. Extract Vol.: 1.0(mL)
Dilution Factor: 5
Injection Volume: 1(uL)
GC Column: MR-2
ID: 0.53(mm)
% Moisture: 8.1
GPC Cleanup:(Y/N) N
Analysis Batch No.: 195949
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	0.000472	p	0.000450	0.0000459
72-55-9	4,4'-DDE	0.00500	p	0.000450	0.000143
76-44-8	Heptachlor	0.000251	J p	0.000450	0.0000389
1024-57-3	Heptachlor epoxide	0.000906	p	0.000450	0.0000540

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	62		32-114
2051-24-3	DCB Decachlorobiphenyl (Surr)	92		26-143

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(1-2)-161122-S | Lab Sample ID: 180-61122-2

Matrix: Solid | Lab File ID: Q1201160000023.D

Analysis Method: 8081B_LL | Date Collected: 11/22/2016 09:40

Extraction Method: 3541 | Date Extracted: 11/30/2016 04:24

Sample wt/vol: 15.2(g) | Date Analyzed: 12/01/2016 15:32

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: MR-1 ID: 0.53(mm)

% Moisture: 19.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195949 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
309-00-2	Aldrin	0.0000541	U	0.000512	0.0000541
319-84-6	alpha-BHC	0.000151	U	0.000512	0.000151
319-85-7	beta-BHC	0.000115	U	0.000512	0.000115
319-86-8	delta-BHC	0.000183	U	0.000512	0.000183
58-89-9	gamma-BHC (Lindane)	0.000106	U	0.000512	0.000106
5103-71-9	cis-Chlordane	0.0000824	U	0.000512	0.0000824
5103-74-2	trans-Chlordane	0.0000400	U	0.000512	0.0000400
72-54-8	4,4'-DDD	0.0000522	U	0.000512	0.0000522
50-29-3	4,4'-DDT	0.0000522	U	0.000512	0.0000522
60-57-1	Dieldrin	0.0000486	U	0.000512	0.0000486
959-98-8	Endosulfan I	0.0000326	U	0.000512	0.0000326
33213-65-9	Endosulfan II	0.000157	U	0.000512	0.000157
1031-07-8	Endosulfan sulfate	0.0000652	U	0.000512	0.0000652
72-20-8	Endrin	0.000149	U	0.000512	0.000149
7421-93-4	Endrin aldehyde	0.000151	U	0.000512	0.000151
53494-70-5	Endrin ketone	0.000171	U	0.000512	0.000171
76-44-8	Heptachlor	0.0000443	U	0.000512	0.0000443
1024-57-3	Heptachlor epoxide	0.0000615	U	0.000512	0.0000615
72-43-5	Methoxychlor	0.000149	U	0.000512	0.000149
8001-35-2	Toxaphene	0.0169	U	0.0205	0.0169

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	63		32-114
2051-24-3	DCB Decachlorobiphenyl (Surr)	77		26-143

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(1-2)-161122-S | Lab Sample ID: 180-61122-2

Matrix: Solid | Lab File ID: Q1201160000023.D

Analysis Method: 8081B_LL | Date Collected: 11/22/2016 09:40

Extraction Method: 3541 | Date Extracted: 11/30/2016 04:24

Sample wt/vol: 15.2(g) | Date Analyzed: 12/01/2016 15:32

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: MR-2 ID: 0.53(mm)

% Moisture: 19.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195949 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-55-9	4,4'-DDE	0.000163	U	0.000512	0.000163

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	61		32-114
2051-24-3	DCB Decachlorobiphenyl (Surr)	77		26-143

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB10-(0.0-0.5)-161122-S | Lab Sample ID: 180-61122-3

Matrix: Solid | Lab File ID: Q1201160000024.D

Analysis Method: 8081B_LL | Date Collected: 11/22/2016 15:30

Extraction Method: 3541 | Date Extracted: 11/30/2016 04:24

Sample wt/vol: 15.0(g) | Date Analyzed: 12/01/2016 15:48

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: MR-1 ID: 0.53(mm)

% Moisture: 9.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195949 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
309-00-2	Aldrin	0.000148	J	0.000459	0.0000485
319-84-6	alpha-BHC	0.000135	U	0.000459	0.000135
319-85-7	beta-BHC	0.000103	U	0.000459	0.000103
319-86-8	delta-BHC	0.000164	U	0.000459	0.000164
58-89-9	gamma-BHC (Lindane)	0.0000947	U	0.000459	0.0000947
5103-74-2	trans-Chlordane	0.0000358	U	0.000459	0.0000358
72-54-8	4,4'-DDD	0.000970		0.000459	0.0000468
72-55-9	4,4'-DDE	0.000146	U	0.000459	0.000146
50-29-3	4,4'-DDT	0.0000468	U	0.000459	0.0000468
60-57-1	Dieldrin	0.00140	p	0.000459	0.0000435
959-98-8	Endosulfan I	0.0000292	U	0.000459	0.0000292
33213-65-9	Endosulfan II	0.000140	U	0.000459	0.000140
1031-07-8	Endosulfan sulfate	0.0000584	U	0.000459	0.0000584
72-20-8	Endrin	0.000134	U	0.000459	0.000134
7421-93-4	Endrin aldehyde	0.000135	U	0.000459	0.000135
53494-70-5	Endrin ketone	0.000153	U	0.000459	0.000153
76-44-8	Heptachlor	0.0000397	U	0.000459	0.0000397
72-43-5	Methoxychlor	0.000133	U	0.000459	0.000133
8001-35-2	Toxaphene	0.0151	U	0.0184	0.0151

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	76		32-114
2051-24-3	DCB Decachlorobiphenyl (Surr)	166	X	26-143

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB10-(0.0-0.5)-161122-S | Lab Sample ID: 180-61122-3

Matrix: Solid | Lab File ID: Q1201160000024.D

Analysis Method: 8081B_LL | Date Collected: 11/22/2016 15:30

Extraction Method: 3541 | Date Extracted: 11/30/2016 04:24

Sample wt/vol: 15.0(g) | Date Analyzed: 12/01/2016 15:48

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: MR-2 ID: 0.53(mm)

% Moisture: 9.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195949 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
5103-71-9	cis-Chlordane	0.00115	p	0.000459	0.0000738
1024-57-3	Heptachlor epoxide	0.000183	J p	0.000459	0.0000551

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	74		32-114
2051-24-3	DCB Decachlorobiphenyl (Surr)	193	X	26-143

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB10-(1-2)-161122-S | Lab Sample ID: 180-61122-4

Matrix: Solid | Lab File ID: Q1201160000025.D

Analysis Method: 8081B_LL | Date Collected: 11/22/2016 15:35

Extraction Method: 3541 | Date Extracted: 11/30/2016 04:24

Sample wt/vol: 15.0(g) | Date Analyzed: 12/01/2016 16:03

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: MR-1 ID: 0.53(mm)

% Moisture: 9.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195949 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
319-84-6	alpha-BHC	0.000135	U	0.000459	0.000135
319-85-7	beta-BHC	0.000103	U	0.000459	0.000103
319-86-8	delta-BHC	0.000163	U	0.000459	0.000163
58-89-9	gamma-BHC (Lindane)	0.0000947	U	0.000459	0.0000947
5103-74-2	trans-Chlordane	0.0000358	U	0.000459	0.0000358
72-55-9	4,4'-DDE	0.000146	U	0.000459	0.000146
50-29-3	4,4'-DDT	0.0000468	U	0.000459	0.0000468
959-98-8	Endosulfan I	0.0000292	U	0.000459	0.0000292
33213-65-9	Endosulfan II	0.000140	U	0.000459	0.000140
1031-07-8	Endosulfan sulfate	0.0000583	U	0.000459	0.0000583
72-20-8	Endrin	0.000134	U	0.000459	0.000134
7421-93-4	Endrin aldehyde	0.000135	U	0.000459	0.000135
53494-70-5	Endrin ketone	0.000153	U	0.000459	0.000153
76-44-8	Heptachlor	0.0000396	U	0.000459	0.0000396
1024-57-3	Heptachlor epoxide	0.0000550	U	0.000459	0.0000550
72-43-5	Methoxychlor	0.000133	U	0.000459	0.000133
8001-35-2	Toxaphene	0.0151	U	0.0183	0.0151

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	60		32-114
2051-24-3	DCB Decachlorobiphenyl (Surr)	93	p	26-143

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB10-(1-2)-161122-S | Lab Sample ID: 180-61122-4

Matrix: Solid | Lab File ID: Q1201160000025.D

Analysis Method: 8081B_LL | Date Collected: 11/22/2016 15:35

Extraction Method: 3541 | Date Extracted: 11/30/2016 04:24

Sample wt/vol: 15.0(g) | Date Analyzed: 12/01/2016 16:03

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: MR-2 ID: 0.53(mm)

% Moisture: 9.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195949 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
309-00-2	Aldrin	0.0000811	J	0.000459	0.0000484
5103-71-9	cis-Chlordane	0.000621	p	0.000459	0.0000738
72-54-8	4,4'-DDD	0.000319	J p	0.000459	0.0000468
60-57-1	Dieldrin	0.000899		0.000459	0.0000435

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	56		32-114
2051-24-3	DCB Decachlorobiphenyl (Surr)	152	X	26-143

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189037

SDG No.:

Instrument ID: CHGC15 GC Column: MR-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/24/2016 09:17 Calibration End Date: 09/24/2016 10:18 Calibration ID: 32931

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-189037/2	Q0924160000002.D
Level 2	IC 180-189037/3	Q0924160000003.D
Level 3	IC 180-189037/4	Q0924160000004.D
Level 4	IC 180-189037/5	Q0924160000005.D
Level 5	IC 180-189037/6	Q0924160000006.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								
Toxaphene Peak 1	0.0298	0.0229	0.0210	0.0240	0.0199	Ave		0.0235				16.3		20.0			
Toxaphene Peak 2	0.0316	0.0436	0.0395	0.0462	0.0379	Ave		0.0397				14.1		20.0			
Toxaphene Peak 3	0.0311	0.0245	0.0219	0.0258	0.0212	Ave		0.0249				15.7		20.0			
Toxaphene Peak 4	0.0193	0.0186	0.0177	0.0208	0.0170	Ave		0.0187				7.8		20.0			

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

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189037

SDG No.:

Instrument ID: CHGC15 GC Column: MR-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/24/2016 09:17 Calibration End Date: 09/24/2016 10:18 Calibration ID: 32931

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-189037/2	Q0924160000002.D
Level 2	IC 180-189037/3	Q0924160000003.D
Level 3	IC 180-189037/4	Q0924160000004.D
Level 4	IC 180-189037/5	Q0924160000005.D
Level 5	IC 180-189037/6	Q0924160000006.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	DBC	Ave	283681	2381105	12753061	31634642	65476633	0.0200	0.200	1.00	2.50	5.00
Toxaphene Peak 2	DBC	Ave	301187	4527643	23957553	60869839	124808527	0.0200	0.200	1.00	2.50	5.00
Toxaphene Peak 3	DBC	Ave	296046	2548259	13276929	34069146	69996346	0.0200	0.200	1.00	2.50	5.00
Toxaphene Peak 4	DBC	Ave	184392	1931369	10738006	27387011	56077316	0.0200	0.200	1.00	2.50	5.00

Curve Type Legend:
Ave = Average ISTD by Height

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189037

SDG No.:

Instrument ID: CHGC15 GC Column: MR-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/24/2016 09:17 Calibration End Date: 09/24/2016 10:18 Calibration ID: 32932

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-189037/2	Q0924160000002.D
Level 2	IC 180-189037/3	Q0924160000003.D
Level 3	IC 180-189037/4	Q0924160000004.D
Level 4	IC 180-189037/5	Q0924160000005.D
Level 5	IC 180-189037/6	Q0924160000006.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								
Toxaphene Peak 1	0.0176	0.0148	0.0131	0.0117	0.0115	Ave		0.0137				18.3		20.0			
Toxaphene Peak 2	0.0269	0.0240	0.0250	0.0229	0.0237	Ave		0.0245				6.4		20.0			
Toxaphene Peak 3	0.0158	0.0322	0.0331	0.0320	0.0332	Lin1	0	0.0332							1.0000		0.9900
Toxaphene Peak 4	0.0158	0.0043	0.0043	0.0039	0.0042	Lin1	0.0002	0.0041							0.9980		0.9900

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

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189037

SDG No.:

Instrument ID: CHGC15 GC Column: MR-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/24/2016 09:17 Calibration End Date: 09/24/2016 10:18 Calibration ID: 32932

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-189037/2	Q0924160000002.D
Level 2	IC 180-189037/3	Q0924160000003.D
Level 3	IC 180-189037/4	Q0924160000004.D
Level 4	IC 180-189037/5	Q0924160000005.D
Level 5	IC 180-189037/6	Q0924160000006.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	DBC	Ave	257224	2350921	10861150	26040673	49778778	0.0200	0.200	1.00	2.50	5.00
Toxaphene Peak 2	DBC	Ave	394004	3820614	20785642	50722139	102105960	0.0200	0.200	1.00	2.50	5.00
Toxaphene Peak 3	DBC	Lin1	230370	5125155	27533636	70927561	143393794	0.0200	0.200	1.00	2.50	5.00
Toxaphene Peak 4	DBC	Lin1	230370	689789	3591913	8753741	18268134	0.0200	0.200	1.00	2.50	5.00

Curve Type Legend:
Ave = Average ISTD by Height
Lin1 = Linear 1/Conc^2 ISTD by Height

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 190365

SDG No.:

Instrument ID: CHGC15 GC Column: MR-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2016 13:08 Calibration End Date: 10/06/2016 14:25 Calibration ID: 33113

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-190365/7	Q100616A0000007.D
Level 2	IC 180-190365/8	Q100616A0000008.D
Level 3	ICIS 180-190365/9	Q100616A0000009.D
Level 4	IC 180-190365/10	Q100616A0000010.D
Level 5	IC 180-190365/11	Q100616A0000011.D
Level 6	IC 180-190365/12	Q100616A0000012.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
alpha-BHC	1.7902 1.5768	1.7708	1.7829	1.7231	1.7395	Ave		1.7306				4.6		20.0			
gamma-BHC (Lindane)	1.5885 1.3355	1.5485	1.5280	1.4534	1.4962	Ave		1.4917				6.0		20.0			
beta-BHC	0.7971 0.5733	0.6859	0.6543	0.6332	0.6400	Ave		0.6640				11.3		20.0			
delta-BHC	1.4076 1.2722	1.3902	1.3961	1.3747	1.4555	Ave		1.3827				4.4		20.0			
Heptachlor	1.3959 1.0802	1.2856	1.2966	1.2058	1.2067	Ave		1.2451				8.6		20.0			
Aldrin	1.3385 1.1002	1.2899	1.2865	1.2318	1.2620	Ave		1.2515				6.6		20.0			
Heptachlor epoxide	1.3395 0.9573	1.2133	1.1500	1.0979	1.0788	Ave		1.1394				11.4		20.0			
trans-Chlordane	1.2651 1.0266	1.1615	1.1554	1.1190	1.1489	Ave		1.1461				6.7		20.0			
cis-Chlordane	1.2597 0.9666	1.1024	1.1113	1.0720	1.0775	Ave		1.0983				8.6		20.0			
Endosulfan I	1.1821 0.8842	1.0641	1.0382	0.9987	1.0107	Ave		1.0297				9.4		20.0			
4,4'-DDE	1.9742 1.6710	1.9644	1.9191	1.8526	1.9202	Ave		1.8836				6.0		20.0			
Dieldrin	2.0980 1.6198	1.9925	1.9115	1.8209	1.8616	Ave		1.8841				8.6		20.0			
Endrin	1.7555 1.4165	1.7734	1.6526	1.5636	1.6117	Ave		1.6289				8.1		20.0			
4,4'-DDD	1.7362 1.3297	1.6058	1.5225	1.4906	1.5487	Ave		1.5389				8.7		20.0			
Endosulfan II	1.8012 1.3340	1.7429	1.6095	1.5393	1.5766	Ave		1.6006				10.3		20.0			

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

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 190365

SDG No.:

Instrument ID: CHGC15 GC Column: MR-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2016 13:08 Calibration End Date: 10/06/2016 14:25 Calibration ID: 33113

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Endrin aldehyde	1.4304 1.0752	1.3707	1.2410	1.1721	1.2264	Ave		1.2527				10.4		20.0			
4,4'-DDT	1.2943 1.1830	1.3225	1.2955	1.2508	1.3266	Ave		1.2788				4.2		20.0			
Endosulfan sulfate	1.6526 1.2339	1.5438	1.4163	1.3499	1.4066	Ave		1.4339				10.3		20.0			
Methoxychlor	0.8219 0.5315	0.6811	0.5933	0.5771	0.5902	Ave		0.6325				16.6		20.0			
Endrin ketone	1.6697 1.2930	1.6048	1.4512	1.4294	1.4781	Ave		1.4877				9.0		20.0			
Tetrachloro-m-xylene	1.4280 1.0912	1.3300	1.2801	1.2366	1.2479	Ave		1.2690				8.8		20.0			
DCB Decachlorobiphenyl (Surr)	0.9202 0.5829	0.8214	0.6961	0.6554	0.7020	Ave		0.7296				16.6		20.0			

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

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 190365

SDG No.:

Instrument ID: CHGC15 GC Column: MR-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2016 13:08 Calibration End Date: 10/06/2016 14:25 Calibration ID: 33113

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-190365/7	Q100616A0000007.D
Level 2	IC 180-190365/8	Q100616A0000008.D
Level 3	ICIS 180-190365/9	Q100616A0000009.D
Level 4	IC 180-190365/10	Q100616A0000010.D
Level 5	IC 180-190365/11	Q100616A0000011.D
Level 6	IC 180-190365/12	Q100616A0000012.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	BNB	Ave	1554209 307275055	7771974	40013274	80642043	158307297	0.00100 0.200	0.00500	0.0250	0.0500	0.100
gamma-BHC (Lindane)	BNB	Ave	1379101 260264260	6796072	34292631	68019324	136162459	0.00100 0.200	0.00500	0.0250	0.0500	0.100
beta-BHC	BNB	Ave	692033 111722818	3010263	14684809	29634415	58242766	0.00100 0.200	0.00500	0.0250	0.0500	0.100
delta-BHC	BNB	Ave	1221995 247922954	6101583	31333023	64333190	132454570	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Heptachlor	BNB	Ave	1211853 210499004	5642570	29099823	56428567	109812772	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Aldrin	BNB	Ave	1162027 214400378	5661287	28873298	57646936	114847559	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Heptachlor epoxide	BNB	Ave	1162896 186547749	5325024	25810017	51379126	98173151	0.00100 0.200	0.00500	0.0250	0.0500	0.100
trans-Chlordane	BNB	Ave	1098288 200060544	5097498	25932000	52367183	104558407	0.00100 0.200	0.00500	0.0250	0.0500	0.100
cis-Chlordane	BNB	Ave	1093654 188368514	4838127	24941212	50169273	98059726	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Endosulfan I	BNB	Ave	1026267 172310430	4670333	23299969	46736620	91978788	0.00100 0.200	0.00500	0.0250	0.0500	0.100
4,4'-DDE	DBC	Ave	1012095 196337098	4876941	25607546	51885169	103538302	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Dieldrin	DBC	Ave	1075583 190322504	4946736	25506034	50997264	100377657	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Endrin	DBC	Ave	899989 166433282	4402563	22052357	43791306	86900179	0.00100 0.200	0.00500	0.0250	0.0500	0.100
4,4'-DDD	DBC	Ave	890084 156230940	3986653	20316484	41746036	83506794	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Endosulfan II	DBC	Ave	923406 156744125	4326900	21476842	43109630	85007734	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Endrin aldehyde	DBC	Ave	733317 126331566	3403046	16559906	32827784	66127470	0.00100 0.200	0.00500	0.0250	0.0500	0.100

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 190365

SDG No.:

Instrument ID: CHGC15 GC Column: MR-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2016 13:08 Calibration End Date: 10/06/2016 14:25 Calibration ID: 33113

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4,4'-DDT	DBC	Ave	663545 138996087	3283299	17287077	35030649	71532272	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Endosulfan sulfate	DBC	Ave	847244 144982180	3832608	18899271	37806557	75844288	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Methoxychlor	DBC	Ave	421354 62445659	1691032	7916442	16162260	31820955	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Endrin ketone	DBC	Ave	856004 151922717	3984149	19364556	40033352	79699748	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Tetrachloro-m-xylene	BNB	Ave	1239738 212658136	5837170	28729776	57869750	113569642	0.00100 0.200	0.00500	0.0250	0.0500	0.100
DCB Decachlorobiphenyl (Surr)	DBC	Ave	471747 68484866	2039125	9288223	18354225	37852178	0.00100 0.200	0.00500	0.0250	0.0500	0.100

Curve Type Legend:
Ave = Average ISTD by Height

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 190365

SDG No.:

Instrument ID: CHGC15 GC Column: MR-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2016 13:08 Calibration End Date: 10/06/2016 14:25 Calibration ID: 33114

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-190365/7	Q100616A0000007.D
Level 2	IC 180-190365/8	Q100616A0000008.D
Level 3	ICIS 180-190365/9	Q100616A0000009.D
Level 4	IC 180-190365/10	Q100616A0000010.D
Level 5	IC 180-190365/11	Q100616A0000011.D
Level 6	IC 180-190365/12	Q100616A0000012.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
alpha-BHC	2.0432 1.4979	1.9653	1.8159	1.7409	1.7403	Ave		1.8006				10.7		20.0			
gamma-BHC (Lindane)	1.7784 1.2741	1.6633	1.5484	1.4614	1.4578	Ave		1.5306				11.5		20.0			
beta-BHC	0.8222 0.5596	0.7300	0.6779	0.6523	0.6488	Ave		0.6818				12.9		20.0			
Heptachlor	1.5698 1.0336	1.4298	1.3189	1.2583	1.2169	Ave		1.3045				14.1		20.0			
delta-BHC	1.5512 1.2151	1.4678	1.4267	1.3766	1.3625	Ave		1.4000				8.1		20.0			
Aldrin	1.5280 1.0612	1.4428	1.3401	1.2644	1.2449	Ave		1.3136				12.5		20.0			
Heptachlor epoxide	1.3859 0.9310	1.3005	1.1773	1.1126	1.0790	Ave		1.1644				14.0		20.0			
trans-Chlordane	1.3823 0.9993	1.3101	1.1936	1.1693	1.1473	Ave		1.2003				11.1		20.0			
cis-Chlordane	1.3565 0.9552	1.2666	1.1584	1.1120	1.0949	Ave		1.1573				12.1		20.0			
Endosulfan I	1.2870 0.8764	1.1847	1.0844	1.0317	1.0089	Ave		1.0789				13.3		20.0			
4,4'-DDE	1.8780 1.4818	1.8156	1.6957	1.6490	1.6623	Ave		1.6971				8.2		20.0			
Dieldrin	2.1357 1.3995	1.8479	1.6810	1.6240	1.5788	Ave		1.7111				14.8		20.0			
Endrin	1.6762 1.1942	1.5371	1.3892	1.3432	1.3515	Ave		1.4152				11.9		20.0			
4,4'-DDD	1.5386 1.1650	1.4361	1.3496	1.3183	1.3301	Ave		1.3563				9.2		20.0			
Endosulfan II	1.6584 1.2070	1.5123	1.3771	1.3448	1.3504	Ave		1.4083				11.1		20.0			

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

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 190365

SDG No.:

Instrument ID: CHGC15 GC Column: MR-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2016 13:08 Calibration End Date: 10/06/2016 14:25 Calibration ID: 33114

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
4,4'-DDT	1.2447 1.0656	1.1942	1.1486	1.1768	1.1856	Ave		1.1692				5.1		20.0			
Endrin aldehyde	1.4740 0.9573	1.2225	1.0823	1.0560	1.0706	Ave		1.1438				16.0		20.0			
Endosulfan sulfate	1.4350 1.1010	1.3387	1.2157	1.2148	1.2138	Ave		1.2532				9.3		20.0			
Methoxychlor	0.6406 0.4852	0.5893	0.5405	0.5295	0.5425	Ave		0.5546				9.7		20.0			
Endrin ketone	1.5907 1.0453	1.3396	1.1985	1.1710	1.1859	Ave		1.2552				15.1		20.0			
Tetrachloro-m-xylene	1.7015 1.1254	1.5664	1.4147	1.3284	1.3118	Ave		1.4080				14.4		20.0			
DCB Decachlorobiphenyl (Surr)	0.8743 0.5841	0.7741	0.6606	0.6391	0.6607	Ave		0.6988				15.2		20.0			

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

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 190365

SDG No.:

Instrument ID: CHGC15 GC Column: MR-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2016 13:08 Calibration End Date: 10/06/2016 14:25 Calibration ID: 33114

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-190365/7	Q100616A0000007.D
Level 2	IC 180-190365/8	Q100616A0000008.D
Level 3	ICIS 180-190365/9	Q100616A0000009.D
Level 4	IC 180-190365/10	Q100616A0000010.D
Level 5	IC 180-190365/11	Q100616A0000011.D
Level 6	IC 180-190365/12	Q100616A0000012.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	BNB	Ave	2293632 375229035	10972850	52979205	103674192	202668188	0.00100 0.200	0.00500	0.0250	0.0500	0.100
gamma-BHC (Lindane)	BNB	Ave	1996399 319179566	9286540	45174399	87027333	169766875	0.00100 0.200	0.00500	0.0250	0.0500	0.100
beta-BHC	BNB	Ave	923028 140170399	4075771	19778021	38847855	75553589	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Heptachlor	BNB	Ave	1762280 258914831	7982776	38479289	74931264	141709023	0.00100 0.200	0.00500	0.0250	0.0500	0.100
delta-BHC	BNB	Ave	1741322 304378034	8195232	41623401	81979520	158674112	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Aldrin	BNB	Ave	1715340 265829308	8055611	39096794	75298453	144970741	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Heptachlor epoxide	BNB	Ave	1555779 233211673	7261198	34347109	66254351	125648610	0.00100 0.200	0.00500	0.0250	0.0500	0.100
trans-Chlordane	BNB	Ave	1551717 250338070	7314678	34821922	69632463	133607253	0.00100 0.200	0.00500	0.0250	0.0500	0.100
cis-Chlordane	BNB	Ave	1522741 239290627	7071702	33797062	66219497	127509478	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Endosulfan I	BNB	Ave	1444799 219547101	6614584	31636053	61438141	117489201	0.00100 0.200	0.00500	0.0250	0.0500	0.100
4,4'-DDE	DBC	Ave	1441315 255578316	7112149	35236224	69407607	135787536	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Dieldrin	DBC	Ave	1639088 241393412	7238742	34930431	68352596	128961089	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Endrin	DBC	Ave	1286419 205985565	6021229	28867705	56536775	110395322	0.00100 0.200	0.00500	0.0250	0.0500	0.100
4,4'-DDD	DBC	Ave	1180844 200939062	5625752	28044751	55486191	108646550	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Endosulfan II	DBC	Ave	1272823 208192634	5924030	28614892	56602871	110310282	0.00100 0.200	0.00500	0.0250	0.0500	0.100
4,4'-DDT	DBC	Ave	955302 183789830	4677980	23866713	49530594	96843596	0.00100 0.200	0.00500	0.0250	0.0500	0.100

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 190365

SDG No.:

Instrument ID: CHGC15 GC Column: MR-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2016 13:08 Calibration End Date: 10/06/2016 14:25 Calibration ID: 33114

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Endrin aldehyde	DBC	Ave	1131250 165109468	4788926	22488896	44446993	87448409	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Endosulfan sulfate	DBC	Ave	1101324 189903808	5244208	25262144	51131531	99151547	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Methoxychlor	DBC	Ave	491625 83683870	2308252	11230260	22287764	44311122	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Endrin ketone	DBC	Ave	1220809 180290391	5247718	24905062	49287937	96871652	0.00100 0.200	0.00500	0.0250	0.0500	0.100
Tetrachloro-m-xylene	BNB	Ave	1910092 281928123	8745301	41272557	79105784	152765468	0.00100 0.200	0.00500	0.0250	0.0500	0.100
DCB Decachlorobiphenyl (Surr)	DBC	Ave	671012 100746334	3032537	13726299	26898040	53966784	0.00100 0.200	0.00500	0.0250	0.0500	0.100

Curve Type Legend:
Ave = Average ISTD by Height

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID (1): PEM 180-195949/1 Instrument ID (1): CHGC15

GC Column (1): MR-1 ID: 0.53(mm) Date Analyzed (1): 12/01/2016 09:53

ANALYTE	RT	RESOLUTION (%)
Endrin aldehyde		100.0
4,4'-DDE		100.0
Tetrachloro-m-xylene	4.74	100.0
Endrin	7.26	100.0
4,4'-DDD	7.39	100.0
4,4'-DDT	7.67	100.0
Endrin ketone	8.25	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID (2): PEM 180-195949/1 Instrument ID (2): CHGC15

GC Column (2): MR-2 ID: 0.53(mm) Date Analyzed (2): 12/01/2016 09:53

ANALYTE	RT	RESOLUTION (%)
Endrin aldehyde		100.0
4,4'-DDE		100.0
Tetrachloro-m-xylene	4.65	100.0
Endrin	7.26	100.0
4,4'-DDD	7.35	100.0
4,4'-DDT	7.59	100.0
Endrin ketone	8.43	100.0

FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: PEM 180-195949/1 Calibration Date: 12/01/2016 09:53

Instrument ID: CHGC15 Calib Start Date: 10/06/2016 13:08

GC Column: MR-1 ID: 0.53(mm) Calib End Date: 10/06/2016 14:25

Lab File ID: Q1201160000001.D Conc. Units: ng/uL

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	7.26	25312205	4.58	15	
Endrin aldehyde		0			
Endrin ketone	8.25	1214097			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	7.67	34317127	10.80	15	
4,4'-DDD	7.39	4156167			
4,4'-DDE		0			

FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: PEM 180-195949/1 Calibration Date: 12/01/2016 09:53

Instrument ID: CHGC15 Calib Start Date: 10/06/2016 13:08

GC Column: MR-2 ID: 0.53(mm) Calib End Date: 10/06/2016 14:25

Lab File ID: Q1201160000001.D Conc. Units: ng/uL

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	7.26	33847681	4.25	15	
Endrin aldehyde		0			
Endrin ketone	8.43	1502043			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	7.59	49012628	9.83	15	
4,4'-DDD	7.35	5345204			
4,4'-DDE		0			

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCV 180-195949/2 Calibration Date: 12/01/2016 10:08

Instrument ID: CHGC15 Calib Start Date: 09/24/2016 09:17

GC Column: MR-1 ID: 0.53(mm) Calib End Date: 09/24/2016 10:18

Lab File ID: Q1201160000002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	0.0235	0.0229		0.974	1.00	-2.6	20.0
Toxaphene Peak 2	Ave	0.0397	0.0435		1.09	1.00	9.4	20.0
Toxaphene Peak 3	Ave	0.0249	0.0252		1.01	1.00	1.2	20.0
Toxaphene Peak 4	Ave	0.0187	0.0192		1.03	1.00	2.5	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCV 180-195949/2 Calibration Date: 12/01/2016 10:08

Instrument ID: CHGC15 Calib Start Date: 09/24/2016 09:17

GC Column: MR-1 ID: 0.53(mm) Calib End Date: 09/24/2016 10:18

Lab File ID: Q1201160000002.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	7.21	7.20	7.22
Toxaphene Peak 2	7.70	7.69	7.71
Toxaphene Peak 3	7.86	7.85	7.87
Toxaphene Peak 4	8.55	8.54	8.56

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCV 180-195949/2 Calibration Date: 12/01/2016 10:08

Instrument ID: CHGC15 Calib Start Date: 09/24/2016 09:17

GC Column: MR-2 ID: 0.53(mm) Calib End Date: 09/24/2016 10:18

Lab File ID: Q1201160000002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	0.0137	0.0132		0.959	1.00	-4.1	20.0
Toxaphene Peak 2	Ave	0.0245	0.0294		1.20	1.00	19.8	20.0
Toxaphene Peak 3	Lin1		0.0384		1.17	1.00	16.8	20.0
Toxaphene Peak 4	Lin1		0.0051		1.20	1.00	20.3*	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCV 180-195949/2 Calibration Date: 12/01/2016 10:08

Instrument ID: CHGC15 Calib Start Date: 09/24/2016 09:17

GC Column: MR-2 ID: 0.53(mm) Calib End Date: 09/24/2016 10:18

Lab File ID: Q1201160000002.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	6.95	6.94	6.96
Toxaphene Peak 2	7.52	7.51	7.53
Toxaphene Peak 3	8.31	8.30	8.32
Toxaphene Peak 4	8.95	8.94	8.96

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCVIS 180-195949/6 Calibration Date: 12/01/2016 11:10

Instrument ID: CHGC15 Calib Start Date: 10/06/2016 13:08

GC Column: MR-1 ID: 0.53(mm) Calib End Date: 10/06/2016 14:25

Lab File ID: Q1201160000006.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1.731	1.676		0.0242	0.0250	-3.1	20.0
gamma-BHC (Lindane)	Ave	1.492	1.506		0.0252	0.0250	0.9	20.0
beta-BHC	Ave	0.6640	0.6085		0.0229	0.0250	-8.4	20.0
delta-BHC	Ave	1.383	1.442		0.0261	0.0250	4.3	20.0
Heptachlor	Ave	1.245	1.401		0.0281	0.0250	12.5	20.0
Aldrin	Ave	1.251	1.384		0.0277	0.0250	10.6	20.0
Heptachlor epoxide	Ave	1.139	1.211		0.0266	0.0250	6.3	20.0
trans-Chlordane	Ave	1.146	1.226		0.0267	0.0250	7.0	20.0
cis-Chlordane	Ave	1.098	1.162		0.0265	0.0250	5.8	20.0
Endosulfan I	Ave	1.030	1.037		0.0252	0.0250	0.7	20.0
4,4'-DDE	Ave	1.884	1.803		0.0239	0.0250	-4.3	20.0
Dieldrin	Ave	1.884	2.004		0.0266	0.0250	6.4	20.0
Endrin	Ave	1.629	1.657		0.0254	0.0250	1.7	20.0
4,4'-DDD	Ave	1.539	1.605		0.0261	0.0250	4.3	20.0
Endosulfan II	Ave	1.601	1.662		0.0260	0.0250	3.9	20.0
Endrin aldehyde	Ave	1.253	1.195		0.0239	0.0250	-4.6	20.0
4,4'-DDT	Ave	1.279	1.150		0.0225	0.0250	-10.0	20.0
Endosulfan sulfate	Ave	1.434	1.499		0.0261	0.0250	4.5	20.0
Methoxychlor	Ave	0.6325	0.5734		0.0227	0.0250	-9.3	20.0
Endrin ketone	Ave	1.488	1.537		0.0258	0.0250	3.3	20.0
Tetrachloro-m-xylene	Ave	1.269	1.142		0.0225	0.0250	-10.0	20.0
DCB Decachlorobiphenyl (Surr)	Ave	0.7296	0.7319		0.0251	0.0250	0.3	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCVIS 180-195949/6 Calibration Date: 12/01/2016 11:10

Instrument ID: CHGC15 Calib Start Date: 10/06/2016 13:08

GC Column: MR-1 ID: 0.53(mm) Calib End Date: 10/06/2016 14:25

Lab File ID: Q1201160000006.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.10	5.09	5.11
gamma-BHC (Lindane)	5.37	5.36	5.38
beta-BHC	5.54	5.53	5.55
delta-BHC	5.74	5.73	5.75
Heptachlor	5.84	5.83	5.85
Aldrin	6.13	6.12	6.14
Heptachlor epoxide	6.49	6.48	6.50
trans-Chlordane	6.71	6.70	6.72
cis-Chlordane	6.77	6.76	6.78
Endosulfan I	6.82	6.81	6.83
4,4'-DDE	6.93	6.92	6.94
Dieldrin	7.06	7.05	7.07
Endrin	7.26	7.25	7.27
4,4'-DDD	7.39	7.38	7.40
Endosulfan II	7.46	7.45	7.47
Endrin aldehyde	7.58	7.57	7.59
4,4'-DDT	7.67	7.66	7.68
Endosulfan sulfate	7.79	7.78	7.80
Methoxychlor	8.11	8.10	8.12
Endrin ketone	8.24	8.23	8.25
Tetrachloro-m-xylene	4.73	4.72	4.74
DCB Decachlorobiphenyl (Surr)	9.96	9.95	9.97

FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCVIS 180-195949/6 Calibration Date: 12/01/2016 11:10

Instrument ID: CHGC15 Calib Start Date: 10/06/2016 13:08

GC Column: MR-2 ID: 0.53(mm) Calib End Date: 10/06/2016 14:25

Lab File ID: Q1201160000006.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1.801	1.519		0.0211	0.0250	-15.6	20.0
gamma-BHC (Lindane)	Ave	1.531	1.579		0.0258	0.0250	3.2	20.0
beta-BHC	Ave	0.6818	0.6642		0.0244	0.0250	-2.6	20.0
Heptachlor	Ave	1.305	1.329		0.0255	0.0250	1.9	20.0
delta-BHC	Ave	1.400	1.399		0.0250	0.0250	-0.0	20.0
Aldrin	Ave	1.314	1.422		0.0271	0.0250	8.2	20.0
Heptachlor epoxide	Ave	1.164	1.266		0.0272	0.0250	8.7	20.0
trans-Chlordane	Ave	1.200	1.233		0.0257	0.0250	2.7	20.0
cis-Chlordane	Ave	1.157	1.186		0.0256	0.0250	2.4	20.0
Endosulfan I	Ave	1.079	1.129		0.0262	0.0250	4.7	20.0
4,4'-DDE	Ave	1.697	1.363		0.0201	0.0250	-19.7	20.0
Dieldrin	Ave	1.711	1.840		0.0269	0.0250	7.5	20.0
Endrin	Ave	1.415	1.445		0.0255	0.0250	2.1	20.0
4,4'-DDD	Ave	1.356	1.429		0.0264	0.0250	5.4	20.0
Endosulfan II	Ave	1.408	1.362		0.0242	0.0250	-3.3	20.0
4,4'-DDT	Ave	1.169	1.118		0.0239	0.0250	-4.4	20.0
Endrin aldehyde	Ave	1.144	1.074		0.0235	0.0250	-6.1	20.0
Endosulfan sulfate	Ave	1.253	1.311		0.0262	0.0250	4.6	20.0
Methoxychlor	Ave	0.5546	0.4932		0.0222	0.0250	-11.1	20.0
Endrin ketone	Ave	1.255	1.312		0.0261	0.0250	4.5	20.0
Tetrachloro-m-xylene	Ave	1.408	1.223		0.0217	0.0250	-13.1	20.0
DCB Decachlorobiphenyl (Surr)	Ave	0.6988	0.6428		0.0230	0.0250	-8.0	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCVIS 180-195949/6 Calibration Date: 12/01/2016 11:10

Instrument ID: CHGC15 Calib Start Date: 10/06/2016 13:08

GC Column: MR-2 ID: 0.53(mm) Calib End Date: 10/06/2016 14:25

Lab File ID: Q1201160000006.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.10	5.09	5.11
gamma-BHC (Lindane)	5.40	5.39	5.41
beta-BHC	5.64	5.63	5.65
Heptachlor	5.71	5.70	5.72
delta-BHC	5.86	5.85	5.87
Aldrin	5.97	5.96	5.98
Heptachlor epoxide	6.41	6.40	6.42
trans-Chlordane	6.63	6.62	6.64
cis-Chlordane	6.69	6.68	6.70
Endosulfan I	6.76	6.75	6.77
4,4'-DDE	6.83	6.82	6.84
Dieldrin	7.00	6.99	7.01
Endrin	7.26	7.25	7.27
4,4'-DDD	7.35	7.34	7.36
Endosulfan II	7.52	7.51	7.53
4,4'-DDT	7.59	7.58	7.60
Endrin aldehyde	7.69	7.68	7.70
Endosulfan sulfate	7.89	7.88	7.90
Methoxychlor	8.12	8.11	8.13
Endrin ketone	8.43	8.42	8.44
Tetrachloro-m-xylene	4.65	4.64	4.66
DCB Decachlorobiphenyl (Surr)	9.87	9.86	9.88

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-195769/1-A

Matrix: Solid | Lab File ID: Q1201160000016.D

Analysis Method: 8081B_LL | Date Collected:

Extraction Method: 3541 | Date Extracted: 11/30/2016 04:24

Sample wt/vol: 15.0(g) | Date Analyzed: 12/01/2016 13:44

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: MR-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195949 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
309-00-2	Aldrin	0.00000880	U	0.0000833	0.00000880
319-84-6	alpha-BHC	0.0000245	U	0.0000833	0.0000245
319-85-7	beta-BHC	0.0000187	U	0.0000833	0.0000187
319-86-8	delta-BHC	0.0000297	U	0.0000833	0.0000297
58-89-9	gamma-BHC (Lindane)	0.0000172	U	0.0000833	0.0000172
5103-71-9	cis-Chlordane	0.0000134	U	0.0000833	0.0000134
5103-74-2	trans-Chlordane	0.00000650	U	0.0000833	0.00000650
72-54-8	4,4'-DDD	0.00000850	U	0.0000833	0.00000850
72-55-9	4,4'-DDE	0.0000265	U	0.0000833	0.0000265
50-29-3	4,4'-DDT	0.00000850	U	0.0000833	0.00000850
60-57-1	Dieldrin	0.00000790	U	0.0000833	0.00000790
959-98-8	Endosulfan I	0.00000530	U	0.0000833	0.00000530
33213-65-9	Endosulfan II	0.0000255	U	0.0000833	0.0000255
1031-07-8	Endosulfan sulfate	0.0000106	U	0.0000833	0.0000106
72-20-8	Endrin	0.0000243	U	0.0000833	0.0000243
7421-93-4	Endrin aldehyde	0.0000245	U	0.0000833	0.0000245
53494-70-5	Endrin ketone	0.0000278	U	0.0000833	0.0000278
76-44-8	Heptachlor	0.00000720	U	0.0000833	0.00000720
1024-57-3	Heptachlor epoxide	0.0000100	U	0.0000833	0.0000100
72-43-5	Methoxychlor	0.0000242	U	0.0000833	0.0000242
8001-35-2	Toxaphene	0.00274	U	0.00333	0.00274

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	80		32-114
2051-24-3	DCB Decachlorobiphenyl (Surr)	99		26-143

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-61122-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 180-195769/1-A
Matrix: Solid
Lab File ID: Q1201160000016.D
Analysis Method: 8081B_LL
Date Collected:
Extraction Method: 3541
Date Extracted: 11/30/2016 04:24
Sample wt/vol: 15.0(g)
Date Analyzed: 12/01/2016 13:44
Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: MR-2
ID: 0.53(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 195949
Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	76		32-114
2051-24-3	DCB Decachlorobiphenyl (Surr)	92		26-143

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-195769/2-A

Matrix: Solid | Lab File ID: Q1201160000026.D

Analysis Method: 8081B_LL | Date Collected:

Extraction Method: 3541 | Date Extracted: 11/30/2016 04:24

Sample wt/vol: 15.0(g) | Date Analyzed: 12/01/2016 16:19

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: MR-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195949 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
309-00-2	Aldrin	0.001366		0.0000833	0.00000880
319-84-6	alpha-BHC	0.001256		0.0000833	0.0000245
319-85-7	beta-BHC	0.001220		0.0000833	0.0000187
319-86-8	delta-BHC	0.0007284		0.0000833	0.0000297
58-89-9	gamma-BHC (Lindane)	0.001300		0.0000833	0.0000172
5103-71-9	cis-Chlordane	0.001356		0.0000833	0.0000134
5103-74-2	trans-Chlordane	0.001394		0.0000833	0.00000650
72-54-8	4,4'-DDD	0.001751		0.0000833	0.00000850
72-55-9	4,4'-DDE	0.001434		0.0000833	0.0000265
50-29-3	4,4'-DDT	0.0007379		0.0000833	0.00000850
60-57-1	Dieldrin	0.001539		0.0000833	0.00000790
959-98-8	Endosulfan I	0.001329		0.0000833	0.00000530
33213-65-9	Endosulfan II	0.001407		0.0000833	0.0000255
1031-07-8	Endosulfan sulfate	0.001271		0.0000833	0.0000106
72-20-8	Endrin	0.001437		0.0000833	0.0000243
7421-93-4	Endrin aldehyde	0.001316		0.0000833	0.0000245
53494-70-5	Endrin ketone	0.001301		0.0000833	0.0000278
76-44-8	Heptachlor	0.001367		0.0000833	0.00000720
1024-57-3	Heptachlor epoxide	0.001368		0.0000833	0.0000100
72-43-5	Methoxychlor	0.0008964		0.0000833	0.0000242

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	83		32-114
2051-24-3	DCB Decachlorobiphenyl (Surr)	91		26-143

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-61122-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 180-195769/2-A
Matrix: Solid
Lab File ID: Q1201160000026.D
Analysis Method: 8081B_LL
Date Collected:
Extraction Method: 3541
Date Extracted: 11/30/2016 04:24
Sample wt/vol: 15.0(g)
Date Analyzed: 12/01/2016 16:19
Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: MR-2 ID: 0.53(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 195949
Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	74		32-114
2051-24-3	DCB Decachlorobiphenyl (Surr)	99		26-143

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CHGC15 Start Date: 09/24/2016 09:01

Analysis Batch Number: 189037 End Date: 09/24/2016 20:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 180-189037/1		09/24/2016 09:01	1		MR-1 0.53(mm)
PEM 180-189037/1		09/24/2016 09:01	1		MR-2 0.53(mm)
IC 180-189037/2		09/24/2016 09:17	1	Q0924160000002.D	MR-1 0.53(mm)
IC 180-189037/2		09/24/2016 09:17	1	Q0924160000002.D	MR-2 0.53(mm)
IC 180-189037/3		09/24/2016 09:32	1	Q0924160000003.D	MR-1 0.53(mm)
IC 180-189037/3		09/24/2016 09:32	1	Q0924160000003.D	MR-2 0.53(mm)
IC 180-189037/4		09/24/2016 09:47	1	Q0924160000004.D	MR-1 0.53(mm)
IC 180-189037/4		09/24/2016 09:47	1	Q0924160000004.D	MR-2 0.53(mm)
IC 180-189037/5		09/24/2016 10:03	1	Q0924160000005.D	MR-1 0.53(mm)
IC 180-189037/5		09/24/2016 10:03	1	Q0924160000005.D	MR-2 0.53(mm)
IC 180-189037/6		09/24/2016 10:18	1	Q0924160000006.D	MR-1 0.53(mm)
IC 180-189037/6		09/24/2016 10:18	1	Q0924160000006.D	MR-2 0.53(mm)
IC 180-189037/7		09/24/2016 10:34	1		MR-1 0.53(mm)
IC 180-189037/7		09/24/2016 10:34	1		MR-2 0.53(mm)
IC 180-189037/8		09/24/2016 10:49	1		MR-1 0.53(mm)
IC 180-189037/8		09/24/2016 10:49	1		MR-2 0.53(mm)
IC 180-189037/9		09/24/2016 11:05	1		MR-1 0.53(mm)
IC 180-189037/9		09/24/2016 11:05	1		MR-2 0.53(mm)
IC 180-189037/10		09/24/2016 11:20	1		MR-1 0.53(mm)
IC 180-189037/10		09/24/2016 11:20	1		MR-2 0.53(mm)
IC 180-189037/11		09/24/2016 11:36	1		MR-1 0.53(mm)
IC 180-189037/11		09/24/2016 11:36	1		MR-2 0.53(mm)
IC 180-189037/12		09/24/2016 11:51	1		MR-1 0.53(mm)
IC 180-189037/12		09/24/2016 11:51	1		MR-2 0.53(mm)
IC 180-189037/13		09/24/2016 12:07	1		MR-1 0.53(mm)
IC 180-189037/13		09/24/2016 12:07	1		MR-2 0.53(mm)
IC 180-189037/14		09/24/2016 12:22	1		MR-1 0.53(mm)
IC 180-189037/14		09/24/2016 12:22	1		MR-2 0.53(mm)
IC 180-189037/15		09/24/2016 12:38	1		MR-1 0.53(mm)
IC 180-189037/15		09/24/2016 12:38	1		MR-2 0.53(mm)
IC 180-189037/16		09/24/2016 12:53	1		MR-1 0.53(mm)
IC 180-189037/16		09/24/2016 12:53	1		MR-2 0.53(mm)
IC 180-189037/17		09/24/2016 13:09	1		MR-1 0.53(mm)
IC 180-189037/17		09/24/2016 13:09	1		MR-2 0.53(mm)
IC 180-189037/18		09/24/2016 13:24	1		MR-1 0.53(mm)
IC 180-189037/18		09/24/2016 13:24	1		MR-2 0.53(mm)
IC 180-189037/19		09/24/2016 13:40	1		MR-1 0.53(mm)
IC 180-189037/19		09/24/2016 13:40	1		MR-2 0.53(mm)
IC 180-189037/20		09/24/2016 13:55	1		MR-1 0.53(mm)
IC 180-189037/20		09/24/2016 13:55	1		MR-2 0.53(mm)
IC 180-189037/21		09/24/2016 14:11	1		MR-1 0.53(mm)

8081B_LL

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CHGC15 Start Date: 09/24/2016 09:01

Analysis Batch Number: 189037 End Date: 09/24/2016 20:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 180-189037/21		09/24/2016 14:11	1		MR-2 0.53(mm)
IC 180-189037/22		09/24/2016 14:26	1		MR-1 0.53(mm)
IC 180-189037/22		09/24/2016 14:26	1		MR-2 0.53(mm)
IC 180-189037/23		09/24/2016 14:41	1		MR-1 0.53(mm)
IC 180-189037/23		09/24/2016 14:41	1		MR-2 0.53(mm)
IC 180-189037/24		09/24/2016 14:57	1		MR-1 0.53(mm)
IC 180-189037/24		09/24/2016 14:57	1		MR-2 0.53(mm)
IC 180-189037/25		09/24/2016 15:12	1		MR-1 0.53(mm)
IC 180-189037/25		09/24/2016 15:12	1		MR-2 0.53(mm)
ICIS 180-189037/26		09/24/2016 15:28	1		MR-1 0.53(mm)
ICIS 180-189037/26		09/24/2016 15:28	1		MR-2 0.53(mm)
IC 180-189037/27		09/24/2016 15:43	1		MR-1 0.53(mm)
IC 180-189037/27		09/24/2016 15:43	1		MR-2 0.53(mm)
IC 180-189037/28		09/24/2016 15:59	1		MR-1 0.53(mm)
IC 180-189037/28		09/24/2016 15:59	1		MR-2 0.53(mm)
IC 180-189037/29		09/24/2016 16:14	1		MR-1 0.53(mm)
IC 180-189037/29		09/24/2016 16:14	1		MR-2 0.53(mm)
ICV 180-189037/30		09/24/2016 16:30	1		MR-1 0.53(mm)
ICV 180-189037/30		09/24/2016 16:30	1		MR-2 0.53(mm)
ICV 180-189037/31		09/24/2016 16:45	1		MR-1 0.53(mm)
ICV 180-189037/31		09/24/2016 16:45	1		MR-2 0.53(mm)
ICV 180-189037/32		09/24/2016 17:01	1		MR-1 0.53(mm)
ICV 180-189037/32		09/24/2016 17:01	1		MR-2 0.53(mm)
ICV 180-189037/33		09/24/2016 17:16	1		MR-1 0.53(mm)
ICV 180-189037/33		09/24/2016 17:16	1		MR-2 0.53(mm)
ICV 180-189037/34		09/24/2016 17:32	1		MR-1 0.53(mm)
ICV 180-189037/34		09/24/2016 17:32	1		MR-2 0.53(mm)
PEM 180-189037/35		09/24/2016 17:47	1		MR-1 0.53(mm)
PEM 180-189037/35		09/24/2016 17:47	1		MR-2 0.53(mm)
ZZZZZ		09/24/2016 19:20	1		MR-1 0.53(mm)
ZZZZZ		09/24/2016 19:20	1		MR-2 0.53(mm)
ZZZZZ		09/24/2016 19:36	1		MR-1 0.53(mm)
ZZZZZ		09/24/2016 19:36	1		MR-2 0.53(mm)
ZZZZZ		09/24/2016 19:51	1		MR-1 0.53(mm)
ZZZZZ		09/24/2016 19:51	1		MR-2 0.53(mm)
ZZZZZ		09/24/2016 20:07	1		MR-1 0.53(mm)
ZZZZZ		09/24/2016 20:07	1		MR-2 0.53(mm)
ZZZZZ		09/24/2016 20:22	1		MR-1 0.53(mm)
ZZZZZ		09/24/2016 20:22	1		MR-2 0.53(mm)
ZZZZZ		09/24/2016 20:38	1		MR-1 0.53(mm)
ZZZZZ		09/24/2016 20:38	1		MR-2 0.53(mm)

8081B_LL

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CHGC15 Start Date: 10/06/2016 11:35

Analysis Batch Number: 190365 End Date: 10/06/2016 20:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 180-190365/1		10/06/2016 11:35	1		MR-1 0.53(mm)
PEM 180-190365/1		10/06/2016 11:35	1		MR-2 0.53(mm)
IC 180-190365/2		10/06/2016 11:51	1		MR-1 0.53(mm)
IC 180-190365/2		10/06/2016 11:51	1		MR-2 0.53(mm)
IC 180-190365/3		10/06/2016 12:06	1		MR-1 0.53(mm)
IC 180-190365/3		10/06/2016 12:06	1		MR-2 0.53(mm)
IC 180-190365/4		10/06/2016 12:22	1		MR-1 0.53(mm)
IC 180-190365/4		10/06/2016 12:22	1		MR-2 0.53(mm)
IC 180-190365/5		10/06/2016 12:37	1		MR-1 0.53(mm)
IC 180-190365/5		10/06/2016 12:37	1		MR-2 0.53(mm)
IC 180-190365/6		10/06/2016 12:53	1		MR-1 0.53(mm)
IC 180-190365/6		10/06/2016 12:53	1		MR-2 0.53(mm)
IC 180-190365/7		10/06/2016 13:08	1	Q100616A0000007 .D	MR-1 0.53(mm)
IC 180-190365/7		10/06/2016 13:08	1	Q100616A0000007 .D	MR-2 0.53(mm)
IC 180-190365/8		10/06/2016 13:24	1	Q100616A0000008 .D	MR-1 0.53(mm)
IC 180-190365/8		10/06/2016 13:24	1	Q100616A0000008 .D	MR-2 0.53(mm)
ICIS 180-190365/9		10/06/2016 13:39	1	Q100616A0000009 .D	MR-1 0.53(mm)
ICIS 180-190365/9		10/06/2016 13:39	1	Q100616A0000009 .D	MR-2 0.53(mm)
IC 180-190365/10		10/06/2016 13:55	1	Q100616A0000010 .D	MR-1 0.53(mm)
IC 180-190365/10		10/06/2016 13:55	1	Q100616A0000010 .D	MR-2 0.53(mm)
IC 180-190365/11		10/06/2016 14:10	1	Q100616A0000011 .D	MR-1 0.53(mm)
IC 180-190365/11		10/06/2016 14:10	1	Q100616A0000011 .D	MR-2 0.53(mm)
IC 180-190365/12		10/06/2016 14:25	1	Q100616A0000012 .D	MR-1 0.53(mm)
IC 180-190365/12		10/06/2016 14:25	1	Q100616A0000012 .D	MR-2 0.53(mm)
ICV 180-190365/13		10/06/2016 14:41	1		MR-1 0.53(mm)
ICV 180-190365/13		10/06/2016 14:41	1		MR-2 0.53(mm)
ICV 180-190365/14		10/06/2016 14:56	1		MR-1 0.53(mm)
ICV 180-190365/14		10/06/2016 14:56	1		MR-2 0.53(mm)
CCV 180-190365/15		10/06/2016 15:12	1		MR-1 0.53(mm)
CCV 180-190365/15		10/06/2016 15:12	1		MR-2 0.53(mm)
ZZZZZ		10/06/2016 15:27	1		MR-1 0.53(mm)
ZZZZZ		10/06/2016 15:27	1		MR-2 0.53(mm)
ZZZZZ		10/06/2016 15:43	1		MR-1 0.53(mm)
ZZZZZ		10/06/2016 15:43	1		MR-2 0.53(mm)
ZZZZZ		10/06/2016 15:58	1		MR-1 0.53(mm)
ZZZZZ		10/06/2016 15:58	1		MR-2 0.53(mm)
ZZZZZ		10/06/2016 16:14	1		MR-1 0.53(mm)
ZZZZZ		10/06/2016 16:14	1		MR-2 0.53(mm)
ZZZZZ		10/06/2016 16:29	1		MR-1 0.53(mm)
ZZZZZ		10/06/2016 16:29	1		MR-2 0.53(mm)

8081B_LL

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CHGC15 Start Date: 10/06/2016 11:35

Analysis Batch Number: 190365 End Date: 10/06/2016 20:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		10/06/2016 16:45	1		MR-1 0.53(mm)
ZZZZZ		10/06/2016 16:45	1		MR-2 0.53(mm)
ZZZZZ		10/06/2016 17:00	1		MR-1 0.53(mm)
ZZZZZ		10/06/2016 17:00	1		MR-2 0.53(mm)
ZZZZZ		10/06/2016 17:16	1		MR-1 0.53(mm)
ZZZZZ		10/06/2016 17:16	1		MR-2 0.53(mm)
ZZZZZ		10/06/2016 17:31	1		MR-1 0.53(mm)
ZZZZZ		10/06/2016 17:31	1		MR-2 0.53(mm)
ZZZZZ		10/06/2016 17:47	1		MR-1 0.53(mm)
ZZZZZ		10/06/2016 17:47	1		MR-2 0.53(mm)
ZZZZZ		10/06/2016 18:02	1		MR-1 0.53(mm)
ZZZZZ		10/06/2016 18:02	1		MR-2 0.53(mm)
ZZZZZ		10/06/2016 18:18	1		MR-1 0.53(mm)
ZZZZZ		10/06/2016 18:18	1		MR-2 0.53(mm)
ZZZZZ		10/06/2016 18:33	1		MR-1 0.53(mm)
ZZZZZ		10/06/2016 18:33	1		MR-2 0.53(mm)
ZZZZZ		10/06/2016 18:49	1		MR-1 0.53(mm)
ZZZZZ		10/06/2016 18:49	1		MR-2 0.53(mm)
ZZZZZ		10/06/2016 19:04	1		MR-1 0.53(mm)
ZZZZZ		10/06/2016 19:04	1		MR-2 0.53(mm)
ZZZZZ		10/06/2016 19:19	1		MR-1 0.53(mm)
ZZZZZ		10/06/2016 19:19	1		MR-2 0.53(mm)
ZZZZZ		10/06/2016 19:35	1		MR-1 0.53(mm)
ZZZZZ		10/06/2016 19:35	1		MR-2 0.53(mm)
ZZZZZ		10/06/2016 19:50	1		MR-1 0.53(mm)
ZZZZZ		10/06/2016 19:50	1		MR-2 0.53(mm)
ZZZZZ		10/06/2016 20:06	1		MR-1 0.53(mm)
ZZZZZ		10/06/2016 20:06	1		MR-2 0.53(mm)

8081B_LL

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CHGC15 Start Date: 12/01/2016 09:53

Analysis Batch Number: 195949 End Date: 12/01/2016 22:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 180-195949/1		12/01/2016 09:53	1	Q1201160000001.D	MR-1 0.53(mm)
PEM 180-195949/1		12/01/2016 09:53	1	Q1201160000001.D	MR-2 0.53(mm)
CCV 180-195949/2		12/01/2016 10:08	1	Q1201160000002.D	MR-1 0.53(mm)
CCV 180-195949/2		12/01/2016 10:08	1	Q1201160000002.D	MR-2 0.53(mm)
CCV 180-195949/3		12/01/2016 10:23	1	Q1201160000003.D	MR-1 0.53(mm)
CCV 180-195949/3		12/01/2016 10:23	1	Q1201160000003.D	MR-2 0.53(mm)
CCV 180-195949/4		12/01/2016 10:39	1	Q1201160000004.D	MR-1 0.53(mm)
CCV 180-195949/4		12/01/2016 10:39	1	Q1201160000004.D	MR-2 0.53(mm)
CCV 180-195949/5		12/01/2016 10:54	1	Q1201160000005.D	MR-1 0.53(mm)
CCV 180-195949/5		12/01/2016 10:54	1	Q1201160000005.D	MR-2 0.53(mm)
CCVIS 180-195949/6		12/01/2016 11:10	1	Q1201160000006.D	MR-1 0.53(mm)
CCVIS 180-195949/6		12/01/2016 11:10	1	Q1201160000006.D	MR-2 0.53(mm)
ZZZZZ		12/01/2016 11:25	20		MR-1 0.53(mm)
ZZZZZ		12/01/2016 11:25	20		MR-2 0.53(mm)
ZZZZZ		12/01/2016 11:41	20		MR-1 0.53(mm)
ZZZZZ		12/01/2016 11:41	20		MR-2 0.53(mm)
MB 180-195769/1-A		12/01/2016 13:44	1	Q1201160000016.D	MR-1 0.53(mm)
MB 180-195769/1-A		12/01/2016 13:44	1	Q1201160000016.D	MR-2 0.53(mm)
ZZZZZ		12/01/2016 14:00	20		MR-1 0.53(mm)
ZZZZZ		12/01/2016 14:00	20		MR-2 0.53(mm)
ZZZZZ		12/01/2016 14:15	20		MR-1 0.53(mm)
ZZZZZ		12/01/2016 14:15	20		MR-2 0.53(mm)
ZZZZZ		12/01/2016 14:31	20		MR-1 0.53(mm)
ZZZZZ		12/01/2016 14:31	20		MR-2 0.53(mm)
ZZZZZ		12/01/2016 14:46	5		MR-1 0.53(mm)
ZZZZZ		12/01/2016 14:46	5		MR-2 0.53(mm)
ZZZZZ		12/01/2016 15:01	5		MR-1 0.53(mm)
ZZZZZ		12/01/2016 15:01	5		MR-2 0.53(mm)
180-61122-1		12/01/2016 15:17	5	Q1201160000022.D	MR-1 0.53(mm)
180-61122-1		12/01/2016 15:17	5	Q1201160000022.D	MR-2 0.53(mm)
180-61122-2		12/01/2016 15:32	5	Q1201160000023.D	MR-1 0.53(mm)
180-61122-2		12/01/2016 15:32	5	Q1201160000023.D	MR-2 0.53(mm)
180-61122-3		12/01/2016 15:48	5	Q1201160000024.D	MR-1 0.53(mm)
180-61122-3		12/01/2016 15:48	5	Q1201160000024.D	MR-2 0.53(mm)
180-61122-4		12/01/2016 16:03	5	Q1201160000025.D	MR-1 0.53(mm)
180-61122-4		12/01/2016 16:03	5	Q1201160000025.D	MR-2 0.53(mm)

8081B_LL

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CHGC15 Start Date: 12/01/2016 09:53

Analysis Batch Number: 195949 End Date: 12/01/2016 22:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
LCS 180-195769/2-A		12/01/2016 16:19	1	Q1201160000026.D	MR-1 0.53(mm)
LCS 180-195769/2-A		12/01/2016 16:19	1	Q1201160000026.D	MR-2 0.53(mm)
PEM 180-195949/27		12/01/2016 16:34	1		MR-1 0.53(mm)
PEM 180-195949/27		12/01/2016 16:34	1		MR-2 0.53(mm)
CCV 180-195949/28		12/01/2016 16:50	1		MR-1 0.53(mm)
CCV 180-195949/28		12/01/2016 16:50	1		MR-2 0.53(mm)
CCV 180-195949/29		12/01/2016 17:05	1		MR-1 0.53(mm)
CCV 180-195949/29		12/01/2016 17:05	1		MR-2 0.53(mm)
CCVIS 180-195949/30		12/01/2016 17:21	1		MR-1 0.53(mm)
CCVIS 180-195949/30		12/01/2016 17:21	1		MR-2 0.53(mm)
ZZZZZ		12/01/2016 17:36	1		MR-1 0.53(mm)
ZZZZZ		12/01/2016 17:36	1		MR-2 0.53(mm)
ZZZZZ		12/01/2016 17:51	25		MR-1 0.53(mm)
ZZZZZ		12/01/2016 17:51	25		MR-2 0.53(mm)
ZZZZZ		12/01/2016 18:07	25		MR-1 0.53(mm)
ZZZZZ		12/01/2016 18:07	25		MR-2 0.53(mm)
ZZZZZ		12/01/2016 18:22	25		MR-1 0.53(mm)
ZZZZZ		12/01/2016 18:22	25		MR-2 0.53(mm)
ZZZZZ		12/01/2016 18:38	25		MR-1 0.53(mm)
ZZZZZ		12/01/2016 18:38	25		MR-2 0.53(mm)
ZZZZZ		12/01/2016 18:53	25		MR-1 0.53(mm)
ZZZZZ		12/01/2016 18:53	25		MR-2 0.53(mm)
ZZZZZ		12/01/2016 19:09	25		MR-1 0.53(mm)
ZZZZZ		12/01/2016 19:09	25		MR-2 0.53(mm)
ZZZZZ		12/01/2016 19:24	1		MR-1 0.53(mm)
ZZZZZ		12/01/2016 19:24	1		MR-2 0.53(mm)
ZZZZZ		12/01/2016 19:39	5		MR-1 0.53(mm)
ZZZZZ		12/01/2016 19:39	5		MR-2 0.53(mm)
ZZZZZ		12/01/2016 19:55	1		MR-1 0.53(mm)
ZZZZZ		12/01/2016 19:55	1		MR-2 0.53(mm)
ZZZZZ		12/01/2016 20:10	1		MR-1 0.53(mm)
ZZZZZ		12/01/2016 20:10	1		MR-2 0.53(mm)
ZZZZZ		12/01/2016 20:26	1		MR-1 0.53(mm)
ZZZZZ		12/01/2016 20:26	1		MR-2 0.53(mm)
ZZZZZ		12/01/2016 20:41	1		MR-1 0.53(mm)
ZZZZZ		12/01/2016 20:41	1		MR-2 0.53(mm)
ZZZZZ		12/01/2016 20:57	25		MR-1 0.53(mm)
ZZZZZ		12/01/2016 20:57	25		MR-2 0.53(mm)
ZZZZZ		12/01/2016 21:12	1		MR-1 0.53(mm)
ZZZZZ		12/01/2016 21:12	1		MR-2 0.53(mm)
ZZZZZ		12/01/2016 21:28	1		MR-1 0.53(mm)
ZZZZZ		12/01/2016 21:28	1		MR-2 0.53(mm)
ZZZZZ		12/01/2016 21:43	1		MR-1 0.53(mm)
ZZZZZ		12/01/2016 21:43	1		MR-2 0.53(mm)

8081B_LL

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CHGC15 Start Date: 12/01/2016 09:53

Analysis Batch Number: 195949 End Date: 12/01/2016 22:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/01/2016 21:59	1		MR-1 0.53(mm)
ZZZZZ		12/01/2016 21:59	1		MR-2 0.53(mm)
ZZZZZ		12/01/2016 22:14	1		MR-1 0.53(mm)
ZZZZZ		12/01/2016 22:14	1		MR-2 0.53(mm)

8081B_LL

PESTICIDES BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Batch Number: 195769 Batch Start Date: 11/30/16 04:24 Batch Analyst: Geehring, Kevin

Batch Method: 3541 Batch End Date: 11/30/16 09:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	InitialAmount	OP/PESTPCBRTS 00006	OPPESTMATRIX 00019		
MB 180-195769/1		3541, 8081B_LL		1.0 mL	15.0 g	100 uL			
LCS 180-195769/2		3541, 8081B_LL		1.0 mL	15.0 g	100 uL	25 uL		
180-61122-A-1	BGSB22-(0.0-0.5) -161122-S	3541, 8081B_LL	T	1.0 mL	15.1 g	100 uL			
180-61122-A-2	BGSB22-(1-2) -161122-S	3541, 8081B_LL	T	1.0 mL	15.2 g	100 uL			
180-61122-A-3	BGSB10-(0.0-0.5) -161122-S	3541, 8081B_LL	T	1.0 mL	15.0 g	100 uL			
180-61122-A-4	BGSB10-(1-2) -161122-S	3541, 8081B_LL	T	1.0 mL	15.0 g	100 uL			

Batch Notes	
Balance ID	T0358722
Batch Comment	sox # 2 - 3 - 4
Concentrator ID	bp
Exchange Solvent ID	2142740
Exchange Solvent Name	Hexane
Magnesium Sulfate ID	2144283
N-evap ID	2
Na2SO4 ID	2119020
Person's name who did the prep	kg kg bp
Solvent	Hexane/acetone
Solvent Lot #	2116480
Uncorrected N-evap Temperature	32 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8151A

Herbicides (GC) by Method 8151A

FORM II
HERBICIDES SURROGATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RTX-50 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	DCPAA1 #	DCPAA2 #
BGSB22-(0.0-0.5) -161122-S	180-61122-1	46	48
BGSB22-(1-2) -161122-S	180-61122-2	45	48
BGSB10-(0.0-0.5) -161122-S	180-61122-3	41	44
BGSB10-(1-2) -161122-S	180-61122-4	47	50
	MB 180-195524/1-A	43	46
	LCS 180-195524/2-A	99	103

	QC LIMITS
DCPAA = 2,4-Dichlorophenylacetic acid	19-122

Column to be used to flag recovery values

FORM II 8151A

FORM III
HERBICIDES LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 1130160000015.D

Lab ID: LCS 180-195524/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
2,4,5-T	0.100	0.1277	128	15-114	*
2,4-D	0.400	0.4161	104	10-103	*
Silvex (2,4,5-TP)	0.100	0.1363	136	27-126	*
Dalapon	0.400	0.3055	76	10-123	
2,4-DB	0.400	0.5835	146	15-123	*
Dicamba	0.200	0.1857	93	24-130	
Dichlorprop	0.400	0.4641	116	30-120	
Dinoseb	0.400	0.6901	173	10-150	*
MCPA	40.0	53.07	133	10-132	*
MCPP	40.0	67.02	168	10-150	*

Column to be used to flag recovery and RPD values

FORM III 8151A

FORM IV
HERBICIDES METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: MB 180-195524/1-A

Matrix: Solid Date Extracted: 11/27/2016 09:29

Lab File ID:(1) 1130160000006.D Lab File ID:(2) 1130160000006.D

Date Analyzed:(1) 11/30/2016 14:50 Date Analyzed:(2) 11/30/2016 14:50

Instrument ID:(1) CGC1 Instrument ID:(2) CGC1

GC Column:(1) RTX-50 ID: 0.53(mm) GC Column:(2) RTX-1701 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
BGSB22-(0.0-0.5) -161122-S	180-61122-1	11/30/2016 15:14	11/30/2016 15:14
BGSB22-(1-2)-161122-S	180-61122-2	11/30/2016 15:38	11/30/2016 15:38
BGSB10-(0.0-0.5) -161122-S	180-61122-3	11/30/2016 16:02	11/30/2016 16:02
BGSB10-(1-2)-161122-S	180-61122-4	11/30/2016 16:25	11/30/2016 16:25
	LCS 180-195524/2-A	11/30/2016 18:25	11/30/2016 18:25

FORM VIII
HERBICIDES ANALYTICAL SEQUENCE

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Sample No.: CCVRT 180-195866/1 Date Analyzed: 11/30/2016 14:26

Instrument ID: CGC1 GC Column: RTX-50 ID: 0.53(mm)

Lab File ID (Standard): 1130160000005.D Heated Purge: (Y/N) N

Calibration ID: 32961

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

				DCPAA RT #		
CONTINUING CALIBRATION SURROGATE				8.41		
UPPER LIMIT				8.44		
LOWER LIMIT				8.38		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 180-195866/1		11/30/2016 14:26	1130160000005.D	8.41		
MB 180-195524/1-A		11/30/2016 14:50	1130160000006.D	8.41		
180-61122-1	BGSB22-(0.0-0.5) -161122-S	11/30/2016 15:14	1130160000007.D	8.41		
180-61122-2	BGSB22-(1-2)-161122-S	11/30/2016 15:38	1130160000008.D	8.41		
180-61122-3	BGSB10-(0.0-0.5) -161122-S	11/30/2016 16:02	1130160000009.D	8.41		
180-61122-4	BGSB10-(1-2)-161122-S	11/30/2016 16:25	1130160000010.D	8.41		
LCS 180-195524/2-A		11/30/2016 18:25	1130160000015.D	8.41		
CCV 180-195866/12		11/30/2016 18:49	1130160000016.D	8.41		
CCV 180-195866/23		11/30/2016 23:10	1130160000027.D	8.41		

DCPAA = 2,4-Dichlorophenylacetic acid

DCPAA RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8151A

FORM VIII
HERBICIDES ANALYTICAL SEQUENCE

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Sample No.: CCVRT 180-195866/1 Date Analyzed: 11/30/2016 14:26

Instrument ID: CGC1 GC Column: RTX-1701 ID: 0.53(mm)

Lab File ID (Standard): 1130160000005.D Heated Purge: (Y/N) N

Calibration ID: 32962

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

				DCPAA RT #		
CONTINUING CALIBRATION SURROGATE				8.10		
UPPER LIMIT				8.13		
LOWER LIMIT				8.07		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 180-195866/1		11/30/2016 14:26	1130160000005.D	8.10		
MB 180-195524/1-A		11/30/2016 14:50	1130160000006.D	8.10		
180-61122-1	BGSB22-(0.0-0.5) -161122-S	11/30/2016 15:14	1130160000007.D	8.10		
180-61122-2	BGSB22-(1-2)-161122-S	11/30/2016 15:38	1130160000008.D	8.10		
180-61122-3	BGSB10-(0.0-0.5) -161122-S	11/30/2016 16:02	1130160000009.D	8.10		
180-61122-4	BGSB10-(1-2)-161122-S	11/30/2016 16:25	1130160000010.D	8.10		
LCS 180-195524/2-A		11/30/2016 18:25	1130160000015.D	8.10		
CCV 180-195866/12		11/30/2016 18:49	1130160000016.D	8.10		
CCV 180-195866/23		11/30/2016 23:10	1130160000027.D	8.10		

DCPAA = 2,4-Dichlorophenylacetic acid

DCPAA RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8151A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 180-195524/2-A

Instrument ID (1): CGC1 Instrument ID (2): CGC1

Date Analyzed (1): 11/30/2016 18:25 Date Analyzed (2): 11/30/2016 18:25

GC Column (1): RTX-50 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Dalapon	1		2.38	2.34	2.40	0.3055		11.1
	2		2.46	2.43	2.49	0.3412		
MCPP	1		8.62	8.58	8.64	67.02		25.9
	2		8.52	8.49	8.55	51.66		
Dicamba	1		8.71	8.68	8.74	0.1857		10.5
	2		8.36	8.34	8.40	0.2064		
MCPA	1		9.04	9.01	9.07	53.07		23.3
	2		8.82	8.79	8.85	41.98		
Dichlorprop	1		9.32	9.29	9.35	0.4641		8.5
	2		9.19	9.16	9.22	0.5053		
2,4-D	1		9.82	9.78	9.84	0.4161		21.2
	2		9.58	9.55	9.61	0.5148		
Silvex (2,4,5-TP)	1		10.50	10.47	10.53	0.1363		3.7
	2		10.35	10.32	10.38	0.1414		
2,4,5-T	1		11.05	11.02	11.08	0.1277		11.1
	2		10.80	10.77	10.83	0.1428		
Dinoseb	1		11.30	11.25	11.35	0.6901		19.0
	2		11.85	11.82	11.88	0.8346		
2,4-DB	1		11.43	11.40	11.46	0.5835		2.4
	2		11.23	11.20	11.26	0.5976		

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(0.0-0.5)-161122-S | Lab Sample ID: 180-61122-1

Matrix: Solid | Lab File ID: 1130160000007.D

Analysis Method: 8151A | Date Collected: 11/22/2016 09:35

Extraction Method: 8151A | Date Extracted: 11/27/2016 09:29

Sample wt/vol: 50.0(g) | Date Analyzed: 11/30/2016 15:14

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RTX-50 ID: 0.53(mm)

% Moisture: 8.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195866 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-76-5	2,4,5-T	0.00273	U *	0.0218	0.00273
94-75-7	2,4-D	0.00595	U *	0.0870	0.00595
93-72-1	Silvex (2,4,5-TP)	0.00229	U *	0.0218	0.00229
75-99-0	Dalapon	0.00772	U	0.0979	0.00772
94-82-6	2,4-DB	0.00666	U *	0.0870	0.00666
1918-00-9	Dicamba	0.00521	U	0.0435	0.00521
120-36-5	Dichlorprop	0.0103	U	0.0870	0.0103
88-85-7	Dinoseb	0.00495	U *	0.0131	0.00495
94-74-6	MCPA	1.79	U *	8.70	1.79
93-65-2	MCPP	1.75	U *	8.70	1.75

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	46		19-122

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(0.0-0.5)-161122-S Lab Sample ID: 180-61122-1

Matrix: Solid Lab File ID: 1130160000007.D

Analysis Method: 8151A Date Collected: 11/22/2016 09:35

Extraction Method: 8151A Date Extracted: 11/27/2016 09:29

Sample wt/vol: 50.0(g) Date Analyzed: 11/30/2016 15:14

Con. Extract Vol.: 10.0(mL) Dilution Factor: 20

Injection Volume: 1(uL) GC Column: RTX-1701 ID: 0.53(mm)

% Moisture: 8.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 195866 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	48		19-122

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(1-2)-161122-S | Lab Sample ID: 180-61122-2

Matrix: Solid | Lab File ID: 1130160000008.D

Analysis Method: 8151A | Date Collected: 11/22/2016 09:40

Extraction Method: 8151A | Date Extracted: 11/27/2016 09:29

Sample wt/vol: 50.1(g) | Date Analyzed: 11/30/2016 15:38

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RTX-50 ID: 0.53(mm)

% Moisture: 19.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195866 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-76-5	2,4,5-T	0.00312	U *	0.0249	0.00312
94-75-7	2,4-D	0.00681	U *	0.0995	0.00681
93-72-1	Silvex (2,4,5-TP)	0.00261	U *	0.0249	0.00261
75-99-0	Dalapon	0.00882	U	0.112	0.00882
94-82-6	2,4-DB	0.00761	U *	0.0995	0.00761
1918-00-9	Dicamba	0.00596	U	0.0497	0.00596
120-36-5	Dichlorprop	0.0118	U	0.0995	0.0118
88-85-7	Dinoseb	0.00566	U *	0.0149	0.00566
94-74-6	MCPA	2.05	U *	9.95	2.05
93-65-2	MCPP	2.00	U *	9.95	2.00

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	45		19-122

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB22-(1-2)-161122-S | Lab Sample ID: 180-61122-2

Matrix: Solid | Lab File ID: 1130160000008.D

Analysis Method: 8151A | Date Collected: 11/22/2016 09:40

Extraction Method: 8151A | Date Extracted: 11/27/2016 09:29

Sample wt/vol: 50.1(g) | Date Analyzed: 11/30/2016 15:38

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RTX-1701 ID: 0.53(mm)

% Moisture: 19.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195866 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	48		19-122

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB10-(0.0-0.5)-161122-S | Lab Sample ID: 180-61122-3

Matrix: Solid | Lab File ID: 1130160000009.D

Analysis Method: 8151A | Date Collected: 11/22/2016 15:30

Extraction Method: 8151A | Date Extracted: 11/27/2016 09:30

Sample wt/vol: 50.0(g) | Date Analyzed: 11/30/2016 16:02

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RTX-50 ID: 0.53(mm)

% Moisture: 9.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195866 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-76-5	2,4,5-T	0.00276	U *	0.0220	0.00276
94-75-7	2,4-D	0.00603	U *	0.0881	0.00603
93-72-1	Silvex (2,4,5-TP)	0.00232	U *	0.0220	0.00232
75-99-0	Dalapon	0.00782	U	0.0992	0.00782
94-82-6	2,4-DB	0.00675	U *	0.0881	0.00675
1918-00-9	Dicamba	0.00528	U	0.0441	0.00528
120-36-5	Dichlorprop	0.0104	U	0.0881	0.0104
88-85-7	Dinoseb	0.00501	U *	0.0132	0.00501
94-74-6	MCPA	1.82	U *	8.81	1.82
93-65-2	MCPP	1.77	U *	8.81	1.77

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	41		19-122

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB10-(0.0-0.5)-161122-S Lab Sample ID: 180-61122-3

Matrix: Solid Lab File ID: 1130160000009.D

Analysis Method: 8151A Date Collected: 11/22/2016 15:30

Extraction Method: 8151A Date Extracted: 11/27/2016 09:30

Sample wt/vol: 50.0(g) Date Analyzed: 11/30/2016 16:02

Con. Extract Vol.: 10.0(mL) Dilution Factor: 20

Injection Volume: 1(uL) GC Column: RTX-1701 ID: 0.53(mm)

% Moisture: 9.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 195866 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	44		19-122

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB10-(1-2)-161122-S | Lab Sample ID: 180-61122-4

Matrix: Solid | Lab File ID: 1130160000010.D

Analysis Method: 8151A | Date Collected: 11/22/2016 15:35

Extraction Method: 8151A | Date Extracted: 11/27/2016 09:30

Sample wt/vol: 50.0(g) | Date Analyzed: 11/30/2016 16:25

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RTX-50 ID: 0.53(mm)

% Moisture: 9.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195866 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-76-5	2,4,5-T	0.00276	U *	0.0220	0.00276
94-75-7	2,4-D	0.00603	U *	0.0881	0.00603
93-72-1	Silvex (2,4,5-TP)	0.00231	U *	0.0220	0.00231
75-99-0	Dalapon	0.00781	U	0.0991	0.00781
94-82-6	2,4-DB	0.00674	U *	0.0881	0.00674
1918-00-9	Dicamba	0.00527	U	0.0440	0.00527
120-36-5	Dichlorprop	0.0104	U	0.0881	0.0104
88-85-7	Dinoseb	0.00501	U *	0.0132	0.00501
94-74-6	MCPA	1.81	U *	8.81	1.81
93-65-2	MCPP	1.77	U *	8.81	1.77

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	47		19-122

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Client Sample ID: BGSB10-(1-2)-161122-S Lab Sample ID: 180-61122-4

Matrix: Solid Lab File ID: 1130160000010.D

Analysis Method: 8151A Date Collected: 11/22/2016 15:35

Extraction Method: 8151A Date Extracted: 11/27/2016 09:30

Sample wt/vol: 50.0(g) Date Analyzed: 11/30/2016 16:25

Con. Extract Vol.: 10.0(mL) Dilution Factor: 20

Injection Volume: 1(uL) GC Column: RTX-1701 ID: 0.53(mm)

% Moisture: 9.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 195866 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	50		19-122

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189048

SDG No.:

Instrument ID: CGC1 GC Column: RTX-50 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/24/2016 11:16 Calibration End Date: 09/24/2016 13:40 Calibration ID: 32961

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-189048/1	0924160000001.D
Level 2	IC 180-189048/2	0924160000002.D
Level 3	IC 180-189048/3	0924160000003.D
Level 4	ICRT 180-189048/4	0924160000004.D
Level 5	IC 180-189048/5	0924160000005.D
Level 6	IC 180-189048/6	0924160000006.D
Level 7	IC 180-189048/7	0924160000007.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Dalapon	2.245	2.244	2.248	2.246	2.244	2.244	2.246				2.216 - 2.276	2.245
MCPP	8.421	8.420	8.421	8.421	8.421	8.423	8.422				8.391 - 8.451	8.421
Dicamba	8.510	8.509	8.509	8.509	8.509	8.510	8.510				8.479 - 8.539	8.509
MCPA	+++++	8.846	8.846	8.846	8.847	8.846	8.848				8.816 - 8.876	8.847
Dichlorprop	9.127	9.125	9.126	9.128	9.127	9.127	9.127				9.098 - 9.158	9.127
2,4-D	9.622	9.622	9.622	9.620	9.622	9.622	9.621				9.590 - 9.650	9.622
Pentachlorophenol	10.162	10.163	10.164	10.163	10.162	10.165	10.165				10.133 - 10.193	10.163
Silvex (2,4,5-TP)	10.304	10.304	10.305	10.304	10.304	10.305	10.304				10.274 - 10.334	10.304
2,4,5-T	10.864	10.861	10.859	10.858	10.857	10.857	10.856				10.828 - 10.888	10.859
Dinoseb	11.110	11.111	11.112	11.111	11.110	11.111	11.111				11.061 - 11.161	11.111
2,4-DB	+++++	11.257	11.249	11.244	11.241	11.239	11.237				11.214 - 11.274	11.245
2,4-Dichlorophenylacetic acid	8.208	8.209	8.209	8.209	8.209	8.209	8.208				8.179 - 8.239	8.209

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189048

SDG No.:

Instrument ID: CGC1 GC Column: RTX-50 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/24/2016 11:16 Calibration End Date: 09/24/2016 13:40 Calibration ID: 32961

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-189048/1	0924160000001.D
Level 2	IC 180-189048/2	0924160000002.D
Level 3	IC 180-189048/3	0924160000003.D
Level 4	ICRT 180-189048/4	0924160000004.D
Level 5	IC 180-189048/5	0924160000005.D
Level 6	IC 180-189048/6	0924160000006.D
Level 7	IC 180-189048/7	0924160000007.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%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								
Dalapon	96396000 87657306	94638800 82404375	91664775 81354578	88401300	Ave		88931019.2				6.5		20.0			
MCPP	600361 447082	575044 408388	563070 386462	502879	Ave		497612.299				17.2		20.0			
Dicamba	486310600 429295713	467365500 406524344	460270000 391652381	435084250	Ave		439500398				7.7		20.0			
MCPA	+++++ 661364	941662 614002	871627 575883	752768	Ave		736217.607				19.9		20.0			
Dichlorprop	126265100 106527756	120653300 101741953	117876625 98019338	112252263	Ave		111905191				9.3		20.0			
2,4-D	128657400 124786969	126365950 121881878	130694925 118949944	126271513	Ave		125372654				3.2		20.0			
Pentachlorophenol	1488952400 1409802325	1473487400 1353256713	1471206400 1296282613	1443515400	Ave		1419500464				5.0		20.0			
Silvex (2,4,5-TP)	584516800 565176075	574818200 545663538	588201800 516019744	583811250	Ave		565458201				4.6		20.0			
2,4,5-T	375897200 498273200	414890000 497196975	479950900 498456800	496337150	Ave		465857461				10.7		20.0			
Dinoseb	205088200 208105675	199923850 201529866	215151375 200175508	212090250	Ave		206009246				2.9		20.0			
2,4-DB	+++++ 58343900	35564650 62694591	47576350 66405627	53298163	Lin2	-591263.87	63680969.4							0.9980		0.9900
2,4-Dichlorophenylacetic acid	203402700 172149369	192132400 169791969	186362750 165149978	176059000	Ave		180721167				7.6		20.0			

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

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189048

SDG No.:

Instrument ID: CGC1 GC Column: RTX-50 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/24/2016 11:16 Calibration End Date: 09/24/2016 13:40 Calibration ID: 32961

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-189048/1	0924160000001.D
Level 2	IC 180-189048/2	0924160000002.D
Level 3	IC 180-189048/3	0924160000003.D
Level 4	ICRT 180-189048/4	0924160000004.D
Level 5	IC 180-189048/5	0924160000005.D
Level 6	IC 180-189048/6	0924160000006.D
Level 7	IC 180-189048/7	0924160000007.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		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
Dalapon	Ave	963960 26369400	1892776 52066930	3666591	7072104	14025169	0.0100 0.320	0.0200 0.640	0.0400	0.0800	0.160
MCPP	Ave	600361 13068431	1150087 24733568	2252280	4023034	7153310	1.00 32.0	2.00 64.0	4.00	8.00	16.0
Dicamba	Ave	2431553 65043895	4673655 125328762	9205400	17403370	34343657	0.00500 0.160	0.0100 0.320	0.0200	0.0400	0.0800
MCPA	Ave	+++++ 19648061	1883324 36856499	3486506	6022144	10581831	+++++ 32.0	2.00 64.0	4.00	8.00	16.0
Dichlorprop	Ave	1262651 32557425	2413066 62732376	4715065	8980181	17044441	0.0100 0.320	0.0200 0.640	0.0400	0.0800	0.160
2,4-D	Ave	1286574 39002201	2527319 76127964	5227797	10101721	19965915	0.0100 0.320	0.0200 0.640	0.0400	0.0800	0.160
Pentachlorophenol	Ave	3722381 108260537	7367437 207405218	14712064	28870308	56392093	0.00250 0.0800	0.00500 0.160	0.0100	0.0200	0.0400
Silvex (2,4,5-TP)	Ave	1461292 43653083	2874091 82563159	5882018	11676225	22607043	0.00250 0.0800	0.00500 0.160	0.0100	0.0200	0.0400
2,4,5-T	Ave	939743 39775758	2074450 79753088	4799509	9926743	19930928	0.00250 0.0800	0.00500 0.160	0.0100	0.0200	0.0400
Dinoseb	Ave	2050882 64489557	3998477 128112325	8606055	16967220	33296908	0.0100 0.320	0.0200 0.640	0.0400	0.0800	0.160
2,4-DB	Lin2	+++++ 20062269	711293 42499601	1903054	4263853	9335024	+++++ 0.320	0.0200 0.640	0.0400	0.0800	0.160
2,4-Dichlorophenylacetic acid	Ave	2034027 54333430	3842648 105695986	7454510	14084720	27543899	0.0100 0.320	0.0200 0.640	0.0400	0.0800	0.160

Curve Type Legend:
Ave = Average by Height
Lin2 = Linear 1/conc^2 by height

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189048

SDG No.:

Instrument ID: CGC1 GC Column: RTX-1701 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/24/2016 11:16 Calibration End Date: 09/24/2016 13:40 Calibration ID: 32962

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-189048/1	0924160000001.D
Level 2	IC 180-189048/2	0924160000002.D
Level 3	IC 180-189048/3	0924160000003.D
Level 4	ICRT 180-189048/4	0924160000004.D
Level 5	IC 180-189048/5	0924160000005.D
Level 6	IC 180-189048/6	0924160000006.D
Level 7	IC 180-189048/7	0924160000007.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Dalapon	2.327	2.325	2.333	2.329	2.328	2.327	2.330				2.299 - 2.359	2.328
Dicamba	8.175	8.174	8.175	8.175	8.176	8.176	8.176				8.145 - 8.205	8.175
MCPP	8.336	8.335	8.335	8.335	8.335	8.336	8.336				8.305 - 8.365	8.335
MCPA	8.639	8.639	8.639	8.638	8.638	8.640	8.639				8.608 - 8.668	8.639
Dichlorprop	9.001	9.001	9.002	9.001	9.001	9.002	9.002				8.971 - 9.031	9.001
2,4-D	9.394	9.393	9.393	9.393	9.393	9.392	9.391				9.363 - 9.423	9.393
Pentachlorophenol	9.621	9.620	9.621	9.621	9.620	9.621	9.620				9.591 - 9.651	9.621
Silvex (2,4,5-TP)	10.167	10.167	10.169	10.167	10.168	10.168	10.167				10.137 - 10.197	10.168
2,4,5-T	10.624	10.621	10.618	10.616	10.616	10.614	10.614				10.586 - 10.646	10.618
2,4-DB	+++++	11.064	11.059	11.051	11.047	11.046	11.043				11.021 - 11.081	11.052
Dinoseb	11.672	11.671	11.672	11.672	11.671	11.672	11.671				11.642 - 11.702	11.672
2,4-Dichlorophenylacetic acid	7.914	7.913	7.914	7.914	7.914	7.914	7.914				7.884 - 7.944	7.914

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189048

SDG No.:

Instrument ID: CGC1 GC Column: RTX-1701 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/24/2016 11:16 Calibration End Date: 09/24/2016 13:40 Calibration ID: 32962

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-189048/1	0924160000001.D
Level 2	IC 180-189048/2	0924160000002.D
Level 3	IC 180-189048/3	0924160000003.D
Level 4	ICRT 180-189048/4	0924160000004.D
Level 5	IC 180-189048/5	0924160000005.D
Level 6	IC 180-189048/6	0924160000006.D
Level 7	IC 180-189048/7	0924160000007.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%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								
Dalapon	123079300 100801994	119516100 94500575	109800625 89824161	104707350	Ave		106032872				11.6		20.0			
Dicamba	616950000 564287275	609246600 543794988	606078600 524009059	578737300	Ave		577586260				6.1		20.0			
MCPP	426921 500335	503438 481653	529190 469430	512812	Ave		489111.326				6.9		20.0			
MCPA	974435 757389	920966 720684	884197 707876	802370	Ave		823988.107				12.6		20.0			
Dichlorprop	161447400 137029994	153269400 131197884	150511200 126826063	142562613	Ave		143263508				8.7		20.0			
2,4-D	158106700 154465213	156984700 152772466	164797200 149693027	158330538	Ave		156449977				3.1		20.0			
Pentachlorophenol	1926116800 1851706725	1902822400 1778813950	1945904400 1724500150	1904630750	Ave		1862070739				4.4		20.0			
Silvex (2,4,5-TP)	743442800 727748125	739342200 697459575	762719400 665806863	745132800	Ave		725950252				4.6		20.0			
2,4,5-T	447432400 628121175	500342800 620216075	588714400 614231488	617597650	Ave		573807998				12.4		20.0			
2,4-DB	+++++ 72597575	45972300 78786913	56082100 81226464	64653988	Lin2	-707778.48	78165213.8							0.9960		0.9900
Dinoseb	199173500 201487875	196872900 197201716	205232800 196304408	203823038	Ave		200013748				1.8		20.0			
2,4-Dichlorophenylacetic acid	235638100 218018263	228915650 214187275	225578750 208962150	217227775	Ave		221218280				4.2		20.0			

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

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1 Analy Batch No.: 189048

SDG No.:

Instrument ID: CGC1 GC Column: RTX-1701 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/24/2016 11:16 Calibration End Date: 09/24/2016 13:40 Calibration ID: 32962

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-189048/1	0924160000001.D
Level 2	IC 180-189048/2	0924160000002.D
Level 3	IC 180-189048/3	0924160000003.D
Level 4	ICRT 180-189048/4	0924160000004.D
Level 5	IC 180-189048/5	0924160000005.D
Level 6	IC 180-189048/6	0924160000006.D
Level 7	IC 180-189048/7	0924160000007.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		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
Dalapon	Ave	1230793 30240184	2390322 57487463	4392025	8376588	16128319	0.0100 0.320	0.0200 0.640	0.0400	0.0800	0.160
Dicamba	Ave	3084750 87007198	6092466 167682899	12121572	23149492	45142982	0.00500 0.160	0.0100 0.320	0.0200	0.0400	0.0800
MCPP	Ave	426921 15412911	1006876 30043496	2116758	4102498	8005367	1.00 32.0	2.00 64.0	4.00	8.00	16.0
MCPA	Ave	974435 23061877	1841932 45304090	3536786	6418961	12118225	1.00 32.0	2.00 64.0	4.00	8.00	16.0
Dichlorprop	Ave	1614474 41983323	3065388 81168680	6020448	11405009	21924799	0.0100 0.320	0.0200 0.640	0.0400	0.0800	0.160
2,4-D	Ave	1581067 48887189	3139694 95803537	6591888	12666443	24714434	0.0100 0.320	0.0200 0.640	0.0400	0.0800	0.160
Pentachlorophenol	Ave	4815292 142305116	9514112 275920024	19459044	38092615	74068269	0.00250 0.0800	0.00500 0.160	0.0100	0.0200	0.0400
Silvex (2,4,5-TP)	Ave	1858607 55796766	3696711 106529098	7627194	14902656	29109925	0.00250 0.0800	0.00500 0.160	0.0100	0.0200	0.0400
2,4,5-T	Ave	1118581 49617286	2501714 98277038	5887144	12351953	25124847	0.00250 0.0800	0.00500 0.160	0.0100	0.0200	0.0400
2,4-DB	Lin2	+++++ 25211812	919446 51984937	2243284	5172319	11615612	+++++ 0.320	0.0200 0.640	0.0400	0.0800	0.160
Dinoseb	Ave	1991735 63104549	3937458 125634821	8209312	16305843	32238060	0.0100 0.320	0.0200 0.640	0.0400	0.0800	0.160
2,4-Dichlorophenylacetic acid	Ave	2356381 68539928	4578313 133735776	9023150	17378222	34882922	0.0100 0.320	0.0200 0.640	0.0400	0.0800	0.160

Curve Type Legend:
Ave = Average by Height
Lin2 = Linear 1/conc^2 by height

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCVRT 180-195866/1 Calibration Date: 11/30/2016 14:26

Instrument ID: CGC1 Calib Start Date: 09/24/2016 11:16

GC Column: RTX-50 ID: 0.53(mm) Calib End Date: 09/24/2016 13:40

Lab File ID: 1130160000005.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	88931019	93824938		0.0844	0.0800	5.5	15.0
MCPP	Ave	497612	680384		10.9	8.00	36.7*	15.0
Dicamba	Ave	439500398	382625750		0.0348	0.0400	-12.9	15.0
MCPA	Ave	736218	849517		9.23	8.00	15.4*	15.0
Dichlorprop	Ave	111905191	97547225		0.0697	0.0800	-12.8	15.0
2,4-D	Ave	125372654	113541200		0.0725	0.0800	-9.4	15.0
Pentachlorophenol	Ave	1419500464	1314896050		0.0185	0.0200	-7.4	15.0
Silvex (2,4,5-TP)	Ave	565458201	505070450		0.0179	0.0200	-10.7	15.0
2,4,5-T	Ave	465857461	636414950		0.0273	0.0200	36.6*	15.0
Dinoseb	Ave	206009246	205679625		0.0799	0.0800	-0.2	15.0
2,4-DB	Lin2		47687650		0.0692	0.0800	-13.5	15.0
2,4-Dichlorophenylacetic acid	Ave	180721167	166147375		0.0736	0.0800	-8.1	15.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCVRT 180-195866/1 Calibration Date: 11/30/2016 14:26

Instrument ID: CGC1 Calib Start Date: 09/24/2016 11:16

GC Column: RTX-50 ID: 0.53(mm) Calib End Date: 09/24/2016 13:40

Lab File ID: 1130160000005.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.37	2.34	2.40
MCPP	8.62	8.59	8.65
Dicamba	8.71	8.68	8.74
MCPA	9.04	9.01	9.07
Dichlorprop	9.32	9.29	9.35
2,4-D	9.82	9.79	9.85
Pentachlorophenol	10.37	10.34	10.40
Silvex (2,4,5-TP)	10.50	10.47	10.53
2,4,5-T	11.05	11.02	11.08
Dinoseb	11.30	11.25	11.35
2,4-DB	11.43	11.40	11.46
2,4-Dichlorophenylacetic acid	8.41	8.38	8.44

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCVRT 180-195866/1 Calibration Date: 11/30/2016 14:26

Instrument ID: CGC1 Calib Start Date: 09/24/2016 11:16

GC Column: RTX-1701 ID: 0.53(mm) Calib End Date: 09/24/2016 13:40

Lab File ID: 1130160000005.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	106032872	108934700		0.0822	0.0800	2.7	15.0
Dicamba	Ave	577586260	523087950		0.0362	0.0400	-9.4	15.0
MCPP	Ave	489111	475797		7.78	8.00	-2.7	15.0
MCPA	Ave	823988	739817		7.18	8.00	-10.2	15.0
Dichlorprop	Ave	143263508	137529025		0.0768	0.0800	-4.0	15.0
2,4-D	Ave	156449977	145018813		0.0742	0.0800	-7.3	15.0
Pentachlorophenol	Ave	1862070739	1968034750		0.0211	0.0200	5.7	15.0
Silvex (2,4,5-TP)	Ave	725950252	711383300		0.0196	0.0200	-2.0	15.0
2,4,5-T	Ave	573807998	589687050		0.0206	0.0200	2.8	15.0
2,4-DB	Lin2		60990850		0.0715	0.0800	-10.7	15.0
Dinoseb	Ave	200013748	253341063		0.101	0.0800	26.7*	15.0
2,4-Dichlorophenylacetic acid	Ave	221218280	196700850		0.0711	0.0800	-11.1	15.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCVRT 180-195866/1 Calibration Date: 11/30/2016 14:26

Instrument ID: CGC1 Calib Start Date: 09/24/2016 11:16

GC Column: RTX-1701 ID: 0.53(mm) Calib End Date: 09/24/2016 13:40

Lab File ID: 1130160000005.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.45	2.42	2.48
Dicamba	8.36	8.33	8.39
MCPP	8.52	8.49	8.55
MCPA	8.82	8.79	8.85
Dichlorprop	9.19	9.16	9.22
2,4-D	9.58	9.55	9.61
Pentachlorophenol	9.82	9.79	9.85
Silvex (2,4,5-TP)	10.35	10.32	10.38
2,4,5-T	10.80	10.77	10.83
2,4-DB	11.23	11.20	11.26
Dinoseb	11.86	11.83	11.89
2,4-Dichlorophenylacetic acid	8.10	8.07	8.13

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCV 180-195866/12 Calibration Date: 11/30/2016 18:49

Instrument ID: CGC1 Calib Start Date: 09/24/2016 11:16

GC Column: RTX-50 ID: 0.53(mm) Calib End Date: 09/24/2016 13:40

Lab File ID: 1130160000016.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	88931019	89999950		0.0810	0.0800	1.2	15.0
MCPP	Ave	497612	721986		11.6	8.00	45.1*	15.0
Dicamba	Ave	439500398	393585475		0.0358	0.0400	-10.4	15.0
MCPA	Ave	736218	897663		9.75	8.00	21.9*	15.0
Dichlorprop	Ave	111905191	103112763		0.0737	0.0800	-7.9	15.0
2,4-D	Ave	125372654	120886338		0.0771	0.0800	-3.6	15.0
Pentachlorophenol	Ave	1419500464	1356154600		0.0191	0.0200	-4.5	15.0
Silvex (2,4,5-TP)	Ave	565458201	536300800		0.0190	0.0200	-5.2	15.0
2,4,5-T	Ave	465857461	483397500		0.0208	0.0200	3.8	15.0
Dinoseb	Ave	206009246	218325550		0.0848	0.0800	6.0	15.0
2,4-DB	Lin2		51845413		0.0744	0.0800	-7.0	15.0
2,4-Dichlorophenylacetic acid	Ave	180721167	166244675		0.0736	0.0800	-8.0	15.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCV 180-195866/12 Calibration Date: 11/30/2016 18:49

Instrument ID: CGC1 Calib Start Date: 09/24/2016 11:16

GC Column: RTX-50 ID: 0.53(mm) Calib End Date: 09/24/2016 13:40

Lab File ID: 1130160000016.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.37	2.34	2.40
MCPP	8.61	8.58	8.64
Dicamba	8.71	8.68	8.74
MCPA	9.04	9.01	9.07
Dichlorprop	9.32	9.29	9.35
2,4-D	9.81	9.78	9.84
Pentachlorophenol	10.37	10.34	10.40
Silvex (2,4,5-TP)	10.50	10.47	10.53
2,4,5-T	11.05	11.02	11.08
Dinoseb	11.30	11.25	11.35
2,4-DB	11.43	11.40	11.46
2,4-Dichlorophenylacetic acid	8.41	8.38	8.44

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCV 180-195866/12 Calibration Date: 11/30/2016 18:49

Instrument ID: CGC1 Calib Start Date: 09/24/2016 11:16

GC Column: RTX-1701 ID: 0.53(mm) Calib End Date: 09/24/2016 13:40

Lab File ID: 1130160000016.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	106032872	107025613		0.0808	0.0800	0.9	15.0
Dicamba	Ave	577586260	560337375		0.0388	0.0400	-3.0	15.0
MCPP	Ave	489111	459497		7.52	8.00	-6.1	15.0
MCPA	Ave	823988	723578		7.03	8.00	-12.2	15.0
Dichlorprop	Ave	143263508	138979188		0.0776	0.0800	-3.0	15.0
2,4-D	Ave	156449977	162207050		0.0829	0.0800	3.7	15.0
Pentachlorophenol	Ave	1862070739	1937753950		0.0208	0.0200	4.1	15.0
Silvex (2,4,5-TP)	Ave	725950252	767625450		0.0212	0.0200	5.7	15.0
2,4,5-T	Ave	573807998	645972300		0.0225	0.0200	12.6	15.0
2,4-DB	Lin2		69546888		0.0802	0.0800	0.3	15.0
Dinoseb	Ave	200013748	254533638		0.102	0.0800	27.3*	15.0
2,4-Dichlorophenylacetic acid	Ave	221218280	209927875		0.0759	0.0800	-5.1	15.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCV 180-195866/12 Calibration Date: 11/30/2016 18:49

Instrument ID: CGC1 Calib Start Date: 09/24/2016 11:16

GC Column: RTX-1701 ID: 0.53(mm) Calib End Date: 09/24/2016 13:40

Lab File ID: 1130160000016.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.46	2.43	2.49
Dicamba	8.37	8.34	8.40
MCPP	8.52	8.49	8.55
MCPA	8.82	8.79	8.85
Dichlorprop	9.19	9.16	9.22
2,4-D	9.58	9.55	9.61
Pentachlorophenol	9.81	9.78	9.84
Silvex (2,4,5-TP)	10.35	10.32	10.38
2,4,5-T	10.80	10.77	10.83
2,4-DB	11.23	11.20	11.26
Dinoseb	11.85	11.82	11.88
2,4-Dichlorophenylacetic acid	8.10	8.07	8.13

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCV 180-195866/23 Calibration Date: 11/30/2016 23:10

Instrument ID: CGC1 Calib Start Date: 09/24/2016 11:16

GC Column: RTX-50 ID: 0.53(mm) Calib End Date: 09/24/2016 13:40

Lab File ID: 1130160000027.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	88931019	86584500		0.0779	0.0800	-2.6	15.0
MCPP	Ave	497612	743482		12.0	8.00	49.4*	15.0
Dicamba	Ave	439500398	380468350		0.0346	0.0400	-13.4	15.0
MCPA	Ave	736218	916330		9.96	8.00	24.5*	15.0
Dichlorprop	Ave	111905191	98339300		0.0703	0.0800	-12.1	15.0
2,4-D	Ave	125372654	115198263		0.0735	0.0800	-8.1	15.0
Pentachlorophenol	Ave	1419500464	1279195600		0.0180	0.0200	-9.9	15.0
Silvex (2,4,5-TP)	Ave	565458201	504696550		0.0179	0.0200	-10.7	15.0
2,4,5-T	Ave	465857461	457433400		0.0196	0.0200	-1.8	15.0
Dinoseb	Ave	206009246	204108600		0.0793	0.0800	-0.9	15.0
2,4-DB	Lin2		49732050		0.0718	0.0800	-10.3	15.0
2,4-Dichlorophenylacetic acid	Ave	180721167	157699638		0.0698	0.0800	-12.7	15.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCV 180-195866/23 Calibration Date: 11/30/2016 23:10

Instrument ID: CGC1 Calib Start Date: 09/24/2016 11:16

GC Column: RTX-50 ID: 0.53(mm) Calib End Date: 09/24/2016 13:40

Lab File ID: 1130160000027.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.37	2.34	2.40
MCPP	8.62	8.59	8.65
Dicamba	8.71	8.68	8.74
MCPA	9.04	9.01	9.07
Dichlorprop	9.32	9.29	9.35
2,4-D	9.82	9.79	9.85
Pentachlorophenol	10.37	10.34	10.40
Silvex (2,4,5-TP)	10.50	10.47	10.53
2,4,5-T	11.05	11.02	11.08
Dinoseb	11.30	11.25	11.35
2,4-DB	11.43	11.40	11.46
2,4-Dichlorophenylacetic acid	8.41	8.38	8.44

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCV 180-195866/23 Calibration Date: 11/30/2016 23:10

Instrument ID: CGC1 Calib Start Date: 09/24/2016 11:16

GC Column: RTX-1701 ID: 0.53(mm) Calib End Date: 09/24/2016 13:40

Lab File ID: 1130160000027.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	106032872	103719588		0.0783	0.0800	-2.2	15.0
Dicamba	Ave	577586260	533303150		0.0369	0.0400	-7.7	15.0
MCPP	Ave	489111	437863		7.16	8.00	-10.5	15.0
MCPA	Ave	823988	690300		6.70	8.00	-16.2*	15.0
Dichlorprop	Ave	143263508	134785900		0.0753	0.0800	-5.9	15.0
2,4-D	Ave	156449977	156344713		0.0800	0.0800	-0.0	15.0
Pentachlorophenol	Ave	1862070739	1862317200		0.0200	0.0200	0.0	15.0
Silvex (2,4,5-TP)	Ave	725950252	738915200		0.0204	0.0200	1.8	15.0
2,4,5-T	Ave	573807998	623257650		0.0217	0.0200	8.6	15.0
2,4-DB	Lin2		66905463		0.0775	0.0800	-3.1	15.0
Dinoseb	Ave	200013748	241882150		0.0968	0.0800	20.9*	15.0
2,4-Dichlorophenylacetic acid	Ave	221218280	204359138		0.0739	0.0800	-7.6	15.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: CCV 180-195866/23 Calibration Date: 11/30/2016 23:10

Instrument ID: CGC1 Calib Start Date: 09/24/2016 11:16

GC Column: RTX-1701 ID: 0.53(mm) Calib End Date: 09/24/2016 13:40

Lab File ID: 1130160000027.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.45	2.42	2.48
Dicamba	8.37	8.34	8.40
MCPP	8.52	8.49	8.55
MCPA	8.83	8.80	8.86
Dichlorprop	9.19	9.16	9.22
2,4-D	9.58	9.55	9.61
Pentachlorophenol	9.82	9.79	9.85
Silvex (2,4,5-TP)	10.35	10.32	10.38
2,4,5-T	10.80	10.77	10.83
2,4-DB	11.23	11.20	11.26
Dinoseb	11.85	11.82	11.88
2,4-Dichlorophenylacetic acid	8.10	8.07	8.13

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-61122-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 180-195524/1-A
Matrix: Solid
Lab File ID: 1130160000006.D
Analysis Method: 8151A
Date Collected:
Extraction Method: 8151A
Date Extracted: 11/27/2016 09:29
Sample wt/vol: 50.0(g)
Date Analyzed: 11/30/2016 14:50
Con. Extract Vol.: 10.0(mL)
Dilution Factor: 20
Injection Volume: 1(uL)
GC Column: RTX-50 ID: 0.53(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 195866
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-76-5	2,4,5-T	0.00251	U	0.0200	0.00251
94-75-7	2,4-D	0.00547	U	0.0800	0.00547
93-72-1	Silvex (2,4,5-TP)	0.00210	U	0.0200	0.00210
75-99-0	Dalapon	0.00710	U	0.0900	0.00710
94-82-6	2,4-DB	0.00612	U	0.0800	0.00612
1918-00-9	Dicamba	0.00479	U	0.0400	0.00479
120-36-5	Dichlorprop	0.00948	U	0.0800	0.00948
88-85-7	Dinoseb	0.00455	U	0.0120	0.00455
94-74-6	MCPA	1.65	U	8.00	1.65
93-65-2	MCPP	1.61	U	8.00	1.61

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	43		19-122

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-61122-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 180-195524/1-A
Matrix: Solid
Lab File ID: 1130160000006.D
Analysis Method: 8151A
Date Collected:
Extraction Method: 8151A
Date Extracted: 11/27/2016 09:29
Sample wt/vol: 50.0(g)
Date Analyzed: 11/30/2016 14:50
Con. Extract Vol.: 10.0(mL)
Dilution Factor: 20
Injection Volume: 1(uL)
GC Column: RTX-1701 ID: 0.53(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 195866
Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	46		19-122

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-61122-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 180-195524/2-A
Matrix: Solid
Lab File ID: 1130160000015.D
Analysis Method: 8151A
Date Collected:
Extraction Method: 8151A
Date Extracted: 11/27/2016 09:29
Sample wt/vol: 50.0(g)
Date Analyzed: 11/30/2016 18:25
Con. Extract Vol.: 10.0(mL)
Dilution Factor: 20
Injection Volume: 1(uL)
GC Column: RTX-50 ID: 0.53(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 195866
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
93-76-5	2,4,5-T	0.1277		0.0200	0.00251
94-75-7	2,4-D	0.4161		0.0800	0.00547
93-72-1	Silvex (2,4,5-TP)	0.1363		0.0200	0.00210
75-99-0	Dalapon	0.3055		0.0900	0.00710
94-82-6	2,4-DB	0.5835		0.0800	0.00612
1918-00-9	Dicamba	0.1857		0.0400	0.00479
120-36-5	Dichlorprop	0.4641		0.0800	0.00948
88-85-7	Dinoseb	0.6901		0.0120	0.00455
94-74-6	MCPA	53.07		8.00	1.65
93-65-2	MCPP	67.02		8.00	1.61

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	99		19-122

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-61122-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 180-195524/2-A
Matrix: Solid
Lab File ID: 1130160000015.D
Analysis Method: 8151A
Date Collected:
Extraction Method: 8151A
Date Extracted: 11/27/2016 09:29
Sample wt/vol: 50.0(g)
Date Analyzed: 11/30/2016 18:25
Con. Extract Vol.: 10.0(mL)
Dilution Factor: 20
Injection Volume: 1(uL)
GC Column: RTX-1701 ID: 0.53(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 195866
Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	103		19-122

HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CGC1 Start Date: 09/24/2016 11:16

Analysis Batch Number: 189048 End Date: 09/26/2016 06:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 180-189048/1		09/24/2016 11:16	1	0924160000001.D	RTX-50 0.53(mm)
IC 180-189048/1		09/24/2016 11:16	1	0924160000001.D	RTX-1701 0.53(mm)
IC 180-189048/2		09/24/2016 11:40	1	0924160000002.D	RTX-50 0.53(mm)
IC 180-189048/2		09/24/2016 11:40	1	0924160000002.D	RTX-1701 0.53(mm)
IC 180-189048/3		09/24/2016 12:04	1	0924160000003.D	RTX-50 0.53(mm)
IC 180-189048/3		09/24/2016 12:04	1	0924160000003.D	RTX-1701 0.53(mm)
ICRT 180-189048/4		09/24/2016 12:28	1	0924160000004.D	RTX-50 0.53(mm)
ICRT 180-189048/4		09/24/2016 12:28	1	0924160000004.D	RTX-1701 0.53(mm)
IC 180-189048/5		09/24/2016 12:52	1	0924160000005.D	RTX-50 0.53(mm)
IC 180-189048/5		09/24/2016 12:52	1	0924160000005.D	RTX-1701 0.53(mm)
IC 180-189048/6		09/24/2016 13:16	1	0924160000006.D	RTX-50 0.53(mm)
IC 180-189048/6		09/24/2016 13:16	1	0924160000006.D	RTX-1701 0.53(mm)
IC 180-189048/7		09/24/2016 13:40	1	0924160000007.D	RTX-50 0.53(mm)
IC 180-189048/7		09/24/2016 13:40	1	0924160000007.D	RTX-1701 0.53(mm)
RINSE 180-189048/8		09/24/2016 14:03	1		RTX-50 0.53(mm)
RINSE 180-189048/8		09/24/2016 14:03	1		RTX-1701 0.53(mm)
ZZZZZ		09/24/2016 14:27	20		RTX-50 0.53(mm)
ZZZZZ		09/24/2016 14:27	20		RTX-1701 0.53(mm)
ZZZZZ		09/24/2016 14:51	20		RTX-50 0.53(mm)
ZZZZZ		09/24/2016 14:51	20		RTX-1701 0.53(mm)
ZZZZZ		09/24/2016 15:15	20		RTX-50 0.53(mm)
ZZZZZ		09/24/2016 15:15	20		RTX-1701 0.53(mm)
ZZZZZ		09/24/2016 15:40	20		RTX-50 0.53(mm)
ZZZZZ		09/24/2016 15:40	20		RTX-1701 0.53(mm)
ZZZZZ		09/24/2016 16:04	20		RTX-50 0.53(mm)
ZZZZZ		09/24/2016 16:04	20		RTX-1701 0.53(mm)
CCV 180-189048/14		09/24/2016 16:28	1		RTX-50 0.53(mm)
CCV 180-189048/14		09/24/2016 16:28	1		RTX-1701 0.53(mm)
ICV 180-189048/15		09/26/2016 06:46	1		RTX-50 0.53(mm)
ICV 180-189048/15		09/26/2016 06:46	1		RTX-1701 0.53(mm)

8151A

HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CGC1 Start Date: 11/30/2016 14:26

Analysis Batch Number: 195866 End Date: 12/01/2016 00:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 180-195866/1		11/30/2016 14:26	1	1130160000005.D	RTX-50 0.53(mm)
CCVRT 180-195866/1		11/30/2016 14:26	1	1130160000005.D	RTX-1701 0.53(mm)
MB 180-195524/1-A		11/30/2016 14:50	20	1130160000006.D	RTX-50 0.53(mm)
MB 180-195524/1-A		11/30/2016 14:50	20	1130160000006.D	RTX-1701 0.53(mm)
180-61122-1		11/30/2016 15:14	20	1130160000007.D	RTX-50 0.53(mm)
180-61122-1		11/30/2016 15:14	20	1130160000007.D	RTX-1701 0.53(mm)
180-61122-2		11/30/2016 15:38	20	1130160000008.D	RTX-50 0.53(mm)
180-61122-2		11/30/2016 15:38	20	1130160000008.D	RTX-1701 0.53(mm)
180-61122-3		11/30/2016 16:02	20	1130160000009.D	RTX-50 0.53(mm)
180-61122-3		11/30/2016 16:02	20	1130160000009.D	RTX-1701 0.53(mm)
180-61122-4		11/30/2016 16:25	20	1130160000010.D	RTX-50 0.53(mm)
180-61122-4		11/30/2016 16:25	20	1130160000010.D	RTX-1701 0.53(mm)
ZZZZZ		11/30/2016 16:49	20		RTX-50 0.53(mm)
ZZZZZ		11/30/2016 16:49	20		RTX-1701 0.53(mm)
ZZZZZ		11/30/2016 17:13	20		RTX-50 0.53(mm)
ZZZZZ		11/30/2016 17:13	20		RTX-1701 0.53(mm)
ZZZZZ		11/30/2016 17:37	20		RTX-50 0.53(mm)
ZZZZZ		11/30/2016 17:37	20		RTX-1701 0.53(mm)
ZZZZZ		11/30/2016 18:01	20		RTX-50 0.53(mm)
ZZZZZ		11/30/2016 18:01	20		RTX-1701 0.53(mm)
LCS 180-195524/2-A		11/30/2016 18:25	20	1130160000015.D	RTX-50 0.53(mm)
LCS 180-195524/2-A		11/30/2016 18:25	20	1130160000015.D	RTX-1701 0.53(mm)
CCV 180-195866/12		11/30/2016 18:49	1	1130160000016.D	RTX-50 0.53(mm)
CCV 180-195866/12		11/30/2016 18:49	1	1130160000016.D	RTX-1701 0.53(mm)
ZZZZZ		11/30/2016 19:13	20		RTX-50 0.53(mm)
ZZZZZ		11/30/2016 19:13	20		RTX-1701 0.53(mm)
ZZZZZ		11/30/2016 19:37	20		RTX-50 0.53(mm)
ZZZZZ		11/30/2016 19:37	20		RTX-1701 0.53(mm)
ZZZZZ		11/30/2016 20:00	20		RTX-50 0.53(mm)
ZZZZZ		11/30/2016 20:00	20		RTX-1701 0.53(mm)
ZZZZZ		11/30/2016 20:24	20		RTX-50 0.53(mm)
ZZZZZ		11/30/2016 20:24	20		RTX-1701 0.53(mm)
ZZZZZ		11/30/2016 20:48	20		RTX-50 0.53(mm)
ZZZZZ		11/30/2016 20:48	20		RTX-1701 0.53(mm)
ZZZZZ		11/30/2016 21:12	20		RTX-50 0.53(mm)
ZZZZZ		11/30/2016 21:12	20		RTX-1701 0.53(mm)
ZZZZZ		11/30/2016 21:35	20		RTX-50 0.53(mm)
ZZZZZ		11/30/2016 21:35	20		RTX-1701 0.53(mm)
ZZZZZ		11/30/2016 21:59	20		RTX-50 0.53(mm)
ZZZZZ		11/30/2016 21:59	20		RTX-1701 0.53(mm)
ZZZZZ		11/30/2016 22:23	20		RTX-50 0.53(mm)
ZZZZZ		11/30/2016 22:23	20		RTX-1701 0.53(mm)
ZZZZZ		11/30/2016 22:46	20		RTX-50 0.53(mm)
ZZZZZ		11/30/2016 22:46	20		RTX-1701 0.53(mm)
CCV 180-195866/23		11/30/2016 23:10	1	1130160000027.D	RTX-50 0.53(mm)

8151A

HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: CGC1 Start Date: 11/30/2016 14:26

Analysis Batch Number: 195866 End Date: 12/01/2016 00:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 180-195866/23		11/30/2016 23:10	1	1130160000027.D	RTX-1701 0.53(mm)
ZZZZZ		11/30/2016 23:34	20		RTX-50 0.53(mm)
ZZZZZ		11/30/2016 23:34	20		RTX-1701 0.53(mm)
ZZZZZ		11/30/2016 23:57	20		RTX-50 0.53(mm)
ZZZZZ		11/30/2016 23:57	20		RTX-1701 0.53(mm)
ZZZZZ		12/01/2016 00:21	20		RTX-50 0.53(mm)
ZZZZZ		12/01/2016 00:21	20		RTX-1701 0.53(mm)
CCV 180-195866/27		12/01/2016 00:45	1		RTX-50 0.53(mm)
CCV 180-195866/27		12/01/2016 00:45	1		RTX-1701 0.53(mm)

8151A

HERBICIDES BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Batch Number: 195524 Batch Start Date: 11/27/16 09:29 Batch Analyst: Lonzo, Michael A

Batch Method: 8151A Batch End Date: 11/30/16 09:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Herb(RTS)spk 00006	OPHERBRTSSURR 00006		
MB 180-195524/1		8151A, 8151A		50.0 g	10.0 mL		1 mL		
LCS 180-195524/2		8151A, 8151A		50.0 g	10.0 mL	1 mL	1 mL		
180-61122-A-1	BGSB22-(0.0-0.5) -161122-S	8151A, 8151A	T	50.0 g	10.0 mL		1 mL		
180-61122-A-2	BGSB22-(1-2) -161122-S	8151A, 8151A	T	50.1 g	10.0 mL		1 mL		
180-61122-A-3	BGSB10-(0.0-0.5) -161122-S	8151A, 8151A	T	50.0 g	10.0 mL		1 mL		
180-61122-A-4	BGSB10-(1-2) -161122-S	8151A, 8151A	T	50.0 g	10.0 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HERBICIDES BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Batch Number: 195524 Batch Start Date: 11/27/16 09:29 Batch Analyst: Lonzo, Michael A

Batch Method: 8151A Batch End Date: 11/30/16 09:05

Batch Notes	
1:1 Sulfuric + Water Lot ID	2091553
Acidic Sodium Sulfate ID	2091555
Diethyl Ether ID	2128606
Filter Paper ID	9712603
Sulfuric Acid Lot Number	2091553
Hexane ID	2115151
Potassium Hydroxide ID	1812929
MeCL2 ID	2127470
MeCl2 / Acetone ID	1979290
N-evap ID	1
N-evap Temperature	21 Degrees C
Na2SO4 ID	2119020
Nominal Amount Used	50.0g g
pH Paper ID	Ph paper HC581117
Prep Solvent Volume Used	110
Silicic Acid ID	2002881
Sufficient volume for MS/MSD?	yes
TMSDM ID	2112533
Uncorrected N-evap Temperature	21 Degrees C
Uncorrected Temperature	55 Degrees C
Vendor of Reagent used	JT Baker
Water Bath Temperature	55 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 180-61122-1

SDG No.:

Project: U.S. Oil Recovery Superfund Site

Client Sample ID	Lab Sample ID
BGSB22-(0.0-0.5)-161122-S	180-61122-1
BGSB22-(1-2)-161122-S	180-61122-2
BGSB10-(0.0-0.5)-161122-S	180-61122-3
BGSB10-(1-2)-161122-S	180-61122-4

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: BGSB22-(0.0-0.5)-161122-S
Lab Sample ID: 180-61122-1
Lab Name: TestAmerica Pittsburgh
Job No.: 180-61122-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/22/2016 09:35
Reporting Basis: DRY
Date Received: 11/23/2016 09:30
% Solids: 91.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.0592	0.106	0.00866	mg/Kg	J		1	6020A
7429-90-5	Aluminum	5750	3.17	0.609	mg/Kg			1	6020A
7440-38-2	Arsenic	3.01	0.106	0.0152	mg/Kg		F1	1	6020A
7440-42-8	Boron	3.01	2.11	0.337	mg/Kg			1	6020A
7440-39-3	Barium	140	1.06	0.0156	mg/Kg		F1	1	6020A
7440-41-7	Beryllium	0.430	0.106	0.00792	mg/Kg			1	6020A
7440-43-9	Cadmium	0.294	0.106	0.0137	mg/Kg			1	6020A
7440-48-4	Cobalt	7.81	0.0528	0.00264	mg/Kg			1	6020A
7440-47-3	Chromium	7.50	0.211	0.0551	mg/Kg			1	6020A
7440-50-8	Copper	10.1	0.211	0.0550	mg/Kg			1	6020A
7439-96-5	Manganese	404	0.528	0.0375	mg/Kg			1	6020A
7440-02-0	Nickel	6.57	0.106	0.0411	mg/Kg			1	6020A
7439-92-1	Lead	67.5	0.106	0.00961	mg/Kg			1	6020A
7440-36-0	Antimony	0.379	0.211	0.0303	mg/Kg		F1	1	6020A
7782-49-2	Selenium	0.512	0.528	0.0467	mg/Kg	J		1	6020A
7440-62-2	Vanadium	17.9	0.106	0.0739	mg/Kg			1	6020A
7440-66-6	Zinc	110	0.528	0.204	mg/Kg		F1	1	6020A
7440-28-0	Thallium	0.0623	0.106	0.00275	mg/Kg	J		1	6020A
7439-97-6	Mercury	0.0660	0.0359	0.00804	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: BGSB22-(1-2)-161122-S
Lab Sample ID: 180-61122-2
Lab Name: TestAmerica Pittsburgh
Job No.: 180-61122-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/22/2016 09:40
Reporting Basis: DRY
Date Received: 11/23/2016 09:30
% Solids: 80.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.0529	0.106	0.00873	mg/Kg	J		1	6020A
7429-90-5	Aluminum	24800	3.19	0.614	mg/Kg			1	6020A
7440-38-2	Arsenic	11.2	0.106	0.0153	mg/Kg			1	6020A
7440-42-8	Boron	7.36	2.13	0.339	mg/Kg			1	6020A
7440-39-3	Barium	486	1.06	0.0158	mg/Kg			1	6020A
7440-41-7	Beryllium	2.48	0.106	0.00799	mg/Kg			1	6020A
7440-43-9	Cadmium	0.425	0.106	0.0138	mg/Kg			1	6020A
7440-48-4	Cobalt	97.5	0.0532	0.00266	mg/Kg			1	6020A
7440-47-3	Chromium	26.4	0.213	0.0556	mg/Kg			1	6020A
7440-50-8	Copper	18.5	0.213	0.0555	mg/Kg			1	6020A
7439-96-5	Manganese	7470	5.32	0.378	mg/Kg			10	6020A
7440-02-0	Nickel	95.6	0.106	0.0414	mg/Kg			1	6020A
7439-92-1	Lead	107	0.106	0.00969	mg/Kg			1	6020A
7440-36-0	Antimony	0.419	0.213	0.0306	mg/Kg			1	6020A
7782-49-2	Selenium	2.60	0.532	0.0471	mg/Kg			1	6020A
7440-62-2	Vanadium	99.6	0.106	0.0745	mg/Kg			1	6020A
7440-66-6	Zinc	37.1	0.532	0.206	mg/Kg			1	6020A
7440-28-0	Thallium	0.325	0.106	0.00277	mg/Kg			1	6020A
7439-97-6	Mercury	0.00927	0.0404	0.00906	mg/Kg	J		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: BGSB10-(0.0-0.5)-161122-S
Lab Sample ID: 180-61122-3
Lab Name: TestAmerica Pittsburgh
Job No.: 180-61122-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/22/2016 15:30
Reporting Basis: DRY
Date Received: 11/23/2016 09:30
% Solids: 90.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.0945	0.0874	0.00717	mg/Kg			1	6020A
7429-90-5	Aluminum	9360	2.62	0.504	mg/Kg			1	6020A
7440-38-2	Arsenic	2.94	0.0874	0.0126	mg/Kg			1	6020A
7440-42-8	Boron	5.83	1.75	0.279	mg/Kg			1	6020A
7440-39-3	Barium	109	0.874	0.0129	mg/Kg			1	6020A
7440-41-7	Beryllium	0.608	0.0874	0.00656	mg/Kg			1	6020A
7440-43-9	Cadmium	0.204	0.0874	0.0114	mg/Kg			1	6020A
7440-48-4	Cobalt	5.56	0.0437	0.00219	mg/Kg			1	6020A
7440-47-3	Chromium	14.3	0.175	0.0456	mg/Kg			1	6020A
7440-50-8	Copper	13.0	0.175	0.0456	mg/Kg			1	6020A
7439-96-5	Manganese	215	0.437	0.0310	mg/Kg			1	6020A
7440-02-0	Nickel	10.2	0.0874	0.0340	mg/Kg			1	6020A
7439-92-1	Lead	40.5	0.0874	0.00796	mg/Kg			1	6020A
7440-36-0	Antimony	0.410	0.175	0.0251	mg/Kg			1	6020A
7782-49-2	Selenium	0.482	0.437	0.0386	mg/Kg			1	6020A
7440-62-2	Vanadium	19.0	0.0874	0.0612	mg/Kg			1	6020A
7440-66-6	Zinc	82.5	0.437	0.169	mg/Kg			1	6020A
7440-28-0	Thallium	0.0915	0.0874	0.00227	mg/Kg			1	6020A
7439-97-6	Mercury	0.0294	0.0358	0.00801	mg/Kg	J		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: BGSB10-(1-2)-161122-S
Lab Sample ID: 180-61122-4
Lab Name: TestAmerica Pittsburgh
Job No.: 180-61122-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/22/2016 15:35
Reporting Basis: DRY
Date Received: 11/23/2016 09:30
% Solids: 90.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.384	0.109	0.00894	mg/Kg			1	6020A
7429-90-5	Aluminum	9720	3.27	0.629	mg/Kg			1	6020A
7440-38-2	Arsenic	2.72	0.109	0.0157	mg/Kg			1	6020A
7440-42-8	Boron	6.22	2.18	0.347	mg/Kg			1	6020A
7440-39-3	Barium	110	1.09	0.0161	mg/Kg			1	6020A
7440-41-7	Beryllium	0.615	0.109	0.00818	mg/Kg			1	6020A
7440-43-9	Cadmium	0.306	0.109	0.0142	mg/Kg			1	6020A
7440-48-4	Cobalt	4.65	0.0545	0.00273	mg/Kg			1	6020A
7440-47-3	Chromium	14.4	0.218	0.0569	mg/Kg			1	6020A
7440-50-8	Copper	10.6	0.218	0.0568	mg/Kg			1	6020A
7439-96-5	Manganese	217	0.545	0.0387	mg/Kg			1	6020A
7440-02-0	Nickel	10.0	0.109	0.0424	mg/Kg			1	6020A
7439-92-1	Lead	89.5	0.109	0.00992	mg/Kg			1	6020A
7440-36-0	Antimony	0.473	0.218	0.0313	mg/Kg			1	6020A
7782-49-2	Selenium	0.290	0.545	0.0482	mg/Kg	J		1	6020A
7440-62-2	Vanadium	17.8	0.109	0.0763	mg/Kg			1	6020A
7440-66-6	Zinc	76.9	0.545	0.211	mg/Kg			1	6020A
7440-28-0	Thallium	0.0944	0.109	0.00283	mg/Kg	J		1	6020A
7439-97-6	Mercury	0.0711	0.0307	0.00688	mg/Kg			1	7471B

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

ICV Source: MICVX_00050 Concentration Units: ug/L

CCV Source: MCCV1X_00093

Analyte	ICV 180-196391/5 12/05/2016 12:16				CCV 180-196391/10 12/05/2016 12:42				CCV 180-196391/70 12/05/2016 17:51			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	416.4		400	104	546.8		500	109	514.7		500	103
Antimony	83.24		80.0	104	102.0		100	102	101.4		100	101
Arsenic	80.03		80.0	100	101.6		100	102	102.5		100	103
Barium	80.33		80.0	100	101.0		100	101	100.5		100	100
Beryllium	82.53		80.0	103	103.5		100	104	101.9		100	102
Boron	83.99		80.0	105	103.3		100	103	100.1		100	100
Cadmium	81.25		80.0	102	100.1		100	100	99.41		100	99
Chromium	80.25		80.0	100	99.83		100	100	99.85		100	100
Cobalt	79.96		80.0	100	101.7		100	102	103.4		100	103
Copper	82.02		80.0	103	101.5		100	101	104.2		100	104
Lead	80.08		80.0	100	99.12		100	99	99.14		100	99
Manganese	403.0		400	101	500.2		500	100	500.6		500	100
Nickel	80.36		80.0	100	101.0		100	101	100.9		100	101
Selenium	81.75		80.0	102	103.8		100	104	103.3		100	103
Silver	81.34		80.0	102	97.93		100	98	101.2		100	101
Thallium	82.84		80.0	104	99.32		100	99	99.49		100	99
Vanadium	78.86		80.0	99	100.2		100	100	97.58		100	98
Zinc	79.61		80.0	100	99.75		100	100	101.1		100	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 Pittsburgh Job No.: 180-61122-1

SDG No.:

ICV Source: MICVX_00050 Concentration Units: ug/L

CCV Source: MCCV1X_00093

Analyte	CCV 180-196391/81 12/05/2016 18:53				CCV 180-196391/93 12/05/2016 19:58							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	534.7		500	107	548.4		500	110				
Antimony	100.5		100	100	102.7		100	103				
Arsenic	99.19		100	99	104.1		100	104				
Barium	101.5		100	101	101.9		100	102				
Beryllium	102.3		100	102	102.8		100	103				
Boron	100.3		100	100	102.5		100	102				
Cadmium	96.88		100	97	96.31		100	96				
Chromium	97.70		100	98	101.8		100	102				
Cobalt	101.1		100	101	104.4		100	104				
Copper	100.2		100	100	102.6		100	103				
Lead	98.02		100	98	98.79		100	99				
Manganese	483.1		500	97	487.8		500	98				
Nickel	101.0		100	101	103.4		100	103				
Selenium	95.95		100	96	102.9		100	103				
Silver	98.61		100	99	97.88		100	98				
Thallium	98.50		100	98	98.40		100	98				
Vanadium	97.50		100	98	102.2		100	102				
Zinc	96.96		100	97	100.9		100	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 Pittsburgh Job No.: 180-61122-1

SDG No.:

ICV Source: MICVX_00050 Concentration Units: ug/L

CCV Source: MCCV1X_00093

Analyte	ICV 180-196495/5 12/06/2016 09:23				CCV 180-196495/10 12/06/2016 09:49				CCV 180-196495/46 12/06/2016 12:52			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Manganese	404.7		400	101	486.5		500	97	502.1		500	100
Aluminum	424.0		400	106	547.6		500	110	512.0		500	102
Antimony	83.31		80.0	104	101.7		100	102	101.0		100	101
Arsenic	80.16		80.0	100	100.2		100	100	98.24		100	98
Barium	80.49		80.0	101	100.3		100	100	98.74		100	99
Beryllium	85.32		80.0	107	106.1		100	106	102.8		100	103
Boron	85.45		80.0	107	104.7		100	105	100.4		100	100
Cadmium	80.59		80.0	101	99.53		100	100	99.00		100	99
Chromium	83.05		80.0	104	97.26		100	97	98.23		100	98
Cobalt	81.20		80.0	101	97.88		100	98	97.98		100	98
Copper	82.84		80.0	104	100.5		100	100	101.6		100	102
Lead	80.17		80.0	100	99.48		100	99	98.29		100	98
Nickel	80.63		80.0	101	99.45		100	99	100.0		100	100
Selenium	81.83		80.0	102	99.94		100	100	98.32		100	98
Silver	81.70		80.0	102	96.62		100	97	97.32		100	97
Thallium	83.10		80.0	104	100.0		100	100	98.47		100	98
Vanadium	81.83		80.0	102	98.36		100	98	97.48		100	97
Zinc	83.60		80.0	104	103.2		100	103	100.9		100	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 Pittsburgh Job No.: 180-61122-1

SDG No.:

ICV Source: MICVX_00050 Concentration Units: ug/L

CCV Source: MCCV1X_00093

Analyte	CCV 180-196495/58 12/06/2016 13:57											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Manganese	501.2		500	100								
Aluminum	528.6		500	106								
Antimony	100.2		100	100								
Arsenic	98.78		100	99								
Barium	101.2		100	101								
Beryllium	105.6		100	106								
Boron	101.4		100	101								
Cadmium	98.02		100	98								
Chromium	102.0		100	102								
Cobalt	103.8		100	104								
Copper	103.3		100	103								
Lead	98.36		100	98								
Nickel	103.6		100	104								
Selenium	96.24		100	96								
Silver	97.90		100	98								
Thallium	99.09		100	99								
Vanadium	101.9		100	102								
Zinc	102.2		100	102								

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 Pittsburgh Job No.: 180-61122-1

SDG No.:

ICV Source: MHgWorkingicv_01402 Concentration Units: ug/L

CCV Source: MHgworkingCal_01435

Analyte	ICV 180-196009/7-A 12/02/2016 06:35				CCV 180-196009/10-A 12/02/2016 06:41				CCV 180-196009/10-A 12/02/2016 07:54			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.517		2.50	101	5.003		5.00	100	5.051		5.00	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 Pittsburgh Job No.: 180-61122-1

SDG No.:

ICV Source: MHgWorkingicv_01402 Concentration Units: ug/L

CCV Source: MHgworkingCal_01435

Analyte	CCV 180-196009/10-A 12/02/2016 08:21				CCV 180-196009/10-A 12/02/2016 08:47				CCV 180-196009/10-A 12/02/2016 09:12			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.883		5.00	98	4.977		5.00	100	5.048		5.00	101

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 Pittsburgh Job No.: 180-61122-1

SDG No.:

Method: 6020A Instrument ID: X

Lab Sample ID: CRI 180-196391/7 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00087

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	1.00	1.066		107	70-130
Aluminum	30.0	31.01		103	70-130
Arsenic	1.00	1.044		104	70-130
Boron	20.0	20.43		102	70-130
Barium	10.0	10.22		102	70-130
Beryllium	1.00	1.142		114	70-130
Cadmium	1.00	1.058		106	70-130
Cobalt	0.500	0.5893		118	70-130
Chromium	2.00	1.893	J	95	70-130
Copper	2.00	2.389		119	70-130
Manganese	5.00	5.296		106	70-130
Nickel	1.00	1.112		111	70-130
Lead	1.00	1.039		104	70-130
Antimony	2.00	2.129		106	70-130
Selenium	5.00	5.032		101	70-130
Vanadium	1.00	0.8460	J	85	70-130
Zinc	5.00	5.778		116	70-130
Thallium	1.00	1.072		107	70-130

Lab Sample ID: CRI 180-196495/7 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00087

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	1.00	1.171		117	70-130
Aluminum	30.0	35.39		118	70-130
Arsenic	1.00	1.094		109	70-130
Boron	20.0	20.99		105	70-130
Barium	10.0	10.28		103	70-130
Beryllium	1.00	1.104		110	70-130
Cadmium	1.00	1.002		100	70-130
Cobalt	0.500	0.5427		109	70-130
Chromium	2.00	2.102		105	70-130
Copper	2.00	2.034		102	70-130
Manganese	5.00	5.897		118	70-130
Nickel	1.00	1.042		104	70-130

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Method: 6020A Instrument ID: X

Lab Sample ID: CRI 180-196495/7 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00087

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Lead	1.00	1.104		110	70-130
Antimony	2.00	2.106		105	70-130
Selenium	5.00	5.185		104	70-130
Vanadium	1.00	1.067		107	70-130
Zinc	5.00	5.483		110	70-130
Thallium	1.00	1.064		106	70-130

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Method: 7471B Instrument ID: K

Lab Sample ID: CRA 180-196009/9-A Concentration Units: ug/L

CRQL Check Standard Source: MHgworkingCal_01435

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.1909	J	95	50-150

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 180-196391/6 12/05/2016 12:21		CCB1 180-196391/11 12/05/2016 12:47		CCB6 180-196391/71 12/05/2016 17:57		CCB7 180-196391/82 12/05/2016 18:58	
		Found	C	Found	C	Found	C	Found	C
Aluminum	30.0	7.18	U	7.18	U	7.18	U	10.60	J
Antimony	2.00	0.2160	J	0.3960	J	0.3190	J	0.3750	J
Arsenic	1.00	0.1700	J	0.1650	J	0.1290	J	0.1420	J
Barium	10.0	0.270	U	0.2730	J	0.270	U	0.3370	J
Beryllium	1.00	0.1660	J	0.1710	J	0.1060	J	0.1870	J
Boron	20.0	3.39	U	3.39	U	3.39	U	3.39	U
Cadmium	1.00	0.152	U	0.152	U	0.152	U	0.152	U
Chromium	2.00	0.339	U	0.339	U	0.339	U	0.339	U
Cobalt	0.500	0.1760	J	0.1150	J	0.1930	J	0.1490	J
Copper	2.00	0.4840	J	0.454	U	0.454	U	0.4570	J
Lead	1.00	0.1370	J	0.1390	J	0.1240	J	0.1700	J
Manganese	5.00	1.484	J	1.491	J	1.039	J	1.917	J
Nickel	1.00	0.5550	J	0.416	U	0.416	U	0.416	U
Selenium	5.00	0.348	U	0.348	U	0.348	U	0.348	U
Silver	1.00	0.114	U	0.114	U	0.114	U	0.114	U
Thallium	1.00	0.1190	J	0.1370	J	0.09400	J	0.1240	J
Vanadium	1.00	0.297	U	0.297	U	0.297	U	0.297	U
Zinc	5.00	3.476	J	3.210	J	2.491	J	2.560	J

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB8 180-196391/94 12/05/2016 20:03							
		Found	C	Found	C	Found	C	Found	C
Aluminum	30.0	7.18	U						
Antimony	2.00	0.3950	J						
Arsenic	1.00	0.118	U						
Barium	10.0	0.270	U						
Beryllium	1.00	0.102	U						
Boron	20.0	3.39	U						
Cadmium	1.00	0.152	U						
Chromium	2.00	0.339	U						
Cobalt	0.500	0.04100	J						
Copper	2.00	0.454	U						
Lead	1.00	0.0675	U						
Manganese	5.00	0.368	U						
Nickel	1.00	0.416	U						
Selenium	5.00	0.348	U						
Silver	1.00	0.114	U						
Thallium	1.00	0.0360	U						
Vanadium	1.00	0.297	U						
Zinc	5.00	2.24	U						

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 180-196495/6 12/06/2016 09:29		CCB1 180-196495/11 12/06/2016 09:54		CCB4 180-196495/47 12/06/2016 12:57		CCB5 180-196495/59 12/06/2016 14:03	
		Found	C	Found	C	Found	C	Found	C
Manganese	5.00	0.3890	J	0.4250	J	1.682	J	2.006	J
Aluminum	30.0	7.18	U	7.18	U	7.18	U	7.18	U
Antimony	2.00	0.1050	J	0.2750	J	0.2280	J	0.2220	J
Arsenic	1.00	0.1510	J	0.118	U	0.118	U	0.1250	J
Barium	10.0	0.270	U	0.270	U	0.270	U	0.270	U
Beryllium	1.00	0.1610	J	0.1170	J	0.102	U	0.102	U
Boron	20.0	3.39	U	3.39	U	3.39	U	3.39	U
Cadmium	1.00	0.152	U	0.152	U	0.152	U	0.152	U
Chromium	2.00	0.339	U	0.339	U	0.339	U	0.339	U
Cobalt	0.500	0.1000	J	0.05800	J	0.08000	J	0.08900	J
Copper	2.00	0.454	U	0.454	U	0.454	U	0.454	U
Lead	1.00	0.0675	U	0.0675	U	0.0675	U	0.09700	J
Nickel	1.00	0.416	U	0.416	U	0.416	U	0.416	U
Selenium	5.00	0.348	U	0.348	U	0.348	U	0.348	U
Silver	1.00	0.114	U	0.114	U	0.114	U	0.114	U
Thallium	1.00	0.05400	J	0.07700	J	0.05200	J	0.06700	J
Vanadium	1.00	0.297	U	0.297	U	0.297	U	0.297	U
Zinc	5.00	2.24	U	2.24	U	2.24	U	2.24	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 180-196009/8-A 12/02/2016 06:37		CCB 180-196009/11-A 12/02/2016 06:43		CCB 180-196009/11-A 12/02/2016 07:56		CCB 180-196009/11-A 12/02/2016 08:23	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.200	0.0521	U	0.0521	U	0.0521	U	0.0521	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 180-196009/11-A 12/02/2016 08:49		CCB 180-196009/11-A 12/02/2016 09:14					
		Found	C	Found	C	Found	C	Found	C
Mercury	0.200	0.0521	U	0.0521	U				

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 180-195582/1-A

Instrument Code: X Batch No.: 196391

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	0.00820	U		6020A
7429-90-5	Aluminum	0.577	U		6020A
7440-38-2	Arsenic	0.0144	U		6020A
7440-42-8	Boron	0.319	U		6020A
7440-39-3	Barium	0.0148	U		6020A
7440-41-7	Beryllium	0.00750	U		6020A
7440-43-9	Cadmium	0.0130	U		6020A
7440-48-4	Cobalt	0.00250	U		6020A
7440-47-3	Chromium	0.0522	U		6020A
7440-50-8	Copper	0.0521	U		6020A
7439-96-5	Manganese	0.0355	U		6020A
7440-02-0	Nickel	0.0389	U		6020A
7439-92-1	Lead	0.00910	U		6020A
7440-36-0	Antimony	0.0287	U		6020A
7782-49-2	Selenium	0.0442	U		6020A
7440-62-2	Vanadium	0.0700	U		6020A
7440-66-6	Zinc	0.194	U		6020A
7440-28-0	Thallium	0.00260	U		6020A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 180-195631/1-A

Instrument Code: K Batch No.: 196111

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.00739	U		7471B

FORM III-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: ICSA 180-196391/8 Instrument ID: X

Lab File ID: X61205A.xml ICS Source: MICSAX_00087

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**100000**	**100800**	**101**
Antimony		**0.0930**	
Arsenic		**0.123**	
Barium		**0.256**	
Beryllium		**0.0930**	
Boron		**1.09**	
Cadmium		**0.777**	
Chromium		**1.47**	
Cobalt		**0.111**	
Copper		**1.88**	
Lead		**0.259**	
Manganese		**3.05**	
Nickel		**0.363**	
Selenium		**0.350**	
Silver		**0.0780**	
Thallium		**0.0420**	
Vanadium		**0.111**	
Zinc		**1.94**	
Calcium	*100000*	*100600*	*101*
Iron	*100000*	*100900*	*101*
Magnesium	*100000*	*102000*	*102*
Molybdenum	*2000*	*2186*	*109*
Potassium	*100000*	*99250*	*99*
Silicon		*15.2*	
Sodium	*100000*	*100200*	*100*
Strontium		*0.889*	
Tin		*0.211*	
Titanium	*2000*	*2199*	*110*

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 Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: ICSAB 180-196391/9 Instrument ID: X

Lab File ID: X61205A.xml ICS Source: MICSABX_00089

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**100000**	**102933**	**103**
Antimony	**20.0**	**21.2**	**106**
Arsenic	**20.0**	**21.3**	**106**
Barium	**20.0**	**19.8**	**99**
Beryllium	**20.0**	**21.7**	**108**
Boron	**50.0**	**53.3**	**107**
Cadmium	**20.0**	**21.1**	**106**
Chromium	**20.0**	**21.6**	**108**
Cobalt	**20.0**	**20.6**	**103**
Copper	**20.0**	**21.4**	**107**
Lead	**20.0**	**20.9**	**104**
Manganese	**22.0**	**23.1**	**105**
Nickel	**20.0**	**20.8**	**104**
Selenium	**50.0**	**55.1**	**110**
Silver	**20.0**	**20.4**	**102**
Thallium	**20.0**	**20.5**	**102**
Vanadium	**20.0**	**20.6**	**103**
Zinc	**25.0**	**23.4**	**93**
Calcium	*100000*	*103267*	*103*
Iron	*100000*	*101500*	*102*
Magnesium	*100000*	*103700*	*104*
Molybdenum	*2000*	*2188*	*109*
Potassium	*100000*	*100967*	*101*
Silicon	*500*	*532*	*106*
Sodium	*100000*	*101967*	*102*
Strontium	*25.0*	*21.7*	*87*
Tin	*100*	*107*	*107*
Titanium	*2000*	*2206*	*110*

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 Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: ICSA 180-196495/8 Instrument ID: X

Lab File ID: X61206A.xml ICS Source: MICSAX_00087

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Manganese		**3.18**	
Aluminum	*100000*	*102400*	*102*
Antimony		*0.145*	
Arsenic		*0.198*	
Barium		*0.106*	
Beryllium		*0.0810*	
Boron		*5.03*	
Cadmium		*0.831*	
Calcium	*100000*	*100400*	*100*
Chromium		*1.37*	
Cobalt		*0.0840*	
Copper		*1.06*	
Iron	*100000*	*101200*	*101*
Lead		*0.298*	
Magnesium	*100000*	*100300*	*100*
Molybdenum	*2000*	*2107*	*105*
Nickel		*0.256*	
Potassium	*100000*	*96390*	*96*
Selenium		*0.272*	
Silicon		*19.9*	
Silver		*0.0880*	
Sodium	*100000*	*99090*	*99*
Strontium		*0.863*	
Thallium		*0.0420*	
Tin		*0.390*	
Titanium	*2000*	*2181*	*109*
Vanadium		*-0.262*	
Zinc		*1.35*	

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 Pittsburgh Job No.: 180-61122-1

SDG No.:

Lab Sample ID: ICSAB 180-196495/9 Instrument ID: X

Lab File ID: X61206A.xml ICS Source: MICSABX_00089

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Manganese	**22.0**	**23.0**	**105**
Aluminum	*100000*	*102333*	*102*
Antimony	*20.0*	*20.8*	*104*
Arsenic	*20.0*	*20.3*	*102*
Barium	*20.0*	*20.7*	*104*
Beryllium	*20.0*	*21.5*	*108*
Boron	*50.0*	*52.3*	*105*
Cadmium	*20.0*	*21.1*	*105*
Calcium	*100000*	*100933*	*101*
Chromium	*20.0*	*22.1*	*110*
Cobalt	*20.0*	*20.4*	*102*
Copper	*20.0*	*21.9*	*110*
Iron	*100000*	*100933*	*101*
Lead	*20.0*	*20.7*	*104*
Magnesium	*100000*	*100563*	*101*
Molybdenum	*2000*	*2148*	*107*
Nickel	*20.0*	*19.4*	*97*
Potassium	*100000*	*97427*	*97*
Selenium	*50.0*	*51.2*	*102*
Silicon	*500*	*535*	*107*
Silver	*20.0*	*20.2*	*101*
Sodium	*100000*	*99107*	*99*
Strontium	*25.0*	*20.1*	*80*
Thallium	*20.0*	*20.3*	*101*
Tin	*100*	*103*	*103*
Titanium	*2000*	*2192*	*110*
Vanadium	*20.0*	*20.0*	*100*
Zinc	*25.0*	*23.7*	*95*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: BGSB22-(0.0-0.5)-161122-S MS
Lab ID: 180-61122-1 MS
Lab Name: TestAmerica Pittsburgh
Job No.: 180-61122-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 91.9

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	4.651		0.0592	J	5.28	87	75-125		6020A
Aluminum	11670		5750		211	2804	75-125	4	6020A
Arsenic	5.740		3.01		4.22	65	75-125	F1	6020A
Boron	101.1		3.01		106	93	75-125		6020A
Barium	258.7		140		211	56	75-125	F1	6020A
Beryllium	5.212		0.430		5.28	91	75-125		6020A
Cadmium	5.003		0.294		5.28	89	75-125		6020A
Cobalt	47.51		7.81		52.8	75	75-125		6020A
Chromium	28.69		7.50		21.1	100	75-125		6020A
Copper	32.61		10.1		26.4	85	75-125		6020A
Manganese	141.8		404		52.8	-496	75-125	4	6020A
Nickel	51.45		6.57		52.8	85	75-125		6020A
Lead	63.93		67.5		2.11	-169	75-125	4	6020A
Antimony	38.56		0.379		52.8	72	75-125	F1	6020A
Selenium	1.408		0.512	J	1.06	85	75-125		6020A
Vanadium	59.28		17.9		52.8	78	75-125		6020A
Zinc	146.8		110		52.8	69	75-125	F1	6020A
Thallium	4.793		0.0623	J	5.28	90	75-125		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: BGSB22-(0.0-0.5)-161122-S MSD
Lab ID: 180-61122-1 MSD
Lab Name: TestAmerica Pittsburgh
Job No.: 180-61122-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 91.9

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Silver	4.863		5.49	87	75-125	4	20		6020A
Aluminum	12370		220	3014	75-125	6	20	4	6020A
Arsenic	5.669		4.39	61	75-125	1	20	F1	6020A
Boron	103.7		110	92	75-125	3	20		6020A
Barium	271.6		220	60	75-125	5	20	F1	6020A
Beryllium	5.400		5.49	90	75-125	4	20		6020A
Cadmium	5.253		5.49	90	75-125	5	20		6020A
Cobalt	49.37		54.9	76	75-125	4	20		6020A
Chromium	29.49		22.0	100	75-125	3	20		6020A
Copper	33.88		27.5	87	75-125	4	20		6020A
Manganese	146.5		54.9	-468	75-125	3	20	4	6020A
Nickel	53.25		54.9	85	75-125	3	20		6020A
Lead	62.97		2.20	-206	75-125	2	20	4	6020A
Antimony	40.39		54.9	73	75-125	5	20	F1	6020A
Selenium	1.378		1.10	79	75-125	2	20		6020A
Vanadium	60.61		54.9	78	75-125	2	20		6020A
Zinc	152.8		54.9	77	75-125	4	20		6020A
Thallium	5.019		5.49	90	75-125	5	20		6020A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: BGSB22-(0.0-0.5)-161122-S PDS Lab ID: 180-61122-1 PDS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	5.301		0.0592	J	5.28	99	75-125		6020A
Aluminum	5804		5750		211	NC	75-125		6020A
Arsenic	7.144		3.01		4.22	98	75-125		6020A
Boron	112.9		3.01		106	104	75-125		6020A
Barium	348.3		140		211	99	75-125		6020A
Beryllium	5.857		0.430		5.28	103	75-125		6020A
Cadmium	5.738		0.294		5.28	103	75-125		6020A
Cobalt	58.90		7.81		52.8	97	75-125		6020A
Chromium	26.70		7.50		21.1	91	75-125		6020A
Copper	35.59		10.1		26.4	97	75-125		6020A
Manganese	434.9		404		52.8	59	75-125	W	6020A
Nickel	57.65		6.57		52.8	97	75-125		6020A
Lead	68.78		67.5		2.11	NC	75-125		6020A
Antimony	56.52		0.379		52.8	106	75-125		6020A
Selenium	1.500		0.512	J	1.06	94	75-125		6020A
Vanadium	66.06		17.9		52.8	91	75-125		6020A
Zinc	152.7		110		52.8	80	75-125		6020A
Thallium	5.616		0.0623	J	5.28	105	75-125		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 180-195582/2-A

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

Sample Matrix: Solid LCS Source: MTAPITTICPMS_00025

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Silver	5.00	4.962		99	80	120		6020A
Aluminum	200	195.6		98	80	120		6020A
Arsenic	4.00	3.849		96	80	120		6020A
Boron	100	99.29		99	80	120		6020A
Barium	200	194.3		97	80	120		6020A
Beryllium	5.00	4.816		96	80	120		6020A
Cadmium	5.00	4.980		100	80	120		6020A
Cobalt	50.0	48.52		97	80	120		6020A
Chromium	20.0	19.01		95	80	120		6020A
Copper	25.0	25.10		100	80	120		6020A
Manganese	50.0	51.11		102	80	120		6020A
Nickel	50.0	49.30		99	80	120		6020A
Lead	2.00	2.028		101	80	120		6020A
Antimony	50.0	50.01		100	80	120		6020A
Selenium	1.00	1.076		108	80	120		6020A
Vanadium	50.0	46.53		93	80	120		6020A
Zinc	50.0	46.93		94	80	120		6020A
Thallium	5.00	5.077		102	80	120		6020A

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 180-195631/2-A

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

Sample Matrix: Solid LCS Source: MHgworkingCal_01435

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.417	0.3331		80	80	120		7471B

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

Lab ID: 180-61122-1

SDG No:

Lab Name: TestAmerica Pittsburgh Job No: 180-61122-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Silver	0.0592	J	0.08079	J	NC		6020A
Aluminum	5750		5972		3.9		6020A
Arsenic	3.01		3.052		1.4		6020A
Boron	3.01		2.661	J	NC		6020A
Barium	140		145.3		3.8		6020A
Beryllium	0.430		0.3775	J	12	V	6020A
Cadmium	0.294		0.3221	J	NC		6020A
Cobalt	7.81		7.925		1.5		6020A
Chromium	7.50		7.487		0.21		6020A
Copper	10.1		10.38		2.7		6020A
Manganese	404		410.5		1.7		6020A
Nickel	6.57		6.257		4.7		6020A
Lead	67.5		66.00		2.2		6020A
Antimony	0.379		0.3744	J	NC		6020A
Selenium	0.512	J	0.4229	J	NC		6020A
Vanadium	17.9		18.32		2.4		6020A
Zinc	110		109.6		0.67		6020A
Thallium	0.0623	J	0.07603	J	NC		6020A

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 180-61122-1

SDG Number:

Matrix: Solid Instrument ID: X

Method: 6020A MDL Date: 06/15/2016 11:54

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Aluminum	27	3	0.5768
Antimony	121	0.2	0.0287
Arsenic	75	0.1	0.0144
Barium	137	1	0.0148
Beryllium	9	0.1	0.0075
Boron	11	2	0.3188
Cadmium	111	0.1	0.013
Chromium	52	0.2	0.0522
Cobalt	59	0.05	0.0025
Copper	65	0.2	0.0521
Lead	208	0.1	0.0091
Manganese	55	0.5	0.0355
Nickel	60	0.1	0.0389
Selenium	82	0.5	0.0442
Silver	107	0.1	0.0082
Thallium	205	0.1	0.0026
Vanadium	51	0.1	0.07
Zinc	66	0.5	0.1936

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 180-61122-1

SDG Number:

Matrix: Solid Instrument ID: X

Method: 6020A XMDL Date: 06/15/2016 11:53

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Aluminum	27	30	7.184
Antimony	121	2	0.0213
Arsenic	75	1	0.1182
Barium	137	10	0.2698
Beryllium	9	1	0.1023
Boron	11	20	3.393
Cadmium	111	1	0.1516
Chromium	52	2	0.3386
Cobalt	59	0.5	0.0218
Copper	65	2	0.4544
Lead	208	1	0.0675
Manganese	55	5	0.368
Nickel	60	1	0.4163
Selenium	82	5	0.3477
Silver	107	1	0.114
Thallium	205	1	0.036
Vanadium	51	1	0.2965
Zinc	66	5	2.236

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 180-61122-1

SDG Number:

Matrix: Solid Instrument ID: K

Method: 7471B MDL Date: 02/10/2016 13:20

Prep Method: 7471B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Mercury	253.7	0.033	0.00739

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 180-61122-1

SDG Number:

Matrix: Solid Instrument ID: K

Method: 7471B XMDL Date: 02/10/2016 13:22

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.0521

FORM IX - IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Pittsburgh Job No: 180-61122-1

SDG No.:

Instrument ID: X Date: 03/14/2011 22:35

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Silver		2500	6020A
Aluminum		450000	6020A
Arsenic		4500	6020A
Boron		9000	6020A
Barium		13500	6020A
Beryllium		9000	6020A
Cadmium		13500	6020A
Cobalt		13500	6020A
Chromium		13500	6020A
Copper		20000	6020A
Manganese		25000	6020A
Nickel		13500	6020A
Lead		20000	6020A
Antimony		13500	6020A
Selenium		4500	6020A
Vanadium		13500	6020A
Zinc		25000	6020A
Thallium		13500	6020A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 180-195582/1-A	11/28/2016 07:42	195582	1.00		100
LCS 180-195582/2-A	11/28/2016 07:42	195582	1.00		100
180-61122-1	11/28/2016 07:42	195582	1.03		100
180-61122-1 MS	11/28/2016 07:42	195582	1.03		100
180-61122-1 MSD	11/28/2016 07:42	195582	0.99		100
180-61122-2	11/28/2016 07:42	195582	1.17		100
180-61122-3	11/28/2016 07:42	195582	1.26		100
180-61122-4	11/28/2016 07:42	195582	1.01		100

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Prep Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 180-195631/1-A	11/28/2016 12:49	195631	0.60		100
LCS 180-195631/2-A	11/28/2016 12:49	195631	0.60		100
180-61122-1	11/28/2016 12:49	195631	0.60		100
180-61122-2	11/28/2016 12:49	195631	0.61		100
180-61122-3	11/28/2016 12:49	195631	0.61		100
180-61122-4	11/28/2016 12:49	195631	0.71		100

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: X Analysis Method: 6020A

Start Date: 12/05/2016 06:59 End Date: 12/05/2016 23:37

Lab Sample Id	D/F	Type	Time	Analytes																								
				Ag	Al	As	B	Ba	Be	Cd	Co	Cr	Cu	Mn	Ni	Pb	Sb	Se	Tl	V	Zn							
ITUNE 180-196391/1			06:59																									
STD1 180-196391/2 IC	1		12:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
STD2 180-196391/3 IC	1		12:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
STD3 180-196391/4 IC	1		12:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
ICV 180-196391/5	1		12:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
ICB 180-196391/6	1		12:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
CRI 180-196391/7	1		12:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
ICSA 180-196391/8	1		12:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
ICSAB 180-196391/9	1		12:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
CCV 180-196391/10	1		12:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
CCB1 180-196391/11	1		12:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
ZZZZZZ			12:52																									
ZZZZZZ			12:57																									
ZZZZZZ			13:02																									
ZZZZZZ			13:07																									
ZZZZZZ			13:12																									
ZZZZZZ			13:17																									
ZZZZZZ			13:22																									
ZZZZZZ			13:28																									
ZZZZZZ			13:33																									
ZZZZZZ			13:38																									
CCV 180-196391/22			13:43																									
CCB2 180-196391/23			13:48																									
ZZZZZZ			13:53																									
ZZZZZZ			13:58																									
ZZZZZZ			14:03																									
ZZZZZZ			14:08																									
ZZZZZZ			14:13																									
ZZZZZZ			14:18																									
ZZZZZZ			14:24																									
ZZZZZZ			14:29																									
ZZZZZZ			14:34																									
ZZZZZZ			14:39																									
CCV 180-196391/34			14:44																									
CCB3 180-196391/35			14:49																									
ZZZZZZ			14:54																									
ZZZZZZ			14:59																									
ZZZZZZ			15:04																									
ZZZZZZ			15:10																									
ZZZZZZ			15:15																									
ZZZZZZ			15:20																									
ZZZZZZ			15:25																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: X Analysis Method: 6020A

Start Date: 12/05/2016 06:59 End Date: 12/05/2016 23:37

Lab Sample Id	D/F	Type	Time	Analytes																							
				Ag	Al	As	B	Ba	Be	Cd	Co	Cr	Cu	Mn	Ni	Pb	Sb	Se	Tl	V	Zn						
ZZZZZZ			15:30																								
ZZZZZZ			15:35																								
ZZZZZZ			15:44																								
CCV 180-196391/46			15:49																								
CCB4 180-196391/47			15:54																								
ZZZZZZ			15:59																								
ZZZZZZ			16:04																								
ZZZZZZ			16:09																								
ZZZZZZ			16:14																								
ZZZZZZ			16:20																								
ZZZZZZ			16:25																								
ZZZZZZ			16:30																								
ZZZZZZ			16:35																								
ZZZZZZ			16:40																								
ZZZZZZ			16:45																								
CCV 180-196391/58			16:50																								
CCB5 180-196391/59			16:55																								
ZZZZZZ			17:00																								
ZZZZZZ			17:05																								
ZZZZZZ			17:11																								
ZZZZZZ			17:16																								
ZZZZZZ			17:21																								
ZZZZZZ			17:26																								
ZZZZZZ			17:31																								
ZZZZZZ			17:36																								
ZZZZZZ			17:41																								
ZZZZZZ			17:46																								
CCV 180-196391/70	1		17:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
CCB6 180-196391/71	1		17:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
MB 180-195582/1-A	1	T	18:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
LCS 180-195582/2-A	1	T	18:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
180-61122-1	1	T	18:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
180-61122-1 SD	5	T	18:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
180-61122-1 MS	1	T	18:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
180-61122-1 MSD	1	T	18:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
180-61122-1 PDS	1	T	18:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
180-61122-2	1	T	18:42	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X						
180-61122-3	1	T	18:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
CCV 180-196391/81	1		18:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
CCB7 180-196391/82	1		18:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
180-61122-4	1	T	19:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
ZZZZZZ			19:08																								

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: X Analysis Method: 6020A

Start Date: 12/05/2016 06:59 End Date: 12/05/2016 23:37

Lab Sample Id	D/F	Type	Time	Analytes																								
				Ag	Al	As	B	Ba	Be	Cd	Co	Cr	Cu	Mn	Ni	Pb	Sb	Se	Tl	V	Zn							
ZZZZZZ			19:17																									
ZZZZZZ			19:22																									
ZZZZZZ			19:27																									
ZZZZZZ			19:32																									
ZZZZZZ			19:37																									
ZZZZZZ			19:42																									
ZZZZZZ			19:47																									
ZZZZZZ			19:53																									
CCV 180-196391/93	1		19:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
CCB8 180-196391/94	1		20:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
ZZZZZZ			20:08																									
ZZZZZZ			20:13																									
ZZZZZZ			20:18																									
ZZZZZZ			20:23																									
ZZZZZZ			20:28																									
ZZZZZZ			20:33																									
ZZZZZZ			20:38																									
ZZZZZZ			20:43																									
ZZZZZZ			20:48																									
CCV 180-196391/104			20:53																									
CCB9 180-196391/105			20:59																									
ZZZZZZ			21:04																									
ZZZZZZ			21:09																									
ZZZZZZ			21:14																									
ZZZZZZ			21:19																									
CRI 180-196391/110			21:33																									
CCV 180-196391/111			21:38																									
CCB10 180-196391/112			21:43																									
ZZZZZZ			21:50																									
ZZZZZZ			21:55																									
ZZZZZZ			22:00																									
ZZZZZZ			22:05																									
ZZZZZZ			22:11																									
ZZZZZZ			22:16																									
ZZZZZZ			22:21																									
ZZZZZZ			22:26																									
ZZZZZZ			22:31																									
ZZZZZZ			22:36																									
CCV 180-196391/123			22:41																									
CCB11 180-196391/124			22:46																									
ZZZZZZ			22:51																									
ZZZZZZ			22:56																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: X Analysis Method: 6020A

Start Date: 12/05/2016 06:59 End Date: 12/05/2016 23:37

Lab Sample Id	D/F	Type	Time	Analytes																								
				Ag	Al	As	B	Ba	Be	Cd	Co	Cr	Cu	Mn	Ni	Pb	Sb	Se	Tl	V	Zn							
ZZZZZZ			23:02																									
ZZZZZZ			23:07																									
ZZZZZZ			23:12																									
ZZZZZZ			23:17																									
CRI 180-196391/131			23:27																									
CCV 180-196391/132			23:32																									
CCB12 180-196391/133			23:37																									

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: X Analysis Method: 6020A

Start Date: 12/06/2016 07:28 End Date: 12/06/2016 18:47

Lab Sample Id	D/F	Type	Time	Analytes																							
				Mn																							
ITUNE 180-196495/1			07:28																								
STD1 180-196495/2 IC	1		09:08	X																							
STD2 180-196495/3 IC	1		09:13	X																							
STD3 180-196495/4 IC	1		09:18	X																							
ICV 180-196495/5	1		09:23	X																							
ICB 180-196495/6	1		09:29	X																							
CRI 180-196495/7	1		09:34	X																							
ICSA 180-196495/8	1		09:39	X																							
ICSAB 180-196495/9	1		09:44	X																							
CCV 180-196495/10	1		09:49	X																							
CCB1 180-196495/11	1		09:54	X																							
ZZZZZZ			09:59																								
ZZZZZZ			10:04																								
ZZZZZZ			10:09																								
ZZZZZZ			10:14																								
ZZZZZZ			10:20																								
ZZZZZZ			10:25																								
ZZZZZZ			10:30																								
ZZZZZZ			10:35																								
ZZZZZZ			10:40																								
ZZZZZZ			10:45																								
CCV 180-196495/22			10:50																								
CCB2 180-196495/23			10:55																								
ZZZZZZ			11:00																								
ZZZZZZ			11:05																								
ZZZZZZ			11:11																								
ZZZZZZ			11:16																								
ZZZZZZ			11:21																								
ZZZZZZ			11:26																								
ZZZZZZ			11:31																								
ZZZZZZ			11:36																								
ZZZZZZ			11:41																								
ZZZZZZ			11:46																								
CCV 180-196495/34			11:51																								
CCB3 180-196495/35			11:56																								
ZZZZZZ			12:01																								
ZZZZZZ			12:06																								
ZZZZZZ			12:12																								
ZZZZZZ			12:17																								
ZZZZZZ			12:22																								
ZZZZZZ			12:27																								
ZZZZZZ			12:32																								

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: X Analysis Method: 6020A

Start Date: 12/06/2016 07:28 End Date: 12/06/2016 18:47

Lab Sample Id	D/F	Type	Time	Analytes																							
				Mn																							
ZZZZZZ			12:37																								
ZZZZZZ			12:42																								
ZZZZZZ			12:47																								
CCV 180-196495/46	1		12:52	X																							
CCB4 180-196495/47	1		12:57	X																							
ZZZZZZ			13:03																								
ZZZZZZ			13:08																								
ZZZZZZ			13:13																								
180-61122-2	10	T	13:18	X																							
ZZZZZZ			13:27																								
ZZZZZZ			13:32																								
ZZZZZZ			13:37																								
ZZZZZZ			13:42																								
ZZZZZZ			13:47																								
ZZZZZZ			13:52																								
CCV 180-196495/58	1		13:57	X																							
CCB5 180-196495/59	1		14:03	X																							
ZZZZZZ			14:08																								
ZZZZZZ			14:13																								
ZZZZZZ			14:18																								
ZZZZZZ			14:23																								
ZZZZZZ			14:28																								
ZZZZZZ			14:33																								
ZZZZZZ			14:38																								
ZZZZZZ			14:44																								
ZZZZZZ			14:49																								
ZZZZZZ			14:54																								
CCV 180-196495/70			14:59																								
CCB6 180-196495/71			15:04																								
ZZZZZZ			15:09																								
ZZZZZZ			15:14																								
ZZZZZZ			15:19																								
ZZZZZZ			15:24																								
ZZZZZZ			15:30																								
ZZZZZZ			15:35																								
CCV 180-196495/78			15:43																								
CCB7 180-196495/79			15:48																								
ZZZZZZ			15:53																								
ZZZZZZ			15:59																								
ZZZZZZ			16:04																								
ZZZZZZ			16:09																								
ZZZZZZ			16:14																								

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: X Analysis Method: 6020A

Start Date: 12/06/2016 07:28 End Date: 12/06/2016 18:47

Lab Sample Id	D/F	Type	Time	Analytes																							
				Mn																							
ZZZZZZ			16:24																								
ZZZZZZ			16:28																								
ZZZZZZ			16:33																								
ZZZZZZ			16:38																								
ZZZZZZ			16:44																								
CCV 180-196495/90			16:51																								
CCB8 180-196495/91			16:56																								
ZZZZZZ			17:01																								
ZZZZZZ			17:06																								
ZZZZZZ			17:12																								
ZZZZZZ			17:17																								
ZZZZZZ			17:22																								
ZZZZZZ			17:27																								
ZZZZZZ			17:32																								
ZZZZZZ			17:37																								
ZZZZZZ			17:42																								
CCV 180-196495/101			17:51																								
CCB9 180-196495/102			17:56																								
ZZZZZZ			18:01																								
ZZZZZZ			18:07																								
ZZZZZZ			18:12																								
ZZZZZZ			18:17																								
ZZZZZZ			18:22																								
CRI 180-196495/108			18:32																								
CRI 180-196495/109			18:37																								
CCV 180-196495/110			18:42																								
CCB10 180-196495/111			18:47																								

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: K Analysis Method: 7471B

Start Date: 12/02/2016 06:23 End Date: 12/02/2016 09:48

Lab Sample Id	D/F	Type	Time	Analytes																						
				Hg																						
IC 180-196009/1-A			06:23	X																						
IC 180-196009/2-A			06:25	X																						
IC 180-196009/3-A			06:27	X																						
IC 180-196009/4-A			06:29	X																						
IC 180-196009/5-A			06:31	X																						
IC 180-196009/6-A			06:33	X																						
ICV 180-196009/7-A	1		06:35	X																						
ICB 180-196009/8-A	1		06:37	X																						
CRA 180-196009/9-A	1		06:39	X																						
CCV 180-196009/10-A	1		06:41	X																						
CCB 180-196009/11-A	1		06:43	X																						
ZZZZZZ			06:45																							
ZZZZZZ			06:47																							
ZZZZZZ			06:49																							
ZZZZZZ			06:51																							
ZZZZZZ			06:53																							
ZZZZZZ			06:55																							
ZZZZZZ			06:57																							
ZZZZZZ			07:00																							
ZZZZZZ			07:02																							
ZZZZZZ			07:04																							
CCV 180-196009/10-A			07:06																							
CCB 180-196009/11-A			07:08																							
ZZZZZZ			07:10																							
ZZZZZZ			07:12																							
ZZZZZZ			07:14																							
ZZZZZZ			07:16																							
ZZZZZZ			07:18																							
ZZZZZZ			07:20																							
ZZZZZZ			07:22																							
ZZZZZZ			07:24																							
ZZZZZZ			07:26																							
ZZZZZZ			07:28																							
CCV 180-196009/10-A			07:30																							
CCB 180-196009/11-A			07:32																							
ZZZZZZ			07:34																							
ZZZZZZ			07:36																							
ZZZZZZ			07:38																							
ZZZZZZ			07:40																							
ZZZZZZ			07:42																							
ZZZZZZ			07:44																							
ZZZZZZ			07:46																							

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: K Analysis Method: 7471B

Start Date: 12/02/2016 06:23 End Date: 12/02/2016 09:48

Lab Sample Id	D/F	Type	Time	Analytes																							
				Hg																							
ZZZZZZ			07:48																								
ZZZZZZ			07:50																								
ZZZZZZ			07:52																								
CCV 180-196009/10-A	1		07:54	X																							
CCB 180-196009/11-A	1		07:56	X																							
ZZZZZZ			07:59																								
ZZZZZZ			08:01																								
MB 180-195631/1-A	1	T	08:03	X																							
LCS 180-195631/2-A	1	T	08:05	X																							
ZZZZZZ			08:07																								
ZZZZZZ			08:08																								
ZZZZZZ			08:11																								
ZZZZZZ			08:14																								
ZZZZZZ			08:17																								
ZZZZZZ			08:18																								
CCV 180-196009/10-A	1		08:21	X																							
CCB 180-196009/11-A	1		08:23	X																							
ZZZZZZ			08:26																								
ZZZZZZ			08:27																								
ZZZZZZ			08:30																								
ZZZZZZ			08:33																								
ZZZZZZ			08:35																								
180-61122-1	1	T	08:37	X																							
180-61122-2	1	T	08:39	X																							
ZZZZZZ			08:41																								
ZZZZZZ			08:43																								
ZZZZZZ			08:45																								
CCV 180-196009/10-A	1		08:47	X																							
CCB 180-196009/11-A	1		08:49	X																							
ZZZZZZ			08:51																								
ZZZZZZ			08:53																								
ZZZZZZ			08:55																								
ZZZZZZ			08:57																								
180-61122-3	1	T	08:59	X																							
180-61122-4	1	T	09:01	X																							
ZZZZZZ			09:03																								
ZZZZZZ			09:05																								
ZZZZZZ			09:07																								
ZZZZZZ			09:10																								
CCV 180-196009/10-A	1		09:12	X																							
CCB 180-196009/11-A	1		09:14	X																							
ZZZZZZ			09:16																								

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: K Analysis Method: 7471B

Start Date: 12/02/2016 06:23 End Date: 12/02/2016 09:48

Lab Sample Id	D/F	Type	Time	Analytes																							
				Hg																							
ZZZZZZ			09:18																								
ZZZZZZ			09:20																								
ZZZZZZ			09:22																								
ZZZZZZ			09:24																								
ZZZZZZ			09:26																								
ZZZZZZ			09:28																								
ZZZZZZ			09:30																								
ZZZZZZ			09:32																								
ZZZZZZ			09:34																								
CCV 180-196009/10-A			09:36																								
CCB 180-196009/11-A			09:38																								
ZZZZZZ			09:40																								
ZZZZZZ			09:42																								
ZZZZZZ			09:44																								
CCV 180-196009/10-A			09:46																								
CCB 180-196009/11-A			09:48																								

Prep Types:
T = Total/NA

FORM XIII-IN

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

ICP-MS Instrument ID: X Start Date: 12/05/2016 End Date: 12/05/2016

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element In	Q
STD1 180-196391/2 I	12:01	100		100		100		100		100	
STD2 180-196391/3 I	12:06	94		95		99		92		93	
STD3 180-196391/4 I	12:11	98		96		98		97		97	
ICV 180-196391/5	12:16	95		96		103		95		96	
ICB 180-196391/6	12:21	102		102		104		103		102	
CRI 180-196391/7	12:26	102		109		108		102		102	
ICSA 180-196391/8	12:32	89		92		97		88		92	
ICSAB 180-196391/9	12:37	90		95		99		91		94	
CCV 180-196391/10	12:42	99		103		107		101		102	
CCB1 180-196391/11	12:47	106		108		111		108		108	
CCV 180-196391/70	17:51	83		83		86		85		83	
CCB6 180-196391/71	17:57	94		90		92		93		90	
MB 180-195582/1-A	18:07	87		83		82		84		81	
LCS 180-195582/2-A	18:12	86		82		80		79		78	
180-61122-1	18:17	85		85				82		80	
180-61122-1 SD	18:22	90		90		99		91		89	
180-61122-1 MS	18:27	84		88				81		79	
180-61122-1 MSD	18:32	87		90				81		79	
180-61122-1 PDS	18:37	86		88				81		79	
180-61122-2	18:42	93		106				86		86	
180-61122-3	18:48	83		88				79		80	
CCV 180-196391/81	18:53	94		95		100		92		91	
CCB7 180-196391/82	18:58	100		97		102		100		98	
180-61122-4	19:03	85		88		132		80		80	
CCV 180-196391/93	19:58	86		84		88		84		85	
CCB8 180-196391/94	20:03	92		88		93		92		92	

FORM XV - IN

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

ICP-MS Instrument ID: X Start Date: 12/05/2016 End Date: 12/05/2016

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD1 180-196391/2 I	12:01	100		100		100					
STD2 180-196391/3 I	12:06	94		95		89					
STD3 180-196391/4 I	12:11	97		96		96					
ICV 180-196391/5	12:16	98		96		94					
ICB 180-196391/6	12:21	103		100		101					
CRI 180-196391/7	12:26	101		99		99					
ICSA 180-196391/8	12:32	94		94		87					
ICSAB 180-196391/9	12:37	96		95		89					
CCV 180-196391/10	12:42	101		100		94					
CCB1 180-196391/11	12:47	104		102		100					
CCV 180-196391/70	17:51	88		87		84					
CCB6 180-196391/71	17:57	92		91		91					
MB 180-195582/1-A	18:07	88		88		89					
LCS 180-195582/2-A	18:12	87		86		83					
180-61122-1	18:17	92		91		84					
180-61122-1 SD	18:22	95		93		91					
180-61122-1 MS	18:27	92		91		82					
180-61122-1 MSD	18:32	91		90		81					
180-61122-1 PDS	18:37	92		91		80					
180-61122-2	18:42	120		112		75					
180-61122-3	18:48	93		92		80					
CCV 180-196391/81	18:53	91		89		84					
CCB7 180-196391/82	18:58	95		93		91					
180-61122-4	19:03	93		91		82					
CCV 180-196391/93	19:58	87		86		83					
CCB8 180-196391/94	20:03	91		90		90					

FORM XV - IN

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

ICP-MS Instrument ID: X Start Date: 12/06/2016 End Date: 12/06/2016

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element In	Q
STD1 180-196495/2 I	09:08	100		100		100		100		100	
STD2 180-196495/3 I	09:13	95		95		94		90		92	
STD3 180-196495/4 I	09:18	97		94		93		95		94	
ICV 180-196495/5	09:23	92		93		96		91		92	
ICB 180-196495/6	09:29	99		98		98		99		98	
CRI 180-196495/7	09:34	99		105		96		97		97	
ICSA 180-196495/8	09:39	84		83		87		82		85	
ICSAB 180-196495/9	09:44	85		86		86		82		85	
CCV 180-196495/10	09:49	89		94		89		88		89	
CCB1 180-196495/11	09:54	94		95		94		94		94	
CCV 180-196495/46	12:52	76		76		74		76		76	
CCB4 180-196495/47	12:57	80		79		79		82		81	
180-61122-2	13:18	77		77		99		79		77	
CCV 180-196495/58	13:57										
CCB5 180-196495/59	14:03	76				70		71		72	

FORM XV - IN

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

ICP-MS Instrument ID: X Start Date: 12/06/2016 End Date: 12/06/2016

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD1 180-196495/2 I	09:08	100		100		100					
STD2 180-196495/3 I	09:13	94		94		89					
STD3 180-196495/4 I	09:18	96		97		97					
ICV 180-196495/5	09:23	94		94		92					
ICB 180-196495/6	09:29	100		98		100					
CRI 180-196495/7	09:34	98		99		100					
ICSA 180-196495/8	09:39	90		91		87					
ICSAB 180-196495/9	09:44	90		90		87					
CCV 180-196495/10	09:49	94		93		91					
CCB1 180-196495/11	09:54	97		98		99					
CCV 180-196495/46	12:52	85		86		87					
CCB4 180-196495/47	12:57	90		90		96					
180-61122-2	13:18	91		91		90					
CCV 180-196495/58	13:57	76		76		77					
CCB5 180-196495/59	14:03	77		77		81					

FORM XV - IN

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Batch Number: 195582 Batch Start Date: 11/22/16 08:00 Batch Analyst: Rosenbaum, Ron

Batch Method: 3050B Batch End Date: 11/28/16 09:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MTAPITTICPMS 00025	MTAPITTMSA 00032	MTAPITTMSC 00038
MB 180-195582/1		3050B, 6020A		CALC NOT SET TO RUN	1.00 g	100 mL			
LCS 180-195582/2		3050B, 6020A		CALC NOT SET TO RUN	1.00 g	100 mL	1 mL	1 mL	1 mL
180-61122-A-1	BGSB22-(0.0-0.5) -161122-S	3050B, 6020A	T	CALC NOT SET TO RUN	1.03 g	100 mL			
180-61122-A-1 MS	BGSB22-(0.0-0.5) -161122-S	3050B, 6020A	T	CALC NOT SET TO RUN	1.03 g	100 mL	1 mL	1 mL	1 mL
180-61122-A-1 MSD	BGSB22-(0.0-0.5) -161122-S	3050B, 6020A	T	CALC NOT SET TO RUN	0.99 g	100 mL	1 mL	1 mL	1 mL
180-61122-A-2	BGSB22-(1-2) -161122-S	3050B, 6020A	T	CALC NOT SET TO RUN	1.17 g	100 mL			
180-61122-A-3	BGSB10-(0.0-0.5) -161122-S	3050B, 6020A	T	CALC NOT SET TO RUN	1.26 g	100 mL			
180-61122-A-4	BGSB10-(1-2) -161122-S	3050B, 6020A	T	CALC NOT SET TO RUN	1.01 g	100 mL			

Batch Notes	
Balance ID	P1856710
Batch Comment	METALS B3
Blank Soil Lot Number	1736518
Filter Paper ID	FISHER 9656618
Hydrogen Peroxide ID	10ml 2101838
Lot # of hydrochloric acid	10ml 2120007
Logbook ID for diluted Nitric	10ml 2152083
Lot # of Nitric Acid	5ml 2142224
Hot Block ID	HB10
Nominal Amount Used	1g g
Pipette ID	J1102764U
Analyst ID - Reagent Drop Witness	RJR
Perform Calculation (0=No, 1=Yes)	0
Thermometer ID	311347 CF0.0 B2
Digestion Tube/Cup ID	ENVEXPRESS 1512329
Uncorrected Temperature	95C Celsius

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Batch Number: 195582 Batch Start Date: 11/22/16 08:00 Batch Analyst: Rosenbaum, Ron

Batch Method: 3050B Batch End Date: 11/28/16 09:30

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Batch Number: 195631 Batch Start Date: 12/01/16 12:20 Batch Analyst: Reichenbach, Emilie V

Batch Method: 7471B Batch End Date: 12/01/16 13:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MHgworkingCal 01435			
MB 180-195631/1		7471B, 7471B		0.60 g	100 mL				
LCS 180-195631/2		7471B, 7471B		0.60 g	100 mL	2.5 mL			
180-61122-A-1	BGSB22-(0.0-0.5) -161122-S	7471B, 7471B	T	0.60 g	100 mL				
180-61122-A-2	BGSB22-(1-2) -161122-S	7471B, 7471B	T	0.61 g	100 mL				
180-61122-A-3	BGSB10-(0.0-0.5) -161122-S	7471B, 7471B	T	0.61 g	100 mL				
180-61122-A-4	BGSB10-(1-2) -161122-S	7471B, 7471B	T	0.71 g	100 mL				

Batch Notes	
Hydroxylamine Hydrochloride ID	6ML 2161458 HG-DISP-C6
Aqua Regia ID	5ML 2164532
Balance ID	B508632873
Batch Comment	HG-DISP-05C4676
Blank Soil Lot Number	1736518
Hot Block ID	HB3
Potassium Persulfate ID	8ML 2162469 HG-DISP-KS4
Potassium Permanganate ID	15ML 2162467 HG-DISP-KMNO4
Pipette ID	B614292745
Stannous Chloride ID	2162473
Analyst ID - Spike Witness Analyst	EVR
Thermometer ID	IP33-14 0.0 E2 95C
Digestion Tube/Cup ID	ENVEXPRESS 1605323

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Batch Number: 196009 Batch Start Date: 12/01/16 12:10 Batch Analyst: Reichenbach, Emilie V

Batch Method: 7470A Batch End Date: 12/01/16 12:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MHgworkingCal 01435	MHgWorkingicv 01402		
ICV 180-196009/7		7470A, 7471B		100 mL	100 mL		2.5 mL		
ICB 180-196009/8		7470A, 7471B		100 mL	100 mL				
CRA 180-196009/9		7470A, 7471B		100 mL	100 mL	0.2 mL			
CCV 180-196009/10		7470A, 7471B		100 mL	100 mL	5 mL			
CCB 180-196009/11		7470A, 7471B		100 mL	100 mL				

Batch Notes	
Hydroxylamine Hydrochloride ID	6ML 2161458 HG-DISP-C6
Batch Comment	HG-DISP-05C4676 +5ML 2164532
Hot Block ID	HB1
Potassium Persulfate ID	8ML 2162469 HG-DISP-KS4
Potassium Permanganate ID	15ML 2162467 HG-DISP-KMNO4
Pipette ID	B614292745
Stannous Chloride ID	2162473
Analyst ID - Spike Witness Analyst	EVR
Temperature	95C
Thermometer ID	IP30-14 0.0 E95C22
Digestion Tube/Cup ID	ENVEXPRESS 1605323

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 180-61122-1

SDG No.:

Project: U.S. Oil Recovery Superfund Site

Client Sample ID	Lab Sample ID
BGSB22-(0.0-0.5)-161122-S	180-61122-1
BGSB22-(1-2)-161122-S	180-61122-2
BGSB10-(0.0-0.5)-161122-S	180-61122-3
BGSB10-(1-2)-161122-S	180-61122-4

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 180-61122-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 2540G RL Date: 01/31/2010 13:27

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 180-61122-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 2540G XRL Date: 01/31/2010 13:31

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

FORM IX - IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Instrument ID: NOEQUIP Analysis Method: 2540G

Start Date: 11/25/2016 11:02 End Date: 11/25/2016 11:02

Lab Sample Id	D/F	Type	Time	Analytes																							
				% Sol	Moist																						
ZZZZZZ			11:02																								
ZZZZZZ			11:02																								
ZZZZZZ			11:02																								
ZZZZZZ			11:02																								
ZZZZZZ			11:02																								
ZZZZZZ			11:02																								
ZZZZZZ			11:02																								
180-61122-1	1	T	11:02	X	X																						
180-61122-2	1	T	11:02	X	X																						
180-61122-3	1	T	11:02	X	X																						
180-61122-4	1	T	11:02	X	X																						
ZZZZZZ			11:02																								
ZZZZZZ			11:02																								
ZZZZZZ			11:02																								
ZZZZZZ			11:02																								
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ZZZZZZ			11:02																								
ZZZZZZ			11:02																								
ZZZZZZ			11:02																								
ZZZZZZ			11:02																								

Prep Types:
T = Total/NA

FORM XIII-IN

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-61122-1

SDG No.:

Batch Number: 195434 Batch Start Date: 11/25/16 11:02 Batch Analyst: Ruyechan, Roseann S

Batch Method: 2540G Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
180-61122-A-1	BGSB22-(0.0-0.5) -161122-S	2540G	T	C48hk 0.1178	2.54 g	10.23 g	9.61 g		
180-61122-A-2	BGSB22-(1-2) -161122-S	2540G	T	C48hj 0.1164	2.56 g	8.44 g	7.28 g		
180-61122-A-3	BGSB10-(0.0-0.5) -161122-S	2540G	T	C48ht 0.1156	2.54 g	11.42 g	10.60 g		
180-61122-A-4	BGSB10-(1-2) -161122-S	2540G	T	C48hu 0.1169	2.52 g	8.52 g	7.97 g		

Batch Notes	
Balance ID	1126472457 No Unit
Date and Time Samples in Desiccator	11/26/16 05:40
Date and Time Samples out of Desiccator	11/26/16 16:49
Date samples were placed in the oven	11/25/16
Oven Temp In	105 Degrees C
Time samples were place in the oven	1140
Date samples were removed from oven	11/26/16
Oven Temp Out	105 Degrees C
Time Samples were removed from oven	05:40
Oven ID	5005
Thermometer ID	WET34
Uncorrected In Temperature	105 Celsius
Uncorrected Out Temperature	105 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
Phone: 412.963.7058 Fax: 412.963.2870

Chain of Custody Record

169682

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-6210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: April Ballweg	Site Contact: April Ballweg	Date: 11/22/2016	COC No:
Company Name: EA ENGINEERING	Tel/Fax: 817-707-3252	Lab Contact: Carrie Gamber	Carrier: Test America	___ of ___ COCs
Address: 405 S. HIGHWAY 121, C-100	Analysis Turnaround Time			Sampler: A Ballweg
City/State/Zip: Lewisville, TX 75067	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
Phone: 972-459-5019	TAT if different from Below 5 days			Walk-in Client:
Fax: 972-316-5181	☐ 2 weeks			Lab Sample:
Project Name: US Oil Recovery RI/FS	☐ 1 week			
Site: USOR	☐ 2 days			
PO # 153077	☐ 1 day			

180-61122 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	SVOCs/PNA	Metals	Pesticides/Herbicides	Notes:
BGSB22-(0.0-0.5)-161122-S	11/22/16	0935	G	S	1			X	X	X	
BGSB22-(1-2)-161122-S	11/22/16	0940	G	S	1			X	X	X	
BGSB10-(0.0-0.5)-161122-S	11/22/16	1530	G	S	1			X	X	X	
BGSB10-(1-2)-161122-S	11/22/16	1535	G	S	1			X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
FedEx Tracking No. 7777 7318 7010

Custody Seals Intact: ☒ Yes ☐ No | Custody Seal No.: 296951 | Cooler Temp. (°C): Obs'd: ____ Corr'd: ____ Therm ID No.: ____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
April Ballweg	EA	11/22/16 1730	FedEx Drop Off	FedEx	11/22/16 1730
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
			Pauline Watson	TAP	11-23-16
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
					9:30

ORIGIN ID:KIPA (972) 315-3922
APRIL BALLWEG
EA ENGINEERING, SCIENCE & TECH
405 S. HWY 121 BYP BLDG. C, STE 100

LEWISVILLE, TX 75067
UNITED STATES US

SHIP DATE: 22NOV16
ACTWGT: 20.00 LB
CAD: 5681069/INET3790

BILL SENDER

TO SAMPLE RECEIVING
TEST AMERICA PITTSBURGH
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7058 REF: 2141_1430244_B_3
INV:
PO: DEPT:

944 5056 8140 4B

FedEx Express

WED - 23 NOV 3:00P
STANDARD OVERNIGHT

TRK# 0201 7777 7318 7010

NA AGCA

15238
PA-US PIT

Uncorrected temp 3.0/25 °C
Thermometer ID 9
CF 0.5 Initials ZN

PT-WI-SR-001 effective 7/26/13

160-611Z2 Waybill

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read a

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is result in additional billing charges along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, avai fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document yo timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for an value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage wh incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery c documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable i items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 180-61122-1

Login Number: 61122
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	