Table 1
Confirmatory Soil Samples
Metals and Cyanide Analytical Results
National Fuel Gas Mineral Springs Former Manufactured Gas Plant
Fence Replacement Area Corrective Measure
November 2013

Location ID Sample Date Sample ID SDG	CAS #	NYSDEC Restricted Use SCO - Residential	CS-1 11/7/2013 CS-1-20131107 480497511	CS-2 11/7/2013 CS-2-20131107 480497511	CS-3 11/7/2013 CS-3-20131107 480497511	CS-3 DUP 11/7/2013 CS-53-20131107 480497511	CS-4 11/7/2013 CS-4-20131107 480497511	CS-5 11/7/2013 CS-5-20131107 480497511	CS-6 11/8/2013 CS-6-20131108 480497511	CS-7 11/7/2013 CS-7-20131107 480497511
Metals (mg/Kg)										
ALUMINUM	7429-90-5	NL	NS	NS	3570 J	4180 J	13000 J	NS	4160 J	7510 J
ANTIMONY	7440-36-0	NL	NS	NS	1.9 J	1.9 J	2.1 J	NS	2.6 J	3.5 J
ARSENIC	7440-38-2	16	**32.1 J**	**55.1 J**	**19.7 J**	**22.2 J**	**31.7 J**	**50.4 J**	**26.1 J**	**23.8 J**
BARIUM	7440-39-3	350	NS	NS	98.7 J	112 J	186 J	NS	105 J	204 J
BERYLLIUM	7440-41-7	14	NS	NS	0.38	0.46	1.1	NS	0.47	1.0
CADMIUM	7440-43-9	2.5	NS	NS	1.9 J	2.2 J	1.7 J	NS	2.0 J	4.5 J
CALCIUM	7440-70-2	NL	NS	NS	3640 J	4000 J	16500 J	NS	4530 J	15500 J
CHROMIUM, HEXAVALENT	18540-29-9	22	NS	NS	3.4 J	< 6.2	2.8 J	NS	< 7.0	4.0 J
CHROMIUM, TOTAL	7440-47-3	NL	NS	NS	10.1 J	11.8 J	16.7 J	NS	13.6 J	20.8 J
COBALT	7440-48-4	NL	NS	NS	3.9 J	5.3 J	6.9 J	NS	5.1 J	5.7 J
COPPER	7440-50-8	270	NS	NS	110 J	131 J	211 J	NS	139 J	127 J
IRON	7439-89-6	NL	NS	NS	19100 J	21200 J	28000 J	NS	25200 J	35000 J
LEAD	7439-92-1	400	NS	NS	299 J	331 J	406 J	NS	359 J	1510 J
MAGNESIUM	7439-95-4	NL	NS	NS	1110 J	1140 J	1470 J	NS	1090 J	3580 J
MANGANESE	7439-96-5	2000	NS	NS	149 J	230 J	391 J	NS	219 J	354 J
MERCURY	7439-97-6	0.81	**0.32 J**	**0.42 J**	**0.22 J**	**0.33 J**	**0.30 J**	**0.32 J**	**0.17 J**	**0.30 J**
NICKEL	7440-02-0	140	NS	NS	11.3 J	12.8 J	16.8 J	NS	17.3 J	17.7 J
POTASSIUM	7440-09-7	NL	NS	NS	506 J	556 J	1200 J	NS	547 J	816 J
SELENIUM	7782-49-2	36	NS	NS	0.67 J	1.3 J	1.1 J	NS	1.9 J	2.0 J
SILVER	7440-22-4	36	NS	NS	0.38 J	0.40 J	0.65 J	NS	0.58 J	< 1.1
SODIUM	7440-23-5	NL	NS	NS	223	257	333	NS	398	406
THALLIUM	7440-28-0	NL	NS	NS	< 8.7	< 8.6	< 10.1	NS	< 10.6	< 12.9
VANADIUM	7440-62-2	NL	NS	NS	11.1 J	12.3 J	24.8 J	NS	14.0 J	13.5 J
ZINC	7440-66-6	2200	NS	NS	439 J	481 J	302 J	NS	508 J	1390 J
Cyanide (mg/Kg)										
CYANIDE	57-12-5	27	**115 J**	**45.3 J**	**84.7 J**	**170 J**	**26.6 J**	**47.1 J**	**105 J**	**216 J**

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Fence Replacement Area Corrective Measure
November 2013

Location ID Sample Date Sample ID SDG	CAS #	NYSDEC Restricted Use SCO - Residential	CS-8 11/8/2013 CS-8-20131108 480497511	CS-9 11/8/2013 CS-9-20131108 480497511	CS-10 11/7/2013 CS-10-20131107 480497511	CS-11 11/7/2013 CS-11-20131107 480497511	CS-12 11/7/2013 CS-12-20131107 480497511	CS-13 11/7/2013 CS-13-20131107 480497511	CS-14 11/7/2013 CS-14-20131107 480497511
Metals (mg/Kg)									
ALUMINUM	7429-90-5	NL	3820 J	6920 J	NS	NS	NS	NS	NS
ANTIMONY	7440-36-0	NL	8.1 J	3.1 J	NS	NS	NS	NS	NS
ARSENIC	7440-38-2	16	**39.8 J**	**16.9 J**	**35.1 J**	**15.1 J**	**2.8 J**	**2.7 J**	**9.1 J**
BARIUM	7440-39-3	350	195 J	150 J	NS	NS	NS	NS	NS
BERYLLIUM	7440-41-7	14	0.40	0.44	NS	NS	NS	NS	NS
CADMIUM	7440-43-9	2.5	2.3 J	5.6 J	NS	NS	NS	NS	NS
CALCIUM	7440-70-2	NL	10800 J	18000 J	NS	NS	NS	NS	NS
CHROMIUM, HEXAVALENT	18540-29-9	22	< 5.6	< 6.5	NS	NS	NS	NS	NS
CHROMIUM, TOTAL	7440-47-3	NL	13.6 J	18.0 J	NS	NS	NS	NS	NS
COBALT	7440-48-4	NL	6.4 J	6.3 J	NS	NS	NS	NS	NS
COPPER	7440-50-8	270	329 J	92.5 J	NS	NS	NS	NS	NS
IRON	7439-89-6	NL	35200 J	24800 J	NS	NS	NS	NS	NS
LEAD	7439-92-1	400	574 J	1110 J	NS	NS	NS	NS	NS
MAGNESIUM	7439-95-4	NL	1810 J	6130 J	NS	NS	NS	NS	NS
MANGANESE	7439-96-5	2000	311 J	342 J	NS	NS	NS	NS	NS
MERCURY	7439-97-6	0.81	**0.26 J**	**0.13 J**	**0.42 J**	**0.11 J**	**0.031 J**	**0.017 J**	**0.038 J**
NICKEL	7440-02-0	140	16.4 J	20.3 J	NS	NS	NS	NS	NS
POTASSIUM	7440-09-7	NL	488 J	998 J	NS	NS	NS	NS	NS
SELENIUM	7782-49-2	36	1.2 J	1.0 J	NS	NS	NS	NS	NS
SILVER	7440-22-4	36	1.1	0.41 J	NS	NS	NS	NS	NS
SODIUM	7440-23-5	NL	220	193 J	NS	NS	NS	NS	NS
THALLIUM	7440-28-0	NL	< 8.0	< 9.9	NS	NS	NS	NS	NS
VANADIUM	7440-62-2	NL	13.2 J	13.7 J	NS	NS	NS	NS	NS
ZINC	7440-66-6	2200	530 J	836 J	NS	NS	NS	NS	NS
Cyanide (mg/Kg)									
CYANIDE	57-12-5	27	**30.4 J**	**29.7 J**	**33.5 J**	**17.6 J**	< 0.97 UJ	< 0.99 UJ	**1.8 J**

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Fence Replacement Area Corrective Measure
November 2013

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Metals (mg/Kg)									
ALUMINUM	7429-90-5	NL	NS	NS	NS	NS	NS	NS	NS
ANTIMONY	7440-36-0	NL	NS	NS	NS	NS	NS	NS	NS
ARSENIC	7440-38-2	16	**16.3 J**	**13.0 J**	**6.1 J**	**11.8 J**	**46.0 J**	**8.7 J**	**11.5 J**
BARIUM	7440-39-3	350	NS	NS	NS	NS	NS	NS	NS
BERYLLIUM	7440-41-7	14	NS	NS	NS	NS	NS	NS	NS
CADMIUM	7440-43-9	2.5	NS	NS	NS	NS	NS	NS	NS
CALCIUM	7440-70-2	NL	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, HEXAVALENT	18540-29-9	22	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, TOTAL	7440-47-3	NL	NS	NS	NS	NS	NS	NS	NS
COBALT	7440-48-4	NL	NS	NS	NS	NS	NS	NS	NS
COPPER	7440-50-8	270	NS	NS	NS	NS	NS	NS	NS
IRON	7439-89-6	NL	NS	NS	NS	NS	NS	NS	NS
LEAD	7439-92-1	400	NS	NS	NS	NS	NS	NS	NS
MAGNESIUM	7439-95-4	NL	NS	NS	NS	NS	NS	NS	NS
MANGANESE	7439-96-5	2000	NS	NS	NS	NS	NS	NS	NS
MERCURY	7439-97-6	0.81	**0.44 J**	**0.31 J**	**0.059 J**	**0.062 J**	**0.087 J**	**0.095 J**	**0.013 J**
NICKEL	7440-02-0	140	NS	NS	NS	NS	NS	NS	NS
POTASSIUM	7440-09-7	NL	NS	NS	NS	NS	NS	NS	NS
SELENIUM	7782-49-2	36	NS	NS	NS	NS	NS	NS	NS
SILVER	7440-22-4	36	NS	NS	NS	NS	NS	NS	NS
SODIUM	7440-23-5	NL	NS	NS	NS	NS	NS	NS	NS
THALLIUM	7440-28-0	NL	NS	NS	NS	NS	NS	NS	NS
VANADIUM	7440-62-2	NL	NS	NS	NS	NS	NS	NS	NS
ZINC	7440-66-6	2200	NS	NS	NS	NS	NS	NS	NS
Cyanide (mg/Kg)									
CYANIDE	57-12-5	27	**0.97 J**	**12.4 J**	**0.69 J**	**1.9 J**	**60.0 J**	**13.0 J**	**9.8 J**

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Table 2
Confirmatory Soil Samples
Organic Compounds Analytical Results
National Fuel Gas Mineral Springs Former Manufactured Gas Plant
Fence Replacement Area Corrective Measure
November 2013

Location ID Sample Date Sample ID SDG	CAS #	NYSDEC Restricted Use SCO - Residential	CS-3 11/7/2013 CS-3-20131107 480497511	CS-3 DUP 11/7/2013 CS-53-20131107 480497511	CS-4 11/7/2013 CS-4-20131107 480497511	CS-6 11/8/2013 CS-6-20131108 480497511	CS-7 11/7/2013 CS-7-20131107 480497511	CS-8 11/8/2013 CS-8-20131108 480497511	CS-9 11/8/2013 CS-9-20131108 480497511
Volatile Organic Compounds (mg/Kg)									
1,1,1-TRICHLOROETHANE	71-55-6	100	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
1,1,2,2-TETRACHLOROETHANE	79-34-5	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
1,1,2-TRICHLOROETHANE	79-00-5	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
1,1-DICHLOROETHANE	75-34-3	19	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
1,1-DICHLOROETHENE	75-35-4	100	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
1,2,4-TRICHLOROBENZENE	120-82-1	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
1,2,4-TRIMETHYLBENZENE	95-63-6	47	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	106-93-4	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
1,2-DICHLOROBENZENE	95-50-1	100	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
1,2-DICHLOROETHANE	107-06-2	2.3	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
1,2-DICHLOROPROPANE	78-87-5	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	108-67-8	47	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
1,3-DICHLOROBENZENE	541-73-1	17	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
1,4-DICHLOROBENZENE	106-46-7	9.8	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
1,4-DIOXANE (P-DIOXANE)	123-91-1	9.8	< 0.26 UJ	< 0.27 UJ	< 0.31	< 0.37	< 0.47	< 0.26	< 0.32
2-HEXANONE	591-78-6	NL	< 0.032 UJ	< 0.034 UJ	< 0.039	< 0.046	< 0.058	< 0.032	< 0.04
ACETONE	67-64-1	100	< 0.032 UJ	< 0.034 UJ	< 0.039	< 0.046	< 0.058	< 0.032	< 0.04
BENZENE	71-43-2	2.9	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
BROMODICHLOROMETHANE	75-27-4	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
BROMOFORM	75-25-2	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077 UJ	< 0.0092 UJ	< 0.012 UJ	< 0.0065 UJ	< 0.0080
BROMOMETHANE	74-83-9	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
CARBON DISULFIDE	75-15-0	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
CARBON TETRACHLORIDE	56-23-5	1.4	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
CHLOROBENZENE	108-90-7	100	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
CHLOROETHANE	75-00-3	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
CHLOROFORM	67-66-3	10	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
CHLOROMETHANE	74-87-3	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
CIS-1,2-DICHLOROETHYLENE	156-59-2	59	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
CIS-1,3-DICHLOROPROPENE	10061-01-5	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
CYCLOHEXANE	110-82-7	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
DIBROMOCHLOROMETHANE	124-48-1	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
DICHLORODIFLUOROMETHANE	75-71-8	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
ETHYLBENZENE	100-41-4	30	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
ISOPROPYLBENZENE (CUMENE)	98-82-8	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
METHYL ACETATE	79-20-9	NL	< 0.0064	< 0.0068	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
METHYL ETHYL KETONE (2-BUTANONE)	78-93-3	100	< 0.032 UJ	< 0.034 UJ	< 0.039	< 0.046	< 0.058	< 0.032	< 0.04

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METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	NL	< 0.032 UJ	< 0.034 UJ	< 0.039	< 0.046	< 0.058	< 0.032	< 0.04
METHYLCYCLOHEXANE	108-87-2	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
METHYLENE CHLORIDE	75-09-2	51	< 0.0064	< 0.0068	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
N-BUTYLBENZENE	104-51-8	100	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
N-PROPYLBENZENE	103-65-1	100	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
SEC-BUTYLBENZENE	135-98-8	100	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
STYRENE	100-42-5	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
T-BUTYLBENZENE	98-06-6	100	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
TERT-BUTYL METHYL ETHER	1634-04-4	62	< 0.0064	< 0.0068	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
TETRACHLOROETHYLENE(PCE)	127-18-4	5.5	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
TOLUENE	108-88-3	100	< 0.0064 UJ	< 0.0068 UJ	< 0.0077 UJ	< 0.0092 UJ	< 0.012 UJ	< 0.0065 UJ	< 0.0080
TRANS-1,2-DICHLOROETHENE	156-60-5	100	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
TRANS-1,3-DICHLOROPROPENE	10061-02-6	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
TRICHLOROETHYLENE (TCE)	79-01-6	10	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
TRICHLOROFLUOROMETHANE	75-69-4	NL	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
VINYL CHLORIDE	75-01-4	0.21	< 0.0064 UJ	< 0.0068 UJ	< 0.0077	< 0.0092	< 0.012	< 0.0065	< 0.0080
XYLENES, TOTAL	XYLENES	NL	< 0.013 UJ	< 0.014 UJ	< 0.015	< 0.018	< 0.023	< 0.013	< 0.016
Polycyclic Aromatic Hydrocarbons (mg/Kg)									
2-METHYLNAPHTHALENE	91-57-6	NL	< 1.2	**0.016 J**	**0.032 J**	**0.078 J**	< 3.3	**0.19 J**	**0.022 J**
ACENAPHTHENE	83-32-9	100	< 1.2	< 0.26	**0.0075 J**	< 0.59	< 3.3	**0.014 J**	**0.015 J**
ACENAPHTHYLENE	208-96-8	100	< 1.2	**0.040 J**	**0.090 J**	**0.24 J**	< 3.3	**0.61 J**	**0.053 J**
ANTHRACENE	120-12-7	100	**0.072 J**	**0.023 J**	**0.048 J**	**0.16 J**	< 3.3	**0.35 J**	**0.064 J**
BENZO(A)ANTHRACENE	56-55-3	1	**0.38 J**	**0.17 J**	**0.33**	**1.1**	**0.92 J**	**3.3**	**0.40**
BENZO(A)PYRENE	50-32-8	1	**0.30 J**	**0.16 J**	**0.31**	**1.2**	**0.91 J**	**3.9**	**0.42**
BENZO(B)FLUORANTHENE	205-99-2	1	**0.62 J**	**0.33**	**0.54**	**2.8**	**1.8 J**	**7.6**	**0.59**
BENZO(G,H,I)PERYLENE	191-24-2	100	**0.086 J**	**0.062 J**	**0.12 J**	**0.44 J**	**0.42 J**	**1.3**	**0.14 J**
BENZO(K)FLUORANTHENE	207-08-9	1	**0.19 J**	**0.13 J**	**0.21 J**	**0.84**	**0.71 J**	**2.5**	**0.23 J**
CHRYSENE	218-01-9	1	**0.37 J**	**0.20 J**	**0.35**	**1.3**	**0.98 J**	**3.6**	**0.43**
DIBENZ(A,H)ANTHRACENE	53-70-3	0.33	< 1.2 UJ	**0.020 J**	**0.040 J**	< 0.59	< 3.3	< 1.2	< 0.27
FLUORANTHENE	206-44-0	100	**0.54 J**	**0.25 J**	**0.44**	**1.4**	**0.92 J**	**3.5**	**0.67**
FLUORENE	86-73-7	100	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	**0.022 J**
INDENO(1,2,3-C,D)PYRENE	193-39-5	0.5	**0.087 J**	**0.058 J**	**0.11 J**	**0.41 J**	**0.29 J**	**1.2**	**0.13 J**
NAPHTHALENE	91-20-3	100	< 1.2	< 0.26	**0.029 J**	< 0.59	< 3.3	**0.21 J**	**0.029 J**
PHENANTHRENE	85-01-8	100	**0.32 J**	**0.092 J**	**0.19 J**	**0.55 J**	**0.27 J**	**1.0 J**	**0.30**
PYRENE	129-00-0	100	**0.49 J**	**0.21 J**	**0.45**	**1.2**	**0.86 J**	**5.0 J**	**0.60**
Semi-Volatile Organic Compounds (mg/Kg)									
2,4,5-TRICHLOROPHENOL	95-95-4	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
2,4,6-TRICHLOROPHENOL	88-06-2	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
2,4-DICHLOROPHENOL	120-83-2	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
2,4-DIMETHYLPHENOL	105-67-9	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
2,4-DINITROPHENOL	51-28-5	NL	< 2.3	< 0.51	< 0.54	< 1.1	< 6.4	< 2.3	< 0.52
2,4-DINITROTOLUENE	121-14-2	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
2,6-DINITROTOLUENE	606-20-2	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
2-CHLORONAPHTHALENE	91-58-7	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
2-CHLOROPHENOL	95-57-8	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
2-METHYLPHENOL (O-CRESOL)	95-48-7	100	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
2-NITROANILINE	88-74-4	NL	< 2.3	< 0.51	< 0.54	< 1.1	< 6.4	< 2.3	< 0.52
2-NITROPHENOL	88-75-5	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
3,3'-DICHLOROBENZIDINE	91-94-1	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27

Table 2
Confirmatory Soil Samples
Organic Compounds Analytical Results
National Fuel Gas Mineral Springs Former Manufactured Gas Plant
Fence Replacement Area Corrective Measure
November 2013

Location ID Sample Date Sample ID SDG	CAS #	NYSDEC Restricted Use SCO - Residential	CS-3 11/7/2013 CS-3-20131107 480497511	CS-3 DUP 11/7/2013 CS-53-20131107 480497511	CS-4 11/7/2013 CS-4-20131107 480497511	CS-6 11/8/2013 CS-6-20131108 480497511	CS-7 11/7/2013 CS-7-20131107 480497511	CS-8 11/8/2013 CS-8-20131108 480497511	CS-9 11/8/2013 CS-9-20131108 480497511
3-NITROANILINE	99-09-2	NL	< 2.3 UJ	< 0.51 UJ	< 0.54	< 1.1	< 6.4	< 2.3	< 0.52
4,6-DINITRO-2-METHYLPHENOL	534-52-1	NL	< 2.3	< 0.51	< 0.54	< 1.1	< 6.4	< 2.3	< 0.52
4-BROMOPHENYL PHENYL ETHER	101-55-3	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
4-CHLORO-3-METHYLPHENOL	59-50-7	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
4-CHLOROANILINE	106-47-8	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
4-METHYLPHENOL (P-CRESOL)	106-44-5	34	< 2.3	< 0.51	< 0.54	< 1.1	< 6.4	< 2.3	< 0.52
4-NITROANILINE	100-01-6	NL	< 2.3 UJ	< 0.51 UJ	< 0.54	< 1.1	< 6.4	< 2.3	< 0.52
4-NITROPHENOL	100-02-7	NL	< 2.3	< 0.51	< 0.54	< 1.1	< 6.4	< 2.3	< 0.52
ACETOPHENONE	98-86-2	NL	< 1.2 UJ	< 0.26 UJ	< 0.28 UJ	< 0.59 UJ	< 3.3 UJ	< 1.2 UJ	< 0.27 UJ
ATRAZINE	1912-24-9	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
BENZALDEHYDE	100-52-7	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
BENZYL BUTYL PHTHALATE	85-68-7	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
BIPHENYL (DIPHENYL)	92-52-4	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
BIS(2-CHLOROETHOXY) METHANE	111-91-1	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	NL	< 1.2	< 0.26	< 0.28	< 0.59 UJ	< 3.3 UJ	< 1.2	< 0.27
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	NL	< 1.2	< 0.26	< 0.28	< 0.59	**1.3 J**	< 1.2	< 0.27
CAPROLACTAM	105-60-2	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
CARBAZOLE	86-74-8	NL	< 1.2	**0.015 J**	**0.025 J**	**0.088 J**	< 3.3	**0.098 J**	**0.038 J**
DIBENZOFURAN	132-64-9	14	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	**0.069 J**	< 0.27
DIETHYL PHTHALATE	84-66-2	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
DIMETHYL PHTHALATE	131-11-3	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
DI-N-BUTYL PHTHALATE	84-74-2	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
DI-N-OCTYLPHTHALATE	117-84-0	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
HEXACHLOROBENZENE	118-74-1	0.33	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
HEXACHLOROBUTADIENE	87-68-3	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
HEXACHLOROCYCLOPENTADIENE	77-47-4	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
HEXACHLOROETHANE	67-72-1	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
ISOPHORONE	78-59-1	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
NITROBENZENE	98-95-3	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
N-NITROSODI-N-PROPYLAMINE	621-64-7	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
N-NITROSODIPHENYLAMINE	86-30-6	NL	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27
PENTACHLOROPHENOL	87-86-5	2.4	< 2.3	< 0.51	< 0.54	< 1.1	< 6.4	< 2.3	< 0.52
PHENOL	108-95-2	100	< 1.2	< 0.26	< 0.28	< 0.59	< 3.3	< 1.2	< 0.27

Notes:
<0.010 = Not detected above given laboratory reporting limit.
Bold = Detected above reporting limit.
Gray highlighted cells exceed NYSDEC Part 375-6.8 Restricted Residential SCO's
NL = No limit has been established for analyte
SCO = Soil Cleanup Objectives, 6NYCRR Part 375-6.8, Remedial Program Soil Cleanup Objectives, Restricted Use Soil Cleanup Objectives - Residential, Table 375-6.8b, December 2006.
SDG - Sample Delivery Group
J = Concentration is estimated
UJ = Not detected. Quantation limit is estimated

Table 3
Residential Soil Samples
Metals and Cyanide Analytical Results
National Fuel Gas Mineral Springs Former Manufactured Gas Plant
Fence Replacement Area Corrective Measure
November 2013

Location ID Sample Date Sample ID SDG	CAS #	NYSDEC Restricted Use SCO - Residential	RS-1 11/7/2013 RS-1-20131107 480497511	RS-1 DUP 11/7/2013 RS-5-20131107 480497511	RS-2 11/7/2013 RS-2-20131107 480497511	RS-3 11/7/2013 RS-3-20131107 480497511	RS-4 11/7/2013 RS-4-20131107 480497511
Metals (mg/Kg)							
ARSENIC	7440-38-2	16	**10.3 J**	**8.4 J**	**10.7 J**	**8.6 J**	**6.7 J**
MERCURY	7439-97-6	0.81	**0.40 J**	**0.35 J**	**0.34 J**	**0.13 J**	**0.086**
Cyanide (mg/Kg)							
CYANIDE	57-12-5	27	**15.4 J**	**67.2 J**	**12.2 J**	**28.2 J**	**1.9 J**

Notes:
Gray highlighted cells exceed NYSDEC Part 375-6.8 Restricted Residential SCO's
Bold = Detected above reporting limit.
mg/Kg = Milligrams per kilogram
SCO = Soil Cleanup Objectives, 6NYCRR Part 375-6.8, Remedial Program Soil Cleanup Objectives, Restricted Use Soil Cleanup Objectives - Residential, Table 375-6.8b, December 2006.
SDG = Sample Delivery Group
J = Result is an estimate

AECOM Environment

Submitted to:
National Fuel Gas Company
Williamsville, New York

Submitted by:
AECOM
Pittsburgh, Pennsylvania
60250836 -400.4.1
December 2013

Data Usability Summary Report
Mineral Springs Road Former MGP Site
TestAmerica Job Number: 480-49751-1
November 2013 Confirmation and Residential Soil Samples
Final

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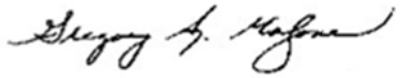

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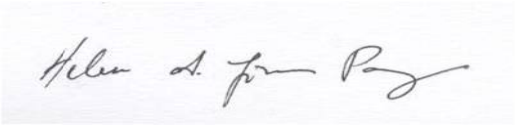

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East Syracuse, NY 13057

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List of Appendices

Executive Summary

Data validation was performed by Gregory A. Malzone of AECOM-Pittsburgh on one data package from TestAmerica Laboratories, Inc. (TestAmerica Buffalo), 10 Hazelwood Drive, Amherst, NY 14228-2298 for the analysis of soil samples collected on November 7-8, 2013 at the Mineral Springs Road former manufactured gas plant (MGP) site in West Seneca (Buffalo), New York.

TestAmerica-Buffalo processed the samples and reported the results under job number 480-49751-1.

The following analytical methods were requested on the chain-of-custody (CoC) records:

- Volatile Organic Compounds (VOCs): USEPA SW-846 Method 8260C
- Semivolatile Organic Compounds (SVOCs): USEPA SW-846 Method 8270D
- Trace Metals: USEPA SW-846 Methods 6010C & 7471B
- Total Cyanide: USEPA SW-846 Method 9012B
- Hexavalent Chromium: USEPA SW-846 Methods 3060A and 7196A
- USEPA Percent Moisture/Solids for dry weight corrections.

The hexavalent chromium analyses were performed by TestAmerica-Canton.

The data were evaluated for conformance to method specifications and qualifiers were applied using the USEPA Region II SOPs and the validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-07-003, July 2008, with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, EPA 540/R-99-008, May 1999 and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, USEPA-540-R-10-011, January 2010, as they apply to the analytical methods employed. Field duplicate RPD review and applicable control limits were taken from the *USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, December 1996.

Table 1 provides a sample submittal list with the field IDs cross-referenced with the TestAmerica-Buffalo IDs.

Table 1
Soil Sample Submittals – Mineral Springs Former MGP

Field ID	TestAmerica ID	Matrix	Date Sampled	TestAmerica Job Number
CS-17	480-49751-19	Soil	11/7/2013	480-49751-1
CS-21	480-49751-20	Soil	11/7/2013	480-49751-1
CS-18	480-49751-21	Soil	11/7/2013	480-49751-1
CS-16	480-49751-22	Soil	11/7/2013	480-49751-1
CS-15	480-49751-23	Soil	11/7/2013	480-49751-1
CS-20	480-49751-24	Soil	11/7/2013	480-49751-1
CS-19	480-49751-25	Soil	11/7/2013	480-49751-1
CS-14	480-49751-26	Soil	11/7/2013	480-49751-1
CS-13	480-49751-27	Soil	11/7/2013	480-49751-1
CS-12	480-49751-28	Soil	11/7/2013	480-49751-1
CS-11	480-49751-29	Soil	11/7/2013	480-49751-1
CS-10	480-49751-30	Soil	11/7/2013	480-49751-1
CS-5	480-49751-31	Soil	11/7/2013	480-49751-1
CS-2	480-49751-32	Soil	11/7/2013	480-49751-1
CS-1	480-49751-33	Soil	11/7/2013	480-49751-1
RS-1	480-49751-34	Soil	11/7/2013	480-49751-1
RS-1 MS	480-49751-34MS	Soil (QC)	11/7/2013	480-49751-1
RS-1 MSD	480-49751-34MSD	Soil (QC)	11/7/2013	480-49751-1
RS-2	480-49751-35	Soil	11/7/2013	480-49751-1
RS-3	480-49751-36	Soil	11/7/2013	480-49751-1
RS-4	480-49751-37	Soil	11/7/2013	480-49751-1
RS-5	480-49751-38	Soil (QC)	11/7/2013	480-49751-1
CS-3	480-49751-39	Soil	11/7/2013	480-49751-1
CS-3 MS	480-49751-39MS	Soil (QC)	11/7/2013	480-49751-1
CS-3 MSD	480-49751-39MSD	Soil (QC)	11/7/2013	480-49751-1
CS-53	480-49751-40	Soil (QC)	11/7/2013	480-49751-1
CS-4	480-49751-41	Soil	11/7/2013	480-49751-1
CS-7	480-49751-42	Soil	11/7/2013	480-49751-1
CS-6	480-49751-43	Soil	11/8/2013	480-49751-1
CS-8	480-49751-44	Soil	11/8/2013	480-49751-1
CS-9	480-49751-45	Soil	11/8/2013	480-49751-1
TRIP BLANK	480-49751-47	Aqueous (QC)	11/8/2013	480-49751-1

Summary

Data quality for the organic analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD), laboratory control standards (LCSs), laboratory blanks, laboratory and field duplicates, compound identification, and compound quantitation.

Inorganic data quality was evaluated by reviewing the following parameters: holding times, matrix spikes, initial calibrations, continuing calibration verification standard recoveries, contract required detection limit standard recoveries, laboratory control samples, ICP interference check sample recoveries, ICP serial dilution results, field and laboratory duplicates, laboratory blanks, and analyte quantitation.

All soil data have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the compounds/analytes in the media tested (i.e., soil) with the qualifications described below. No data points were rejected. Completeness of 100% was achieved for this soil data set. This is within the goal of 90-100% and is acceptable.

The data qualifier summaries are attached as Appendix B of this report. A glossary of data qualifier definitions is included in Appendix A of this report. Each noncompliance with specific data usability criteria is discussed below. Support documentation for data qualifications was included in Appendix C of this report. Specific page references for the supporting documentation in the laboratory reports were provided in each item header.

1.0 Volatile Organic Compounds

480-49751-1

Calibrations (pp. 363-364, 378-379): The continuing calibration percent differences for toluene and bromoform were less than the lower quality control limit of -20% on 11/12/13 at 09:47 on instrument HP5973F. The toluene and bromoform results for associated samples CS-3, CS-53, CS-4, CS-6, CS-7 and CS-8 were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

The continuing calibration percent difference for trichlorofluoromethane was greater than the upper quality control limit of 20% on 11/13/13 at 10:41 on instrument HP5973F. The trichlorofluoromethane result for associated sample CS-9 was non-detect and did not require qualification in response to the high instrument bias.

Matrix Spike Recoveries (pp. 182-183, Revised Form III): Sample CS-3 was designated in the field to be processed as the quality control sample. The CS-3 MS/MSD recoveries for all target compounds except methyl acetate, MTBE and methylene chloride were less than the lower advisory limits, but greater than 10%. The CS-3 and CS-53 (field duplicate) results for all target compounds except methyl acetate, MTBE and methylene chloride were non-detect and were qualified "UJ," as estimates, because of low bias attributable to matrix effects.

2.0 Semivolatile Organic Compounds

480-49751-1

Laboratory Control Sample Recoveries (pp.824-826): The LCS 480-151640/2-A recovery for acetophenone was less than the lower quality control limit, but greater than 10% (65.2%). The acetophenone results for associated samples CS-3, CS-53, CS-4, CS-6, CS-7, CS-8 and CS-9 were non-detect and were qualified "UJ," as estimates, because of low method bias.

Calibrations (pp. 731-732,743-744, 752, 755-756): The continuing calibration percent differences for hexachlorobutadiene and 4-nitrophenol were greater than the upper quality control limit of 20% on 11/16/13 at 12:15 on instrument HP5973U. The hexachlorobutadiene and 4-nitrophenol results for associated sample CS-3 were non-detect and did not require qualification in response to the high instrument bias.

The continuing calibration percent differences/drifts for benzaldehyde and 4-nitrophenol were greater than the upper quality control limit of 20% on 11/18/13 at 14:28 and 14:04 on instrument HP5973U. The benzaldehyde and 4-nitrophenol results for associated samples CS-4, CS-53, CS-8 and CS-9 were non-detect and did not require qualification in response to the high instrument bias.

The continuing calibration percent difference for bis(2-chloroisopropyl)ether was less than the lower quality control limit of -20% on 11/19/13 at 02:52 on instrument HP5973U. The bis(2-chloroisopropyl)ether results for associated samples CS-6 and CS-7 were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

The continuing calibration percent difference for 4-nitrophenol was greater than the upper quality control limit of 20% on 11/19/13 at 02:52 on instrument HP5973U. The 4-nitrophenol results for associated samples CS-6 and CS-7 were non-detect and did not require qualification in response to the high instrument bias.

Dilutions: The extracts for samples CS-3, CS-6, CS-7 and CS-8 required analysis at an initial two to five-fold dilution to minimize matrix interference. The surrogate recoveries were within the quality control limits. No data qualifications were required. The initial dilutions elevated the method detection limits and the reporting limits.

Matrix Spike Recoveries (pp. 486-487, Revised Form III): Sample CS-3 was designated in the field to be processed as the quality control sample. The CS-3 MS/MSD recoveries for 3-nitroaniline, 4-nitroaniline, benzo(g,h,i)perylene, dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene were less than the lower advisory limits, but greater than 10%. The RPDs between the MS and MSD recoveries for benzo(g,h,i)perylene, dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene were greater than the maximum advisory limits. The positive and non-detect CS-3 and CS-53 (field duplicate) results for 3-nitroaniline, 4-nitroaniline, benzo(g,h,i)perylene, dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene were qualified "J/UJ," as estimates, because of low bias and imprecision attributable to matrix effects.

3.0 Trace Metals

480-49751-1

Blank Contamination (p. 897): Calcium and zinc were detected in the 11/11/13 method blank associated with preparation batch 150963 at concentrations estimated below the reporting limits. The calcium and zinc results for associated samples CS-3, CS-53, CS-4, CS-6, CS-7, CS-8 and CS-9 were greater than ten times the blank concentrations. No data qualifications were required. The "B" flags appended by the laboratory were removed as unnecessary.

Calibrations (pp. 884, 887): The continuing calibration reporting limit standard recoveries for arsenic were greater than the upper quality control limit of 130% on 11/17/13 at 16:16, 17:42 and 18:38 on instrument ICAP1. All samples were affected. *Note: The CRI standard, prepared at two times the reporting limit, had a recovery for arsenic that was acceptable.* The positive arsenic results for associated samples CS-12, CS-13, RS-1, RS-4 and RS-5 were less than two times the reporting limit and were qualified "J," as estimated concentrations, because of high method bias. Arsenic results greater than two times the reporting limits were not qualified and the "^" flags appended by the laboratory were removed as unnecessary.

Matrix Spike Recoveries and RPDs (pp.906, 908, 910): Sample CS-3 was designated in the field to be processed as the quality control sample. The CS-3 MS and/or MSD recoveries for aluminum, barium, calcium, copper, manganese and potassium were greater than the upper advisory limits. The RPD between the CS-3 MS and MSD recoveries for manganese was greater than the maximum advisory limit. The post-digestion spike recoveries for aluminum, barium, calcium, copper, manganese and potassium were less than 125%. The positive aluminum, barium, calcium, copper, manganese and potassium results for associated samples CS-3, CS-53, CS-4, CS-6, CS-7, CS-8 and CS-9 were qualified "J," as estimated concentrations, because of high bias (and imprecision for Mn) attributable to matrix effects.

ICP Serial Dilution (p. 916): The ICP serial dilution analysis was performed on sample CS-3. The percent differences between the original and diluted results were greater than the validation limit of 10% for aluminum, arsenic, barium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, vanadium and zinc. The aluminum, arsenic, barium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, vanadium and zinc results for all confirmation (CS) samples were positive and were qualified "J/UJ," as estimates, because of the presence of physical/chemical interference.

4.0 Total Cyanide

480-49751-1

Blank Contamination (p. 1760): Total cyanide was detected in the 11/12/13 method blank associated with preparation batch 151592 at a concentration of 1.21 mg/kg. The total cyanide results for the associated samples were either non-detect (CS-13) or greater than ten times the blank concentration (CS-11 and CS-19). No data qualifications were required in response to this method blank contamination.

Matrix Spike Recoveries (pp.1762-1763): Sample RS-1 was designated in the field to be processed as the quality control sample. The RS-1 MS/MSD recoveries for total cyanide were greater than the upper advisory limit. The total cyanide results for residential soil samples RS-1, RS-2, RS-3, RS-4 and RS-5 were positive and were qualified "J," as estimated concentrations, because of high method bias and/or high bias due to matrix interference.

5.0 Hexavalent Chromium

480-49751-1

Blank Contamination (p. 1759): All soil samples for hexavalent chromium were analyzed at a five-fold dilution to minimize matrix interference. The dilutions raised the detection limits. Hexavalent chromium was detected in the continuing calibration blanks at concentrations of 0.276 mg/kg each. The positive hexavalent chromium results for associated samples CS-3, CS-4 and CS-7 were less than ten times the blank concentration and were qualified "J," as estimated concentrations, because of possible high bias due to matrix interference and/or ambient contamination.

6.0 Field Duplicate Precision

Field duplicate samples were collected for CS-3 and RS-1. Field duplicate results were evaluated using the following criteria.

Organics: The RPD must be ≤ 50% for soil/sediments, or the difference between the parent and field duplicate results must be less than the reporting limit for results less than five times the reporting limit.

Inorganics: The RPD must be ≤ 35% for soil/sediments, or the difference between the parent and field duplicate results must be less than twice the reporting limit for results less than five times the reporting limit.

The results for the parent and field duplicate samples were non-detects, with exception to those listed in Table 2 below. All RPDs were less than the maximum advisory limits or the difference criteria were met for all compounds/analytes except those listed in bolded text. In the case of nonconforming field duplicate precision, for organic compounds the parent and field duplicate sample results are qualified "J/UJ", for nonconforming inorganic parameters all results of a similar matrix in the SDG are qualified "J/UJ," as estimates, because of field sampling/laboratory imprecision and/or sample heterogeneity.

The following notations are used in the field precision tables.

RPD: Relative percent difference

NC: RPD could not be calculated

±RL, ±2RL: The difference between the parent and field duplicate results was less than the reporting limit (twice the reporting limit for metals) for results less than five times the reporting limit. Variation of this magnitude is acceptable.

µg/kg: micrograms per kilogram (ppb); mg/kg: milligrams per kilogram (ppm)

Table 2
Field Duplicate Precision – Mineral Springs Former MGP Site

SDG	Method	Units	Analyte	RS-1	RS-5	RPD	Qualifier
480-49751-1	6010C	mg/kg	Arsenic	10.3	8.4	20	
480-49751-1	7471B	mg/kg	Mercury	0.40	0.35	13	
480-49751-1	**9012B**	**mg/kg**	**Cyanide, Total**	**15.4**	**67.2**	**125**	**J**
480-49751-1	Solids	%	Percent Solids	30	32	6.5	
SDG	**Method**	**Units**	**Analyte**	**CS-3**	**CS-53**	**RPD**	**Qualifiers**
480-49751-1	8270D	µg/kg	2-Methylnapthalene	1200 U	16 J	NC	±RL
480-49751-1	8270D	µg/kg	Acenaphthylene	1200 U	40 J	NC	±RL
480-49751-1	8270D	µg/kg	Anthracene	72 J	23 J	103	±RL
480-49751-1	8270D	µg/kg	Benzo(a)anthracene	380 J	170 J	76	±RL
480-49751-1	8270D	µg/kg	Benzo(a)pyrene	300 J	160 J	61	±RL
480-49751-1	8270D	µg/kg	Benzo(b)fluoranthene	620 J	330 J	61	±RL
480-49751-1	8270D	µg/kg	Benzo(g,h,i)perylene	86 J	62 J	32	
480-49751-1	8270D	µg/kg	Benzo(k)fluoranthene	190 J	130 J	38	
480-49751-1	8270D	µg/kg	Carbazole	1200 U	15 J	NC	±RL
480-49751-1	8270D	µg/kg	Chrysene	370 J	200 J	60	±RL
480-49751-1	8270D	µg/kg	Dibenz(a,h)anthracene	1200 U	20 J	NC	±RL
480-49751-1	8270D	µg/kg	Fluoranthene	540 J	250 J	73	±RL
480-49751-1	8270D	µg/kg	Indeno(1,2,3-c,d)pyrene	87 J	58 J	40	
480-49751-1	8270D	µg/kg	Phenanthrene	320 J	92 J	111	±RL
480-49751-1	8270D	µg/kg	Pyrene	490 J	210 J	80	±RL
480-49751-1	6010C	mg/kg	Aluminum	3570	4180	16	
480-49751-1	6010C	mg/kg	Antimony	1.9 J	1.9 J	0	
480-49751-1	6010C	mg/kg	Arsenic	19.7	22.2	12	
480-49751-1	6010C	mg/kg	Barium	98.7	112	13	
480-49751-1	6010C	mg/kg	Beryllium	0.38	0.46	19	
480-49751-1	6010C	mg/kg	Cadmium	1.9	2.2	15	
480-49751-1	6010C	mg/kg	Calcium	3640	4000	9.4	
480-49751-1	6010C	mg/kg	Chromium	10.1	11.8	15	
480-49751-1	6010C	mg/kg	Cobalt	3.9	5.3	30	
480-49751-1	6010C	mg/kg	Copper	110	131	17	
480-49751-1	6010C	mg/kg	Iron	19100	21200	10	
480-49751-1	6010C	mg/kg	Lead	299	331	10	
480-49751-1	6010C	mg/kg	Magnesium	1110	1140	2.7	
480-49751-1	**6010C**	**mg/kg**	**Manganese**	**149**	**230**	**43**	**J**
480-49751-1	6010C	mg/kg	Nickel	11.3	12.8	12	
480-49751-1	6010C	mg/kg	Potassium	506	556	9.4	
480-49751-1	6010C	mg/kg	Selenium	0.67 J	1.3 J	64	±2RL
480-49751-1	6010C	mg/kg	Silver	0.38 J	0.40 J	5.1	

Table 2 (Continued)
Field Duplicate Precision – Mineral Springs Former MGP Site

SDG	Method	Units	Analyte	CS-3	CS-53	RPD	Qualifiers
480-49751-1	6010C	mg/kg	Sodium	223	257	14	
480-49751-1	6010C	mg/kg	Vanadium	11.1	12.3	10	
480-49751-1	6010C	mg/kg	Zinc	439	481	9.1	
480-49751-1	**6010C**	**mg/kg**	**Mercury**	**0.22**	**0.33**	**40**	**J**
480-49751-1	7196A	mg/kg	Chromium, Hexavalent	3.4 J	6.2 U	NC	±2RL
480-49751-1	**9012B**	**mg/kg**	**Cyanide, Total**	**84.7**	**170**	**67**	**J**
480-49751-1	Moisture	%	Percent Solids	70	64	9.0	

7.0 Notes

Positive organic results less than the reporting limit (i.e., practical quantitation limit), but greater than the method detection limit (MDL) were qualified "J," as estimated concentrations, due to increased uncertainty near the detection limit. These "J" qualifiers were maintained in this data validation.

Matrix spike and matrix spike duplicates, laboratory duplicates, and ICP serial dilutions that were performed on non-project samples were not evaluated because matrix similarity to project samples could not be assumed.

Percent Solids: The percent solids evaluation criteria are based on USEPA Region 2 guidance as indicated in the table below.

Criteria	Action	
	Detected Results	**Non-detect Results**
% Solids ≥ 50%	No qualification	No qualification
10% ≤% Solids <50%	J	UJ
% Solids < 10%	J	R

The percent solids were less than 50%, but greater than 10%, for samples RS-1 (30.5%), RS-2 (43.2%), RS-3 (45.5%) and RS-5 (32.0 %). All positive and non-detect results for these samples were qualified "J/UJ," as estimates.

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ (Inorganics) The result is an estimated quantity, likely to be biased high. The associated numerical value is the approximate concentration of the analyte in the sample.

J- (Inorganics) The result is an estimated quantity, likely to be biased low. The associated numerical value is the approximate concentration of the analyte in the sample.

R The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

N (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ (Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-3 Lab Sample ID: 480-49751-39

Matrix: Solid Lab File ID: F3529.D

Analysis Method: 8260C Date Collected: 11/07/2013 15:30

Sample wt/vol: 5.6(g) Date Analyzed: 11/12/2013 13:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 30.3 Level: (low/med) Low

Analysis Batch No.: 151404 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	6.4	UJ	6.4	0.46	ms ↓
79-34-5	1,1,2,2-Tetrachloroethane	6.4	UJ	6.4	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.4	UJ	6.4	1.5	
79-00-5	1,1,2-Trichloroethane	6.4	UJ	6.4	0.83	
75-34-3	1,1-Dichloroethane	6.4	UJ	6.4	0.78	
75-35-4	1,1-Dichloroethene	6.4	UJ	6.4	0.78	
120-82-1	1,2,4-Trichlorobenzene	6.4	UJ	6.4	0.39	
95-63-6	1,2,4-Trimethylbenzene	6.4	UJ	6.4	1.2	
96-12-8	1,2-Dibromo-3-Chloropropane	6.4	UJ	6.4	3.2	
106-93-4	1,2-Dibromoethane	6.4	UJ	6.4	0.82	
95-50-1	1,2-Dichlorobenzene	6.4	UJ	6.4	0.50	
107-06-2	1,2-Dichloroethane	6.4	UJ	6.4	0.32	
78-87-5	1,2-Dichloropropane	6.4	UJ	6.4	3.2	
108-67-8	1,3,5-Trimethylbenzene	6.4	UJ	6.4	0.41	
541-73-1	1,3-Dichlorobenzene	6.4	UJ	6.4	0.33	
106-46-7	1,4-Dichlorobenzene	6.4	UJ	6.4	0.90	
123-91-1	1,4-Dioxane	260	UJ	260	31	
78-93-3	2-Butanone (MEK)	32	UJ	32	2.3	
591-78-6	2-Hexanone	32	UJ	32	3.2	
108-10-1	4-Methyl-2-pentanone (MIBK)	32	UJ	32	2.1	
67-64-1	Acetone	32	UJ	32	5.4	
71-43-2	Benzene	6.4	UJ	6.4	0.31	
75-27-4	Bromodichloromethane	6.4	UJ	6.4	0.86	
75-25-2	Bromoform	6.4	UJ	6.4	3.2	ccv, ms all elec ms
74-83-9	Bromomethane	6.4	UJ	6.4	0.58	
75-15-0	Carbon disulfide	6.4	UJ	6.4	3.2	
56-23-5	Carbon tetrachloride	6.4	UJ	6.4	0.62	
108-90-7	Chlorobenzene	6.4	UJ	6.4	0.84	
75-00-3	Chloroethane	6.4	UJ	6.4	1.4	
67-66-3	Chloroform	6.4	UJ	6.4	0.40	
74-87-3	Chloromethane	6.4	UJ	6.4	0.39	
156-59-2	cis-1,2-Dichloroethene	6.4	UJ	6.4	0.82	
10061-01-5	cis-1,3-Dichloropropene	6.4	UJ	6.4	0.92	
110-82-7	Cyclohexane	6.4	UJ	6.4	0.90	
124-48-1	Dibromochloromethane	6.4	UJ	6.4	0.82	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-3 Lab Sample ID: 480-49751-39

Matrix: Solid Lab File ID: F3529.D

Analysis Method: 8260C Date Collected: 11/07/2013 15:30

Sample wt/vol: 5.6(g) Date Analyzed: 11/12/2013 13:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 30.3 Level: (low/med) Low

Analysis Batch No.: 151404 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
75-71-8	Dichlorodifluoromethane	6.4	UJ	6.4	0.53	ms
100-41-4	Ethylbenzene	6.4	UJ	6.4	0.44	↓
98-82-8	Isopropylbenzene	6.4	UJ	6.4	0.97	
79-20-9	Methyl acetate	6.4	U	6.4	1.2	
1634-04-4	Methyl tert-butyl ether	6.4	U	6.4	0.63	
108-87-2	Methylcyclohexane	6.4	UJ	6.4	0.97	
75-09-2	Methylene Chloride	6.4	U	6.4	2.9	
104-51-8	n-Butylbenzene	6.4	UJ	6.4	0.56	
103-65-1	N-Propylbenzene	6.4	UJ	6.4	0.51	
135-98-8	sec-Butylbenzene	6.4	UJ	6.4	0.56	
100-42-5	Styrene	6.4	UJ	6.4	0.32	
98-06-6	tert-Butylbenzene	6.4	UJ	6.4	0.67	
127-18-4	Tetrachloroethene	6.4	UJ	6.4	0.86	
108-88-3	Toluene	6.4	UJ	6.4	0.48	ccv, ms
156-60-5	trans-1,2-Dichloroethene	6.4	UJ	6.4	0.66	
10061-02-6	trans-1,3-Dichloropropene	6.4	UJ	6.4	2.8	
79-01-6	Trichloroethene	6.4	UJ	6.4	1.4	
75-69-4	Trichlorofluoromethane	6.4	UJ	6.4	0.61	
75-01-4	Vinyl chloride	6.4	UJ	6.4	0.78	
1330-20-7	Xylenes, Total	13	UJ	13	1.1	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		64-126
460-00-4	4-Bromofluorobenzene (Surr)	99		72-126
2037-26-5	Toluene-d8 (Surr)	102		71-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-53 Lab Sample ID: 480-49751-40

Matrix: Solid Lab File ID: F3532.D

Analysis Method: 8260C Date Collected: 11/07/2013 15:15

Sample wt/vol: 5.72(g) Date Analyzed: 11/12/2013 14:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 35.6 Level: (low/med) Low

Analysis Batch No.: 151404 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	6.8	UJ	6.8	0.49	MS ↓
79-34-5	1,1,2,2-Tetrachloroethane	6.8	UJ	6.8	1.1	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.8	UJ	6.8	1.5	
79-00-5	1,1,2-Trichloroethane	6.8	UJ	6.8	0.88	
75-34-3	1,1-Dichloroethane	6.8	UJ	6.8	0.83	
75-35-4	1,1-Dichloroethene	6.8	UJ	6.8	0.83	
120-82-1	1,2,4-Trichlorobenzene	6.8	UJ	6.8	0.41	
95-63-6	1,2,4-Trimethylbenzene	6.8	UJ	6.8	1.3	
96-12-8	1,2-Dibromo-3-Chloropropane	6.8	UJ	6.8	3.4	
106-93-4	1,2-Dibromoethane	6.8	UJ	6.8	0.87	
95-50-1	1,2-Dichlorobenzene	6.8	UJ	6.8	0.53	
107-06-2	1,2-Dichloroethane	6.8	UJ	6.8	0.34	
78-87-5	1,2-Dichloropropane	6.8	UJ	6.8	3.4	
108-67-8	1,3,5-Trimethylbenzene	6.8	UJ	6.8	0.44	
541-73-1	1,3-Dichlorobenzene	6.8	UJ	6.8	0.35	
106-46-7	1,4-Dichlorobenzene	6.8	UJ	6.8	0.95	
123-91-1	1,4-Dioxane	270	UJ	270	33	
78-93-3	2-Butanone (MEK)	34	UJ	34	2.5	
591-78-6	2-Hexanone	34	UJ	34	3.4	
108-10-1	4-Methyl-2-pentanone (MIBK)	34	UJ	34	2.2	
67-64-1	Acetone	34	UJ	34	5.7	
71-43-2	Benzene	6.8	UJ	6.8	0.33	
75-27-4	Bromodichloromethane	6.8	UJ	6.8	0.91	
75-25-2	Bromoform	6.8	UJ	6.8	3.4	CCV, MS
74-83-9	Bromomethane	6.8	UJ	6.8	0.61	All else MS
75-15-0	Carbon disulfide	6.8	UJ	6.8	3.4	
56-23-5	Carbon tetrachloride	6.8	UJ	6.8	0.66	
108-90-7	Chlorobenzene	6.8	UJ	6.8	0.90	
75-00-3	Chloroethane	6.8	UJ	6.8	1.5	
67-66-3	Chloroform	6.8	UJ	6.8	0.42	
74-87-3	Chloromethane	6.8	UJ	6.8	0.41	
156-59-2	cis-1,2-Dichloroethene	6.8	UJ	6.8	0.87	
10061-01-5	cis-1,3-Dichloropropene	6.8	UJ	6.8	0.98	
110-82-7	Cyclohexane	6.8	UJ	6.8	0.95	
124-48-1	Dibromochloromethane	6.8	UJ	6.8	0.87	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-53 Lab Sample ID: 480-49751-40

Matrix: Solid Lab File ID: F3532.D

Analysis Method: 8260C Date Collected: 11/07/2013 15:15

Sample wt/vol: 5.72(g) Date Analyzed: 11/12/2013 14:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 35.6 Level: (low/med) Low

Analysis Batch No.: 151404 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
75-71-8	Dichlorodifluoromethane	6.8	UJ	6.8	0.56	ms
100-41-4	Ethylbenzene	6.8	UJ	6.8	0.47	
98-82-8	Isopropylbenzene	6.8	UJ	6.8	1.0	
79-20-9	Methyl acetate	6.8	U	6.8	1.3	
1634-04-4	Methyl tert-butyl ether	6.8	U	6.8	0.67	
108-87-2	Methylcyclohexane	6.8	UJ	6.8	1.0	
75-09-2	Methylene Chloride	6.8	U	6.8	3.1	
104-51-8	n-Butylbenzene	6.8	UJ	6.8	0.59	
103-65-1	N-Propylbenzene	6.8	UJ	6.8	0.54	
135-98-8	sec-Butylbenzene	6.8	UJ	6.8	0.59	
100-42-5	Styrene	6.8	UJ	6.8	0.34	
98-06-6	tert-Butylbenzene	6.8	UJ	6.8	0.71	
127-18-4	Tetrachloroethene	6.8	UJ	6.8	0.91	
108-88-3	Toluene	6.8	UJ	6.8	0.51	ccv, ms
156-60-5	trans-1,2-Dichloroethene	6.8	UJ	6.8	0.70	
10061-02-6	trans-1,3-Dichloropropene	6.8	UJ	6.8	3.0	
79-01-6	Trichloroethene	6.8	UJ	6.8	1.5	
75-69-4	Trichlorofluoromethane	6.8	UJ	6.8	0.64	
75-01-4	Vinyl chloride	6.8	UJ	6.8	0.83	
1330-20-7	Xylenes, Total	14	UJ	14	1.1	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		64-126
460-00-4	4-Bromofluorobenzene (Surr)	97		72-126
2037-26-5	Toluene-d8 (Surr)	98		71-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-4 Lab Sample ID: 480-49751-41

Matrix: Solid Lab File ID: F3533.D

Analysis Method: 8260C Date Collected: 11/07/2013 16:20

Sample wt/vol: 5.35(g) Date Analyzed: 11/12/2013 15:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 39.5 Level: (low/med) Low

Analysis Batch No.: 151404 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	7.7	U	7.7	0.56	
79-34-5	1,1,2,2-Tetrachloroethane	7.7	U	7.7	1.3	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.7	U	7.7	1.8	
79-00-5	1,1,2-Trichloroethane	7.7	U	7.7	1.0	
75-34-3	1,1-Dichloroethane	7.7	U	7.7	0.94	
75-35-4	1,1-Dichloroethene	7.7	U	7.7	0.95	
120-82-1	1,2,4-Trichlorobenzene	7.7	U	7.7	0.47	
95-63-6	1,2,4-Trimethylbenzene	7.7	U	7.7	1.5	
96-12-8	1,2-Dibromo-3-Chloropropane	7.7	U	7.7	3.9	
106-93-4	1,2-Dibromoethane	7.7	U	7.7	0.99	
95-50-1	1,2-Dichlorobenzene	7.7	U	7.7	0.60	
107-06-2	1,2-Dichloroethane	7.7	U	7.7	0.39	
78-87-5	1,2-Dichloropropane	7.7	U	7.7	3.9	
108-67-8	1,3,5-Trimethylbenzene	7.7	U	7.7	0.50	
541-73-1	1,3-Dichlorobenzene	7.7	U	7.7	0.40	
106-46-7	1,4-Dichlorobenzene	7.7	U	7.7	1.1	
123-91-1	1,4-Dioxane	310	U	310	37	
78-93-3	2-Butanone (MEK)	39	U	39	2.8	
591-78-6	2-Hexanone	39	U	39	3.9	
108-10-1	4-Methyl-2-pentanone (MIBK)	39	U	39	2.5	
67-64-1	Acetone	39	U	39	6.5	
71-43-2	Benzene	7.7	U	7.7	0.38	
75-27-4	Bromodichloromethane	7.7	U	7.7	1.0	
75-25-2	Bromoform	7.7	UJ	7.7	3.9	ccv
74-83-9	Bromomethane	7.7	U	7.7	0.70	
75-15-0	Carbon disulfide	7.7	U	7.7	3.9	
56-23-5	Carbon tetrachloride	7.7	U	7.7	0.75	
108-90-7	Chlorobenzene	7.7	U	7.7	1.0	
75-00-3	Chloroethane	7.7	U	7.7	1.7	
67-66-3	Chloroform	7.7	U	7.7	0.48	
74-87-3	Chloromethane	7.7	U	7.7	0.47	
156-59-2	cis-1,2-Dichloroethene	7.7	U	7.7	0.99	
10061-01-5	cis-1,3-Dichloropropene	7.7	U	7.7	1.1	
110-82-7	Cyclohexane	7.7	U	7.7	1.1	
124-48-1	Dibromochloromethane	7.7	U	7.7	0.99	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-4 Lab Sample ID: 480-49751-41

Matrix: Solid Lab File ID: F3533.D

Analysis Method: 8260C Date Collected: 11/07/2013 16:20

Sample wt/vol: 5.35(g) Date Analyzed: 11/12/2013 15:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 39.5 Level: (low/med) Low

Analysis Batch No.: 151404 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
75-71-8	Dichlorodifluoromethane	7.7	U	7.7	0.64	
100-41-4	Ethylbenzene	7.7	U	7.7	0.53	
98-82-8	Isopropylbenzene	7.7	U	7.7	1.2	
79-20-9	Methyl acetate	7.7	U	7.7	1.4	
1634-04-4	Methyl tert-butyl ether	7.7	U	7.7	0.76	
108-87-2	Methylcyclohexane	7.7	U	7.7	1.2	
75-09-2	Methylene Chloride	7.7	U	7.7	3.6	
104-51-8	n-Butylbenzene	7.7	U	7.7	0.67	
103-65-1	N-Propylbenzene	7.7	U	7.7	0.62	
135-98-8	sec-Butylbenzene	7.7	U	7.7	0.67	
100-42-5	Styrene	7.7	U	7.7	0.39	
98-06-6	tert-Butylbenzene	7.7	U	7.7	0.80	
127-18-4	Tetrachloroethene	7.7	U	7.7	1.0	
108-88-3	Toluene	7.7	UJ	7.7	0.58	ecv
156-60-5	trans-1,2-Dichloroethene	7.7	U	7.7	0.80	
10061-02-6	trans-1,3-Dichloropropene	7.7	U	7.7	3.4	
79-01-6	Trichloroethene	7.7	U	7.7	1.7	
75-69-4	Trichlorofluoromethane	7.7	U	7.7	0.73	
75-01-4	Vinyl chloride	7.7	U	7.7	0.94	
1330-20-7	Xylenes, Total	15	U	15	1.3	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		64-126
460-00-4	4-Bromofluorobenzene (Surr)	103		72-126
2037-26-5	Toluene-d8 (Surr)	104		71-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-6 Lab Sample ID: 480-49751-43

Matrix: Solid Lab File ID: F3535.D

Analysis Method: 8260C Date Collected: 11/08/2013 11:15

Sample wt/vol: 4.75(g) Date Analyzed: 11/12/2013 16:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 42.6 Level: (low/med) Low

Analysis Batch No.: 151404 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	9.2	U	9.2	0.67	
79-34-5	1,1,2,2-Tetrachloroethane	9.2	U	9.2	1.5	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	9.2	U	9.2	2.1	
79-00-5	1,1,2-Trichloroethane	9.2	U	9.2	1.2	
75-34-3	1,1-Dichloroethane	9.2	U	9.2	1.1	
75-35-4	1,1-Dichloroethene	9.2	U	9.2	1.1	
120-82-1	1,2,4-Trichlorobenzene	9.2	U	9.2	0.56	
95-63-6	1,2,4-Trimethylbenzene	9.2	U	9.2	1.8	
96-12-8	1,2-Dibromo-3-Chloropropane	9.2	U	9.2	4.6	
106-93-4	1,2-Dibromoethane	9.2	U	9.2	1.2	
95-50-1	1,2-Dichlorobenzene	9.2	U	9.2	0.72	
107-06-2	1,2-Dichloroethane	9.2	U	9.2	0.46	
78-87-5	1,2-Dichloropropane	9.2	U	9.2	4.6	
108-67-8	1,3,5-Trimethylbenzene	9.2	U	9.2	0.59	
541-73-1	1,3-Dichlorobenzene	9.2	U	9.2	0.47	
106-46-7	1,4-Dichlorobenzene	9.2	U	9.2	1.3	
123-91-1	1,4-Dioxane	370	U	370	44	
78-93-3	2-Butanone (MEK)	46	U	46	3.4	
591-78-6	2-Hexanone	46	U	46	4.6	
108-10-1	4-Methyl-2-pentanone (MIBK)	46	U	46	3.0	
67-64-1	Acetone	46	U	46	7.7	
71-43-2	Benzene	9.2	U	9.2	0.45	
75-27-4	Bromodichloromethane	9.2	U	9.2	1.2	
75-25-2	Bromoform	9.2	UJ	9.2	4.6	ccv
74-83-9	Bromomethane	9.2	U	9.2	0.83	
75-15-0	Carbon disulfide	9.2	U	9.2	4.6	
56-23-5	Carbon tetrachloride	9.2	U	9.2	0.89	
108-90-7	Chlorobenzene	9.2	U	9.2	1.2	
75-00-3	Chloroethane	9.2	U	9.2	2.1	
67-66-3	Chloroform	9.2	U	9.2	0.57	
74-87-3	Chloromethane	9.2	U	9.2	0.55	
156-59-2	cis-1,2-Dichloroethene	9.2	U	9.2	1.2	
10061-01-5	cis-1,3-Dichloropropene	9.2	U	9.2	1.3	
110-82-7	Cyclohexane	9.2	U	9.2	1.3	
124-48-1	Dibromochloromethane	9.2	U	9.2	1.2	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-6 Lab Sample ID: 480-49751-43

Matrix: Solid Lab File ID: F3535.D

Analysis Method: 8260C Date Collected: 11/08/2013 11:15

Sample wt/vol: 4.75(g) Date Analyzed: 11/12/2013 16:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 42.6 Level: (low/med) Low

Analysis Batch No.: 151404 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
75-71-8	Dichlorodifluoromethane	9.2	U	9.2	0.76	
100-41-4	Ethylbenzene	9.2	U	9.2	0.63	
98-82-8	Isopropylbenzene	9.2	U	9.2	1.4	
79-20-9	Methyl acetate	9.2	U	9.2	1.7	
1634-04-4	Methyl tert-butyl ether	9.2	U	9.2	0.90	
108-87-2	Methylcyclohexane	9.2	U	9.2	1.4	
75-09-2	Methylene Chloride	9.2	U	9.2	4.2	
104-51-8	n-Butylbenzene	9.2	U	9.2	0.80	
103-65-1	N-Propylbenzene	9.2	U	9.2	0.73	
135-98-8	sec-Butylbenzene	9.2	U	9.2	0.80	
100-42-5	Styrene	9.2	U	9.2	0.46	
98-06-6	tert-Butylbenzene	9.2	U	9.2	0.95	
127-18-4	Tetrachloroethene	9.2	U	9.2	1.2	
108-88-3	Toluene	9.2	UJ	9.2	0.69	ccv
156-60-5	trans-1,2-Dichloroethene	9.2	U	9.2	0.95	
10061-02-6	trans-1,3-Dichloropropene	9.2	U	9.2	4.0	
79-01-6	Trichloroethene	9.2	U	9.2	2.0	
75-69-4	Trichlorofluoromethane	9.2	U	9.2	0.87	
75-01-4	Vinyl chloride	9.2	U	9.2	1.1	
1330-20-7	Xylenes, Total	18	U	18	1.5	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		64-126
460-00-4	4-Bromofluorobenzene (Surr)	99		72-126
2037-26-5	Toluene-d8 (Surr)	102		71-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-7 | Lab Sample ID: 480-49751-42

Matrix: Solid | Lab File ID: F3534.D

Analysis Method: 8260C | Date Collected: 11/07/2013 17:00

Sample wt/vol: 4.27(g) | Date Analyzed: 11/12/2013 15:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 49.9 | Level: (low/med) Low

Analysis Batch No.: 151404 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	12	U	12	0.85	
79-34-5	1,1,2,2-Tetrachloroethane	12	U	12	1.9	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	12	2.7	
79-00-5	1,1,2-Trichloroethane	12	U	12	1.5	
75-34-3	1,1-Dichloroethane	12	U	12	1.4	
75-35-4	1,1-Dichloroethene	12	U	12	1.4	
120-82-1	1,2,4-Trichlorobenzene	12	U	12	0.71	
95-63-6	1,2,4-Trimethylbenzene	12	U	12	2.2	
96-12-8	1,2-Dibromo-3-Chloropropane	12	U	12	5.8	
106-93-4	1,2-Dibromoethane	12	U	12	1.5	
95-50-1	1,2-Dichlorobenzene	12	U	12	0.91	
107-06-2	1,2-Dichloroethane	12	U	12	0.59	
78-87-5	1,2-Dichloropropane	12	U	12	5.8	
108-67-8	1,3,5-Trimethylbenzene	12	U	12	0.75	
541-73-1	1,3-Dichlorobenzene	12	U	12	0.60	
106-46-7	1,4-Dichlorobenzene	12	U	12	1.6	
123-91-1	1,4-Dioxane	470	U	470	56	
78-93-3	2-Butanone (MEK)	58	U	58	4.3	
591-78-6	2-Hexanone	58	U	58	5.8	
108-10-1	4-Methyl-2-pentanone (MIBK)	58	U	58	3.8	
67-64-1	Acetone	58	U	58	9.8	
71-43-2	Benzene	12	U	12	0.57	
75-27-4	Bromodichloromethane	12	U	12	1.6	
75-25-2	Bromoform	12	UJ	12	5.8	ccv
74-83-9	Bromomethane	12	U	12	1.1	
75-15-0	Carbon disulfide	12	U	12	5.8	
56-23-5	Carbon tetrachloride	12	U	12	1.1	
108-90-7	Chlorobenzene	12	U	12	1.5	
75-00-3	Chloroethane	12	U	12	2.6	
67-66-3	Chloroform	12	U	12	0.72	
74-87-3	Chloromethane	12	U	12	0.71	
156-59-2	cis-1,2-Dichloroethene	12	U	12	1.5	
10061-01-5	cis-1,3-Dichloropropene	12	U	12	1.7	
110-82-7	Cyclohexane	12	U	12	1.6	
124-48-1	Dibromochloromethane	12	U	12	1.5	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-7 | Lab Sample ID: 480-49751-42

Matrix: Solid | Lab File ID: F3534.D

Analysis Method: 8260C | Date Collected: 11/07/2013 17:00

Sample wt/vol: 4.27(g) | Date Analyzed: 11/12/2013 15:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 49.9 | Level: (low/med) Low

Analysis Batch No.: 151404 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
75-71-8	Dichlorodifluoromethane	12	U	12	0.97	
100-41-4	Ethylbenzene	12	U	12	0.81	
98-82-8	Isopropylbenzene	12	U	12	1.8	
79-20-9	Methyl acetate	12	U	12	2.2	
1634-04-4	Methyl tert-butyl ether	12	U	12	1.1	
108-87-2	Methylcyclohexane	12	U	12	1.8	
75-09-2	Methylene Chloride	12	U	12	5.4	
104-51-8	n-Butylbenzene	12	U	12	1.0	
103-65-1	N-Propylbenzene	12	U	12	0.93	
135-98-8	sec-Butylbenzene	12	U	12	1.0	
100-42-5	Styrene	12	U	12	0.58	
98-06-6	tert-Butylbenzene	12	U	12	1.2	
127-18-4	Tetrachloroethene	12	U	12	1.6	
108-88-3	Toluene	12	UJ	12	0.88	ccv
156-60-5	trans-1,2-Dichloroethene	12	U	12	1.2	
10061-02-6	trans-1,3-Dichloropropene	12	U	12	5.1	
79-01-6	Trichloroethene	12	U	12	2.6	
75-69-4	Trichlorofluoromethane	12	U	12	1.1	
75-01-4	Vinyl chloride	12	U	12	1.4	
1330-20-7	Xylenes, Total	23	U	23	2.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		64-126
460-00-4	4-Bromofluorobenzene (Surr)	100		72-126
2037-26-5	Toluene-d8 (Surr)	105		71-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-8 | Lab Sample ID: 480-49751-44

Matrix: Solid | Lab File ID: F3536.D

Analysis Method: 8260C | Date Collected: 11/08/2013 00:00

Sample wt/vol: 5.45(g) | Date Analyzed: 11/12/2013 16:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 29.0 | Level: (low/med) Low

Analysis Batch No.: 151404 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	6.5	U	6.5	0.47
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U	6.5	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.5	U	6.5	1.5
79-00-5	1,1,2-Trichloroethane	6.5	U	6.5	0.84
75-34-3	1,1-Dichloroethane	6.5	U	6.5	0.79
75-35-4	1,1-Dichloroethene	6.5	U	6.5	0.79
120-82-1	1,2,4-Trichlorobenzene	6.5	U	6.5	0.39
95-63-6	1,2,4-Trimethylbenzene	6.5	U	6.5	1.2
96-12-8	1,2-Dibromo-3-Chloropropane	6.5	U	6.5	3.2
106-93-4	1,2-Dibromoethane	6.5	U	6.5	0.83
95-50-1	1,2-Dichlorobenzene	6.5	U	6.5	0.51
107-06-2	1,2-Dichloroethane	6.5	U	6.5	0.32
78-87-5	1,2-Dichloropropane	6.5	U	6.5	3.2
108-67-8	1,3,5-Trimethylbenzene	6.5	U	6.5	0.42
541-73-1	1,3-Dichlorobenzene	6.5	U	6.5	0.33
106-46-7	1,4-Dichlorobenzene	6.5	U	6.5	0.90
123-91-1	1,4-Dioxane	260	U	260	31
78-93-3	2-Butanone (MEK)	32	U	32	2.4
591-78-6	2-Hexanone	32	U	32	3.2
108-10-1	4-Methyl-2-pentanone (MIBK)	32	U	32	2.1
67-64-1	Acetone	32	U	32	5.4
71-43-2	Benzene	6.5	U	6.5	0.32
75-27-4	Bromodichloromethane	6.5	U	6.5	0.87
75-25-2	Bromoform	6.5	UJ	6.5	3.2
74-83-9	Bromomethane	6.5	U	6.5	0.58
75-15-0	Carbon disulfide	6.5	U	6.5	3.2
56-23-5	Carbon tetrachloride	6.5	U	6.5	0.63
108-90-7	Chlorobenzene	6.5	U	6.5	0.85
75-00-3	Chloroethane	6.5	U	6.5	1.5
67-66-3	Chloroform	6.5	U	6.5	0.40
74-87-3	Chloromethane	6.5	U	6.5	0.39
156-59-2	cis-1,2-Dichloroethene	6.5	U	6.5	0.83
10061-01-5	cis-1,3-Dichloropropene	6.5	U	6.5	0.93
110-82-7	Cyclohexane	6.5	U	6.5	0.90
124-48-1	Dibromochloromethane	6.5	U	6.5	0.83

ccv

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-8 | Lab Sample ID: 480-49751-44

Matrix: Solid | Lab File ID: F3536.D

Analysis Method: 8260C | Date Collected: 11/08/2013 00:00

Sample wt/vol: 5.45(g) | Date Analyzed: 11/12/2013 16:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 29.0 | Level: (low/med) Low

Analysis Batch No.: 151404 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
75-71-8	Dichlorodifluoromethane	6.5	U	6.5	0.53	
100-41-4	Ethylbenzene	6.5	U	6.5	0.45	
98-82-8	Isopropylbenzene	6.5	U	6.5	0.97	
79-20-9	Methyl acetate	6.5	U	6.5	1.2	
1634-04-4	Methyl tert-butyl ether	6.5	U	6.5	0.63	
108-87-2	Methylcyclohexane	6.5	U	6.5	0.98	
75-09-2	Methylene Chloride	6.5	U	6.5	3.0	
104-51-8	n-Butylbenzene	6.5	U	6.5	0.56	
103-65-1	N-Propylbenzene	6.5	U	6.5	0.52	
135-98-8	sec-Butylbenzene	6.5	U	6.5	0.56	
100-42-5	Styrene	6.5	U	6.5	0.32	
98-06-6	tert-Butylbenzene	6.5	U	6.5	0.67	
127-18-4	Tetrachloroethene	6.5	U	6.5	0.87	
108-88-3	Toluene	6.5	UJ	6.5	0.49	ccv
156-60-5	trans-1,2-Dichloroethene	6.5	U	6.5	0.67	
10061-02-6	trans-1,3-Dichloropropene	6.5	U	6.5	2.8	
79-01-6	Trichloroethene	6.5	U	6.5	1.4	
75-69-4	Trichlorofluoromethane	6.5	U	6.5	0.61	
75-01-4	Vinyl chloride	6.5	U	6.5	0.79	
1330-20-7	Xylenes, Total	13	U	13	1.1	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		64-126
460-00-4	4-Bromofluorobenzene (Surr)	96		72-126
2037-26-5	Toluene-d8 (Surr)	100		71-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-9 | Lab Sample ID: 480-49751-45

Matrix: Solid | Lab File ID: F3550.D

Analysis Method: 8260C | Date Collected: 11/08/2013 00:00

Sample wt/vol: 5.08(g) | Date Analyzed: 11/13/2013 12:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 38.3 | Level: (low/med) Low

Analysis Batch No.: 151714 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	8.0	U	8.0	0.58
79-34-5	1,1,2,2-Tetrachloroethane	8.0	U	8.0	1.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8.0	U	8.0	1.8
79-00-5	1,1,2-Trichloroethane	8.0	U	8.0	1.0
75-34-3	1,1-Dichloroethane	8.0	U	8.0	0.97
75-35-4	1,1-Dichloroethene	8.0	U	8.0	0.98
120-82-1	1,2,4-Trichlorobenzene	8.0	U	8.0	0.48
95-63-6	1,2,4-Trimethylbenzene	8.0	U	8.0	1.5
96-12-8	1,2-Dibromo-3-Chloropropane	8.0	U	8.0	4.0
106-93-4	1,2-Dibromoethane	8.0	U	8.0	1.0
95-50-1	1,2-Dichlorobenzene	8.0	U	8.0	0.62
107-06-2	1,2-Dichloroethane	8.0	U	8.0	0.40
78-87-5	1,2-Dichloropropane	8.0	U	8.0	4.0
108-67-8	1,3,5-Trimethylbenzene	8.0	U	8.0	0.51
541-73-1	1,3-Dichlorobenzene	8.0	U	8.0	0.41
106-46-7	1,4-Dichlorobenzene	8.0	U	8.0	1.1
123-91-1	1,4-Dioxane	320	U	320	38
78-93-3	2-Butanone (MEK)	40	U	40	2.9
591-78-6	2-Hexanone	40	U	40	4.0
108-10-1	4-Methyl-2-pentanone (MIBK)	40	U	40	2.6
67-64-1	Acetone	40	U	40	6.7
71-43-2	Benzene	8.0	U	8.0	0.39
75-27-4	Bromodichloromethane	8.0	U	8.0	1.1
75-25-2	Bromoform	8.0	U	8.0	4.0
74-83-9	Bromomethane	8.0	U	8.0	0.72
75-15-0	Carbon disulfide	8.0	U	8.0	4.0
56-23-5	Carbon tetrachloride	8.0	U	8.0	0.77
108-90-7	Chlorobenzene	8.0	U	8.0	1.1
75-00-3	Chloroethane	8.0	U	8.0	1.8
67-66-3	Chloroform	8.0	U	8.0	0.49
74-87-3	Chloromethane	8.0	U	8.0	0.48
156-59-2	cis-1,2-Dichloroethene	8.0	U	8.0	1.0
10061-01-5	cis-1,3-Dichloropropene	8.0	U	8.0	1.1
110-82-7	Cyclohexane	8.0	U	8.0	1.1
124-48-1	Dibromochloromethane	8.0	U	8.0	1.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-9 | Lab Sample ID: 480-49751-45

Matrix: Solid | Lab File ID: F3550.D

Analysis Method: 8260C | Date Collected: 11/08/2013 00:00

Sample wt/vol: 5.08(g) | Date Analyzed: 11/13/2013 12:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 38.3 | Level: (low/med) Low

Analysis Batch No.: 151714 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	8.0	U	8.0	0.66
100-41-4	Ethylbenzene	8.0	U	8.0	0.55
98-82-8	Isopropylbenzene	8.0	U	8.0	1.2
79-20-9	Methyl acetate	8.0	U	8.0	1.5
1634-04-4	Methyl tert-butyl ether	8.0	U	8.0	0.78
108-87-2	Methylcyclohexane	8.0	U	8.0	1.2
75-09-2	Methylene Chloride	8.0	U	8.0	3.7
104-51-8	n-Butylbenzene	8.0	U	8.0	0.69
103-65-1	N-Propylbenzene	8.0	U	8.0	0.64
135-98-8	sec-Butylbenzene	8.0	U	8.0	0.69
100-42-5	Styrene	8.0	U	8.0	0.40
98-06-6	tert-Butylbenzene	8.0	U	8.0	0.83
127-18-4	Tetrachloroethene	8.0	U	8.0	1.1
108-88-3	Toluene	8.0	U	8.0	0.60
156-60-5	trans-1,2-Dichloroethene	8.0	U	8.0	0.82
10061-02-6	trans-1,3-Dichloropropene	8.0	U	8.0	3.5
79-01-6	Trichloroethene	8.0	U	8.0	1.8
75-69-4	Trichlorofluoromethane	8.0	U	8.0	0.75
75-01-4	Vinyl chloride	8.0	U	8.0	0.97
1330-20-7	Xylenes, Total	16	U	16	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		64-126
460-00-4	4-Bromofluorobenzene (Surr)	99		72-126
2037-26-5	Toluene-d8 (Surr)	102		71-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Client Sample ID: TRIP BLANK Lab Sample ID: 480-49751-47

Matrix: Water Lab File ID: N3108.D

Analysis Method: 8260C Date Collected: 11/08/2013 00:00

Sample wt/vol: 5(mL) Date Analyzed: 11/16/2013 00:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 152462 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.77
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
123-91-1	1,4-Dioxane	40	U	40	9.3
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Client Sample ID: TRIP BLANK Lab Sample ID: 480-49751-47

Matrix: Water Lab File ID: N3108.D

Analysis Method: 8260C Date Collected: 11/08/2013 00:00

Sample wt/vol: 5(mL) Date Analyzed: 11/16/2013 00:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 152462 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	1.0	U	1.0	0.50
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
104-51-8	n-Butylbenzene	1.0	U	1.0	0.64
103-65-1	N-Propylbenzene	1.0	U	1.0	0.69
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.75
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
100-42-5	Styrene	1.0	U	1.0	0.73
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.81

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		66-137
460-00-4	4-Bromofluorobenzene (Surr)	90		73-120
2037-26-5	Toluene-d8 (Surr)	96		71-126

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-3 Lab Sample ID: 480-49751-39

Matrix: Solid Lab File ID: U2081.D

Analysis Method: 8270D Date Collected: 11/07/2013 15:30

Extract. Method: 3550C Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.65(g) Date Analyzed: 11/16/2013 17:00

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 30.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 152545 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
95-95-4	2,4,5-Trichlorophenol	1200	U	1200	260	
88-06-2	2,4,6-Trichlorophenol	1200	U	1200	78	
120-83-2	2,4-Dichlorophenol	1200	U	1200	62	
105-67-9	2,4-Dimethylphenol	1200	U	1200	320	
51-28-5	2,4-Dinitrophenol	2300	U	2300	410	
121-14-2	2,4-Dinitrotoluene	1200	U	1200	180	
606-20-2	2,6-Dinitrotoluene	1200	U	1200	290	
91-58-7	2-Chloronaphthalene	1200	U	1200	79	
95-57-8	2-Chlorophenol	1200	U	1200	60	
91-57-6	2-Methylnaphthalene	1200	U	1200	14	
95-48-7	2-Methylphenol	1200	U	1200	36	
88-74-4	2-Nitroaniline	2300	U	2300	380	
88-75-5	2-Nitrophenol	1200	U	1200	54	
91-94-1	3,3'-Dichlorobenzidine	1200	U	1200	1000	
99-09-2	3-Nitroaniline	2300	UJ	2300	270	MS
534-52-1	4,6-Dinitro-2-methylphenol	2300	U	2300	410	
101-55-3	4-Bromophenyl phenyl ether	1200	U	1200	380	
59-50-7	4-Chloro-3-methylphenol	1200	U	1200	49	
106-47-8	4-Chloroaniline	1200	U	1200	350	
7005-72-3	4-Chlorophenyl phenyl ether	1200	U	1200	25	
106-44-5	4-Methylphenol	2300	U	2300	66	
100-01-6	4-Nitroaniline	2300	UJ	2300	130	MS
100-02-7	4-Nitrophenol	2300	U	2300	290	
83-32-9	Acenaphthene	1200	U	1200	14	
208-96-8	Acenaphthylene	1200	U	1200	9.7	
98-86-2	Acetophenone	1200	UJ	1200	61	LCS
120-12-7	Anthracene	72	J	1200	30	
1912-24-9	Atrazine	1200	U	1200	53	
100-52-7	Benzaldehyde	1200	U	1200	130	
56-55-3	Benzo(a)anthracene	380	J	1200	20	
50-32-8	Benzo(a)pyrene	300	J	1200	29	
205-99-2	Benzo(b)fluoranthene	620	J	1200	23	
191-24-2	Benzo(g,h,i)perylene	86	J	1200	14	<RL, MS
207-08-9	Benzo(k)fluoranthene	190	J	1200	13	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-3 | Lab Sample ID: 480-49751-39

Matrix: Solid | Lab File ID: U2081.D

Analysis Method: 8270D | Date Collected: 11/07/2013 15:30

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.65(g) | Date Analyzed: 11/16/2013 17:00

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 30.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 152545 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
92-52-4	Biphenyl	1200	U	1200	74	
108-60-1	bis (2-chloroisopropyl) ether	1200	U	1200	120	
111-91-1	Bis(2-chloroethoxy)methane	1200	U	1200	64	
111-44-4	Bis(2-chloroethyl)ether	1200	U	1200	100	
117-81-7	Bis(2-ethylhexyl) phthalate	1200	U	1200	380	
85-68-7	Butyl benzyl phthalate	1200	U	1200	320	
105-60-2	Caprolactam	1200	U	1200	510	
86-74-8	Carbazole	1200	U	1200	14	
218-01-9	Chrysene	370	J	1200	12	
53-70-3	Dibenz(a,h)anthracene	1200	UJ	1200	14	MS
132-64-9	Dibenzofuran	1200	U	1200	12	
84-66-2	Diethyl phthalate	1200	U	1200	36	
131-11-3	Dimethyl phthalate	1200	U	1200	31	
84-74-2	Di-n-butyl phthalate	1200	U	1200	410	
117-84-0	Di-n-octyl phthalate	1200	U	1200	28	
206-44-0	Fluoranthene	540	J	1200	17	
86-73-7	Fluorene	1200	U	1200	27	
118-74-1	Hexachlorobenzene	1200	U	1200	59	
87-68-3	Hexachlorobutadiene	1200	U	1200	61	
77-47-4	Hexachlorocyclopentadiene	1200	U	1200	360	
67-72-1	Hexachloroethane	1200	U	1200	92	
193-39-5	Indeno(1,2,3-cd)pyrene	87	J	1200	33	<RL, MS
78-59-1	Isophorone	1200	U	1200	59	
91-20-3	Naphthalene	1200	U	1200	20	
98-95-3	Nitrobenzene	1200	U	1200	53	
621-64-7	N-Nitrosodi-n-propylamine	1200	U	1200	94	
86-30-6	N-Nitrosodiphenylamine	1200	U	1200	65	
87-86-5	Pentachlorophenol	2300	U	2300	410	
85-01-8	Phenanthrene	320	J	1200	25	
108-95-2	Phenol	1200	U	1200	120	
129-00-0	Pyrene	490	J	1200	7.7	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-3 | Lab Sample ID: 480-49751-39

Matrix: Solid | Lab File ID: U2081.D

Analysis Method: 8270D | Date Collected: 11/07/2013 15:30

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.65(g) | Date Analyzed: 11/16/2013 17:00

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 30.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 152545 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	71		39-146
321-60-8	2-Fluorobiphenyl	86		37-120
367-12-4	2-Fluorophenol	78		18-120
4165-60-0	Nitrobenzene-d5	84		34-132
4165-62-2	Phenol-d5	80		11-120
1718-51-0	p-Terphenyl-d14	82		65-153

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-53 | Lab Sample ID: 480-49751-40

Matrix: Solid | Lab File ID: U2123.D

Analysis Method: 8270D | Date Collected: 11/07/2013 15:15

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.35(g) | Date Analyzed: 11/18/2013 17:42

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

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 35.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 152748 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
95-95-4	2,4,5-Trichlorophenol	260	U	260	57	
88-06-2	2,4,6-Trichlorophenol	260	U	260	17	
120-83-2	2,4-Dichlorophenol	260	U	260	14	
105-67-9	2,4-Dimethylphenol	260	U	260	70	
51-28-5	2,4-Dinitrophenol	510	U	510	91	
121-14-2	2,4-Dinitrotoluene	260	U	260	40	
606-20-2	2,6-Dinitrotoluene	260	U	260	63	
91-58-7	2-Chloronaphthalene	260	U	260	17	
95-57-8	2-Chlorophenol	260	U	260	13	
91-57-6	2-Methylnaphthalene	16	J	260	3.1	
95-48-7	2-Methylphenol	260	U	260	8.0	
88-74-4	2-Nitroaniline	510	U	510	83	
88-75-5	2-Nitrophenol	260	U	260	12	
91-94-1	3,3'-Dichlorobenzidine	260	U	260	230	
99-09-2	3-Nitroaniline	510	UJ	510	60	MS
534-52-1	4,6-Dinitro-2-methylphenol	510	U	510	90	
101-55-3	4-Bromophenyl phenyl ether	260	U	260	82	
59-50-7	4-Chloro-3-methylphenol	260	U	260	11	
106-47-8	4-Chloroaniline	260	U	260	76	
7005-72-3	4-Chlorophenyl phenyl ether	260	U	260	5.5	
106-44-5	4-Methylphenol	510	U	510	14	
100-01-6	4-Nitroaniline	510	UJ	510	29	MS
100-02-7	4-Nitrophenol	510	U	510	63	
83-32-9	Acenaphthene	260	U	260	3.0	
208-96-8	Acenaphthylene	40	J	260	2.1	
98-86-2	Acetophenone	260	UJ	260	13	LCS
120-12-7	Anthracene	23	J	260	6.6	
1912-24-9	Atrazine	260	U	260	12	
100-52-7	Benzaldehyde	260	U	260	28	
56-55-3	Benzo(a)anthracene	170	J	260	4.5	
50-32-8	Benzo(a)pyrene	160	J	260	6.2	
205-99-2	Benzo(b)fluoranthene	330		260	5.0	
191-24-2	Benzo(g,h,i)perylene	62	J	260	3.1	<RL, MS
207-08-9	Benzo(k)fluoranthene	130	J	260	2.9	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-53 | Lab Sample ID: 480-49751-40

Matrix: Solid | Lab File ID: U2123.D

Analysis Method: 8270D | Date Collected: 11/07/2013 15:15

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.35(g) | Date Analyzed: 11/18/2013 17:42

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

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 35.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 152748 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
92-52-4	Biphenyl	260	U	260	16	
108-60-1	bis (2-chloroisopropyl) ether	260	U	260	27	
111-91-1	Bis(2-chloroethoxy)methane	260	U	260	14	
111-44-4	Bis(2-chloroethyl)ether	260	U	260	22	
117-81-7	Bis(2-ethylhexyl) phthalate	260	U	260	84	
85-68-7	Butyl benzyl phthalate	260	U	260	70	
105-60-2	Caprolactam	260	U	260	110	
86-74-8	Carbazole	15	J	260	3.0	
218-01-9	Chrysene	200	J	260	2.6	
53-70-3	Dibenz(a,h)anthracene	20	J	260	3.0	<RL, MS
132-64-9	Dibenzofuran	260	U	260	2.7	
84-66-2	Diethyl phthalate	260	U	260	7.8	
131-11-3	Dimethyl phthalate	260	U	260	6.8	
84-74-2	Di-n-butyl phthalate	260	U	260	90	
117-84-0	Di-n-octyl phthalate	260	U	260	6.1	
206-44-0	Fluoranthene	250	J	260	3.8	
86-73-7	Fluorene	260	U	260	6.0	
118-74-1	Hexachlorobenzene	260	U	260	13	
87-68-3	Hexachlorobutadiene	260	U	260	13	
77-47-4	Hexachlorocyclopentadiene	260	U	260	78	
67-72-1	Hexachloroethane	260	U	260	20	
193-39-5	Indeno(1,2,3-cd)pyrene	58	J	260	7.2	<RL, MS
78-59-1	Isophorone	260	U	260	13	
91-20-3	Naphthalene	260	U	260	4.3	
98-95-3	Nitrobenzene	260	U	260	11	
621-64-7	N-Nitrosodi-n-propylamine	260	U	260	21	
86-30-6	N-Nitrosodiphenylamine	260	U	260	14	
87-86-5	Pentachlorophenol	510	U	510	89	
85-01-8	Phenanthrene	92	J	260	5.4	
108-95-2	Phenol	260	U	260	27	
129-00-0	Pyrene	210	J	260	1.7	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-53 Lab Sample ID: 480-49751-40

Matrix: Solid Lab File ID: U2123.D

Analysis Method: 8270D Date Collected: 11/07/2013 15:15

Extract. Method: 3550C Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.35(g) Date Analyzed: 11/18/2013 17:42

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

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 35.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 152748 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	100		39-146
321-60-8	2-Fluorobiphenyl	90		37-120
367-12-4	2-Fluorophenol	84		18-120
4165-60-0	Nitrobenzene-d5	94		34-132
4165-62-2	Phenol-d5	88		11-120
1718-51-0	p-Terphenyl-d14	81		65-153

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-4 | Lab Sample ID: 480-49751-41

Matrix: Solid | Lab File ID: U2124.D

Analysis Method: 8270D | Date Collected: 11/07/2013 16:20

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.18(g) | Date Analyzed: 11/18/2013 18:06

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

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 39.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 152748 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
95-95-4	2,4,5-Trichlorophenol	280	U	280	61	
88-06-2	2,4,6-Trichlorophenol	280	U	280	18	
120-83-2	2,4-Dichlorophenol	280	U	280	15	
105-67-9	2,4-Dimethylphenol	280	U	280	75	
51-28-5	2,4-Dinitrophenol	540	U	540	97	
121-14-2	2,4-Dinitrotoluene	280	U	280	43	
606-20-2	2,6-Dinitrotoluene	280	U	280	68	
91-58-7	2-Chloronaphthalene	280	U	280	19	
95-57-8	2-Chlorophenol	280	U	280	14	
91-57-6	2-Methylnaphthalene	32	J	280	3.4	
95-48-7	2-Methylphenol	280	U	280	8.5	
88-74-4	2-Nitroaniline	540	U	540	89	
88-75-5	2-Nitrophenol	280	U	280	13	
91-94-1	3,3'-Dichlorobenzidine	280	U	280	240	
99-09-2	3-Nitroaniline	540	U	540	64	
534-52-1	4,6-Dinitro-2-methylphenol	540	U	540	96	
101-55-3	4-Bromophenyl phenyl ether	280	U	280	88	
59-50-7	4-Chloro-3-methylphenol	280	U	280	11	
106-47-8	4-Chloroaniline	280	U	280	81	
7005-72-3	4-Chlorophenyl phenyl ether	280	U	280	5.9	
106-44-5	4-Methylphenol	540	U	540	15	
100-01-6	4-Nitroaniline	540	U	540	31	
100-02-7	4-Nitrophenol	540	U	540	67	
83-32-9	Acenaphthene	7.5	J	280	3.3	
208-96-8	Acenaphthylene	90	J	280	2.3	
98-86-2	Acetophenone	280	UJ	280	14	LCS
120-12-7	Anthracene	48	J	280	7.1	
1912-24-9	Atrazine	280	U	280	12	
100-52-7	Benzaldehyde	280	U	280	30	
56-55-3	Benzo(a)anthracene	330		280	4.8	
50-32-8	Benzo(a)pyrene	310		280	6.7	
205-99-2	Benzo(b)fluoranthene	540		280	5.4	
191-24-2	Benzo(g,h,i)perylene	120	J	280	3.3	
207-08-9	Benzo(k)fluoranthene	210	J	280	3.1	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-4 | Lab Sample ID: 480-49751-41

Matrix: Solid | Lab File ID: U2124.D

Analysis Method: 8270D | Date Collected: 11/07/2013 16:20

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.18(g) | Date Analyzed: 11/18/2013 18:06

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

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 39.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 152748 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	280	U	280	17
108-60-1	bis (2-chloroisopropyl) ether	280	U	280	29
111-91-1	Bis(2-chloroethoxy)methane	280	U	280	15
111-44-4	Bis(2-chloroethyl)ether	280	U	280	24
117-81-7	Bis(2-ethylhexyl) phthalate	280	U	280	89
85-68-7	Butyl benzyl phthalate	280	U	280	75
105-60-2	Caprolactam	280	U	280	120
86-74-8	Carbazole	25	J	280	3.2
218-01-9	Chrysene	350		280	2.8
53-70-3	Dibenz(a,h)anthracene	40	J	280	3.3
132-64-9	Dibenzofuran	280	U	280	2.9
84-66-2	Diethyl phthalate	280	U	280	8.4
131-11-3	Dimethyl phthalate	280	U	280	7.2
84-74-2	Di-n-butyl phthalate	280	U	280	96
117-84-0	Di-n-octyl phthalate	280	U	280	6.5
206-44-0	Fluoranthene	440		280	4.0
86-73-7	Fluorene	280	U	280	6.4
118-74-1	Hexachlorobenzene	280	U	280	14
87-68-3	Hexachlorobutadiene	280	U	280	14
77-47-4	Hexachlorocyclopentadiene	280	U	280	84
67-72-1	Hexachloroethane	280	U	280	21
193-39-5	Indeno(1,2,3-cd)pyrene	110	J	280	7.7
78-59-1	Isophorone	280	U	280	14
91-20-3	Naphthalene	29	J	280	4.6
98-95-3	Nitrobenzene	280	U	280	12
621-64-7	N-Nitrosodi-n-propylamine	280	U	280	22
86-30-6	N-Nitrosodiphenylamine	280	U	280	15
87-86-5	Pentachlorophenol	540	U	540	95
85-01-8	Phenanthrene	190	J	280	5.8
108-95-2	Phenol	280	U	280	29
129-00-0	Pyrene	450		280	1.8

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-4 | Lab Sample ID: 480-49751-41

Matrix: Solid | Lab File ID: U2124.D

Analysis Method: 8270D | Date Collected: 11/07/2013 16:20

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.18(g) | Date Analyzed: 11/18/2013 18:06

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

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 39.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 152748 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	105		39-146
321-60-8	2-Fluorobiphenyl	93		37-120
367-12-4	2-Fluorophenol	82		18-120
4165-60-0	Nitrobenzene-d5	92		34-132
4165-62-2	Phenol-d5	86		11-120
1718-51-0	p-Terphenyl-d14	84		65-153

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-6 | Lab Sample ID: 480-49751-43

Matrix: Solid | Lab File ID: U2168.D

Analysis Method: 8270D | Date Collected: 11/08/2013 11:15

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.13(g) | Date Analyzed: 11/19/2013 12:28

Con. Extract Vol.: 1(mL) | Dilution Factor: 2

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 42.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 152796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
95-95-4	2,4,5-Trichlorophenol	590	U	590	130	
88-06-2	2,4,6-Trichlorophenol	590	U	590	39	
120-83-2	2,4-Dichlorophenol	590	U	590	31	
105-67-9	2,4-Dimethylphenol	590	U	590	160	
51-28-5	2,4-Dinitrophenol	1100	U	1100	210	
121-14-2	2,4-Dinitrotoluene	590	U	590	91	
606-20-2	2,6-Dinitrotoluene	590	U	590	140	
91-58-7	2-Chloronaphthalene	590	U	590	39	
95-57-8	2-Chlorophenol	590	U	590	30	
91-57-6	2-Methylnaphthalene	78	J	590	7.1	
95-48-7	2-Methylphenol	590	U	590	18	
88-74-4	2-Nitroaniline	1100	U	1100	190	
88-75-5	2-Nitrophenol	590	U	590	27	
91-94-1	3,3'-Dichlorobenzidine	590	U	590	510	
99-09-2	3-Nitroaniline	1100	U	1100	130	
534-52-1	4,6-Dinitro-2-methylphenol	1100	U	1100	200	
101-55-3	4-Bromophenyl phenyl ether	590	U	590	190	
59-50-7	4-Chloro-3-methylphenol	590	U	590	24	
106-47-8	4-Chloroaniline	590	U	590	170	
7005-72-3	4-Chlorophenyl phenyl ether	590	U	590	12	
106-44-5	4-Methylphenol	1100	U	1100	33	
100-01-6	4-Nitroaniline	1100	U	1100	65	
100-02-7	4-Nitrophenol	1100	U	1100	140	
83-32-9	Acenaphthene	590	U	590	6.9	
208-96-8	Acenaphthylene	240	J	590	4.8	
98-86-2	Acetophenone	590	U J	590	30	LCS
120-12-7	Anthracene	160	J	590	15	
1912-24-9	Atrazine	590	U	590	26	
100-52-7	Benzaldehyde	590	U	590	64	
56-55-3	Benzo(a)anthracene	1100		590	10	
50-32-8	Benzo(a)pyrene	1200		590	14	
205-99-2	Benzo(b)fluoranthene	2800		590	11	
191-24-2	Benzo(g,h,i)perylene	440	J	590	7.0	
207-08-9	Benzo(k)fluoranthene	840		590	6.5	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-6 | Lab Sample ID: 480-49751-43

Matrix: Solid | Lab File ID: U2168.D

Analysis Method: 8270D | Date Collected: 11/08/2013 11:15

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.13(g) | Date Analyzed: 11/19/2013 12:28

Con. Extract Vol.: 1(mL) | Dilution Factor: 2

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 42.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 152796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	590	U	590	37
108-60-1	bis (2-chloroisopropyl) ether	590	UJ	590	61
111-91-1	Bis(2-chloroethoxy)methane	590	U	590	32
111-44-4	Bis(2-chloroethyl)ether	590	U	590	51
117-81-7	Bis(2-ethylhexyl) phthalate	590	U	590	190
85-68-7	Butyl benzyl phthalate	590	U	590	160
105-60-2	Caprolactam	590	U	590	250
86-74-8	Carbazole	88	J	590	6.8
218-01-9	Chrysene	1300		590	5.9
53-70-3	Dibenz(a,h)anthracene	590	U	590	6.9
132-64-9	Dibenzofuran	590	U	590	6.1
84-66-2	Diethyl phthalate	590	U	590	18
131-11-3	Dimethyl phthalate	590	U	590	15
84-74-2	Di-n-butyl phthalate	590	U	590	200
117-84-0	Di-n-octyl phthalate	590	U	590	14
206-44-0	Fluoranthene	1400		590	8.5
86-73-7	Fluorene	590	U	590	14
118-74-1	Hexachlorobenzene	590	U	590	29
87-68-3	Hexachlorobutadiene	590	U	590	30
77-47-4	Hexachlorocyclopentadiene	590	U	590	180
67-72-1	Hexachloroethane	590	U	590	45
193-39-5	Indeno(1,2,3-cd)pyrene	410	J	590	16
78-59-1	Isophorone	590	U	590	29
91-20-3	Naphthalene	590	U	590	9.8
98-95-3	Nitrobenzene	590	U	590	26
621-64-7	N-Nitrosodi-n-propylamine	590	U	590	46
86-30-6	N-Nitrosodiphenylamine	590	U	590	32
87-86-5	Pentachlorophenol	1100	U	1100	200
85-01-8	Phenanthrene	550	J	590	12
108-95-2	Phenol	590	U	590	62
129-00-0	Pyrene	1200		590	3.8

CCV

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-6 | Lab Sample ID: 480-49751-43

Matrix: Solid | Lab File ID: U2168.D

Analysis Method: 8270D | Date Collected: 11/08/2013 11:15

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.13(g) | Date Analyzed: 11/19/2013 12:28

Con. Extract Vol.: 1(mL) | Dilution Factor: 2

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 42.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 152796 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	106		39-146
321-60-8	2-Fluorobiphenyl	98		37-120
367-12-4	2-Fluorophenol	84		18-120
4165-60-0	Nitrobenzene-d5	101		34-132
4165-62-2	Phenol-d5	87		11-120
1718-51-0	p-Terphenyl-d14	91		65-153

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-7 | Lab Sample ID: 480-49751-42

Matrix: Solid | Lab File ID: U2167.D

Analysis Method: 8270D | Date Collected: 11/07/2013 17:00

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.89(g) | Date Analyzed: 11/19/2013 12:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 49.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 152796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
95-95-4	2,4,5-Trichlorophenol	3300	U	3300	710	
88-06-2	2,4,6-Trichlorophenol	3300	U	3300	220	
120-83-2	2,4-Dichlorophenol	3300	U	3300	170	
105-67-9	2,4-Dimethylphenol	3300	U	3300	880	
51-28-5	2,4-Dinitrophenol	6400	U	6400	1100	
121-14-2	2,4-Dinitrotoluene	3300	U	3300	510	
606-20-2	2,6-Dinitrotoluene	3300	U	3300	800	
91-58-7	2-Chloronaphthalene	3300	U	3300	220	
95-57-8	2-Chlorophenol	3300	U	3300	170	
91-57-6	2-Methylnaphthalene	3300	U	3300	40	
95-48-7	2-Methylphenol	3300	U	3300	100	
88-74-4	2-Nitroaniline	6400	U	6400	1000	
88-75-5	2-Nitrophenol	3300	U	3300	150	
91-94-1	3,3'-Dichlorobenzidine	3300	U	3300	2900	
99-09-2	3-Nitroaniline	6400	U	6400	750	
534-52-1	4,6-Dinitro-2-methylphenol	6400	U	6400	1100	
101-55-3	4-Bromophenyl phenyl ether	3300	U	3300	1000	
59-50-7	4-Chloro-3-methylphenol	3300	U	3300	130	
106-47-8	4-Chloroaniline	3300	U	3300	960	
7005-72-3	4-Chlorophenyl phenyl ether	3300	U	3300	70	
106-44-5	4-Methylphenol	6400	U	6400	180	
100-01-6	4-Nitroaniline	6400	U	6400	370	
100-02-7	4-Nitrophenol	6400	U	6400	790	
83-32-9	Acenaphthene	3300	U	3300	38	
208-96-8	Acenaphthylene	3300	U	3300	27	
98-86-2	Acetophenone	3300	UJ	3300	170	LCS
120-12-7	Anthracene	3300	U	3300	84	
1912-24-9	Atrazine	3300	U	3300	150	
100-52-7	Benzaldehyde	3300	U	3300	360	
56-55-3	Benzo(a)anthracene	920	J	3300	56	
50-32-8	Benzo(a)pyrene	910	J	3300	79	
205-99-2	Benzo(b)fluoranthene	1800	J	3300	63	
191-24-2	Benzo(g,h,i)perylene	420	J	3300	39	
207-08-9	Benzo(k)fluoranthene	710	J	3300	36	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-7 | Lab Sample ID: 480-49751-42

Matrix: Solid | Lab File ID: U2167.D

Analysis Method: 8270D | Date Collected: 11/07/2013 17:00

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.89(g) | Date Analyzed: 11/19/2013 12:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 49.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 152796 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	3300	U	3300	200
108-60-1	bis (2-chloroisopropyl) ether	3300	UJ	3300	340
111-91-1	Bis(2-chloroethoxy)methane	3300	U	3300	180
111-44-4	Bis(2-chloroethyl)ether	3300	U	3300	280
117-81-7	Bis(2-ethylhexyl) phthalate	1300	J	3300	1100
85-68-7	Butyl benzyl phthalate	3300	U	3300	880
105-60-2	Caprolactam	3300	U	3300	1400
86-74-8	Carbazole	3300	U	3300	38
218-01-9	Chrysene	980	J	3300	33
53-70-3	Dibenz(a,h)anthracene	3300	U	3300	38
132-64-9	Dibenzofuran	3300	U	3300	34
84-66-2	Diethyl phthalate	3300	U	3300	99
131-11-3	Dimethyl phthalate	3300	U	3300	85
84-74-2	Di-n-butyl phthalate	3300	U	3300	1100
117-84-0	Di-n-octyl phthalate	3300	U	3300	77
206-44-0	Fluoranthene	920	J	3300	47
86-73-7	Fluorene	3300	U	3300	75
118-74-1	Hexachlorobenzene	3300	U	3300	160
87-68-3	Hexachlorobutadiene	3300	U	3300	170
77-47-4	Hexachlorocyclopentadiene	3300	U	3300	990
67-72-1	Hexachloroethane	3300	U	3300	250
193-39-5	Indeno(1,2,3-cd)pyrene	290	J	3300	91
78-59-1	Isophorone	3300	U	3300	160
91-20-3	Naphthalene	3300	U	3300	54
98-95-3	Nitrobenzene	3300	U	3300	150
621-64-7	N-Nitrosodi-n-propylamine	3300	U	3300	260
86-30-6	N-Nitrosodiphenylamine	3300	U	3300	180
87-86-5	Pentachlorophenol	6400	U	6400	1100
85-01-8	Phenanthrene	270	J	3300	69
108-95-2	Phenol	3300	U	3300	340
129-00-0	Pyrene	860	J	3300	21

CCV

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-7 | Lab Sample ID: 480-49751-42

Matrix: Solid | Lab File ID: U2167.D

Analysis Method: 8270D | Date Collected: 11/07/2013 17:00

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.89(g) | Date Analyzed: 11/19/2013 12:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 49.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 152796 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	86		39-146
321-60-8	2-Fluorobiphenyl	104		37-120
367-12-4	2-Fluorophenol	94		18-120
4165-60-0	Nitrobenzene-d5	119		34-132
4165-62-2	Phenol-d5	94		11-120
1718-51-0	p-Terphenyl-d14	94		65-153

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-8 | Lab Sample ID: 480-49751-44

Matrix: Solid | Lab File ID: U2127.D

Analysis Method: 8270D | Date Collected: 11/08/2013 00:00

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.11(g) | Date Analyzed: 11/18/2013 19:17

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 29.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 152748 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
95-95-4	2,4,5-Trichlorophenol	1200	U	1200	260	
88-06-2	2,4,6-Trichlorophenol	1200	U	1200	78	
120-83-2	2,4-Dichlorophenol	1200	U	1200	62	
105-67-9	2,4-Dimethylphenol	1200	U	1200	320	
51-28-5	2,4-Dinitrophenol	2300	U	2300	410	
121-14-2	2,4-Dinitrotoluene	1200	U	1200	180	
606-20-2	2,6-Dinitrotoluene	1200	U	1200	290	
91-58-7	2-Chloronaphthalene	1200	U	1200	79	
95-57-8	2-Chlorophenol	1200	U	1200	60	
91-57-6	2-Methylnaphthalene	190	J	1200	14	
95-48-7	2-Methylphenol	1200	U	1200	36	
88-74-4	2-Nitroaniline	2300	U	2300	380	
88-75-5	2-Nitrophenol	1200	U	1200	54	
91-94-1	3,3'-Dichlorobenzidine	1200	U	1200	1000	
99-09-2	3-Nitroaniline	2300	U	2300	270	
534-52-1	4,6-Dinitro-2-methylphenol	2300	U	2300	410	
101-55-3	4-Bromophenyl phenyl ether	1200	U	1200	380	
59-50-7	4-Chloro-3-methylphenol	1200	U	1200	49	
106-47-8	4-Chloroaniline	1200	U	1200	350	
7005-72-3	4-Chlorophenyl phenyl ether	1200	U	1200	25	
106-44-5	4-Methylphenol	2300	U	2300	66	
100-01-6	4-Nitroaniline	2300	U	2300	130	
100-02-7	4-Nitrophenol	2300	U	2300	290	
83-32-9	Acenaphthene	14	J	1200	14	
208-96-8	Acenaphthylene	610	J	1200	9.7	
98-86-2	Acetophenone	1200	U J	1200	61	LCS
120-12-7	Anthracene	350	J	1200	30	
1912-24-9	Atrazine	1200	U	1200	53	
100-52-7	Benzaldehyde	1200	U	1200	130	
56-55-3	Benzo(a)anthracene	3300		1200	20	
50-32-8	Benzo(a)pyrene	3900		1200	29	
205-99-2	Benzo(b)fluoranthene	7600		1200	23	
191-24-2	Benzo(g,h,i)perylene	1300		1200	14	
207-08-9	Benzo(k)fluoranthene	2500		1200	13	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-8 | Lab Sample ID: 480-49751-44

Matrix: Solid | Lab File ID: U2127.D

Analysis Method: 8270D | Date Collected: 11/08/2013 00:00

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.11(g) | Date Analyzed: 11/18/2013 19:17

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 29.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 152748 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	1200	U	1200	74
108-60-1	bis (2-chloroisopropyl) ether	1200	U	1200	120
111-91-1	Bis(2-chloroethoxy)methane	1200	U	1200	64
111-44-4	Bis(2-chloroethyl)ether	1200	U	1200	100
117-81-7	Bis(2-ethylhexyl) phthalate	1200	U	1200	380
85-68-7	Butyl benzyl phthalate	1200	U	1200	320
105-60-2	Caprolactam	1200	U	1200	510
86-74-8	Carbazole	98	J	1200	14
218-01-9	Chrysene	3600		1200	12
53-70-3	Dibenz(a,h)anthracene	1200	U	1200	14
132-64-9	Dibenzofuran	69	J	1200	12
84-66-2	Diethyl phthalate	1200	U	1200	36
131-11-3	Dimethyl phthalate	1200	U	1200	31
84-74-2	Di-n-butyl phthalate	1200	U	1200	410
117-84-0	Di-n-octyl phthalate	1200	U	1200	28
206-44-0	Fluoranthene	3500		1200	17
86-73-7	Fluorene	1200	U	1200	27
118-74-1	Hexachlorobenzene	1200	U	1200	59
87-68-3	Hexachlorobutadiene	1200	U	1200	61
77-47-4	Hexachlorocyclopentadiene	1200	U	1200	360
67-72-1	Hexachloroethane	1200	U	1200	92
193-39-5	Indeno(1,2,3-cd)pyrene	1200		1200	33
78-59-1	Isophorone	1200	U	1200	59
91-20-3	Naphthalene	210	J	1200	20
98-95-3	Nitrobenzene	1200	U	1200	53
621-64-7	N-Nitrosodi-n-propylamine	1200	U	1200	94
86-30-6	N-Nitrosodiphenylamine	1200	U	1200	65
87-86-5	Pentachlorophenol	2300	U	2300	410
85-01-8	Phenanthrene	1000	J	1200	25
108-95-2	Phenol	1200	U	1200	120
129-00-0	Pyrene	5000		1200	7.7

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-8 | Lab Sample ID: 480-49751-44

Matrix: Solid | Lab File ID: U2127.D

Analysis Method: 8270D | Date Collected: 11/08/2013 00:00

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.11(g) | Date Analyzed: 11/18/2013 19:17

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 29.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 152748 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	96		39-146
321-60-8	2-Fluorobiphenyl	93		37-120
367-12-4	2-Fluorophenol	83		18-120
4165-60-0	Nitrobenzene-d5	88		34-132
4165-62-2	Phenol-d5	86		11-120
1718-51-0	p-Terphenyl-d14	87		65-153

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-9 | Lab Sample ID: 480-49751-45

Matrix: Solid | Lab File ID: U2115.D

Analysis Method: 8270D | Date Collected: 11/08/2013 00:00

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.65(g) | Date Analyzed: 11/18/2013 14:52

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

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 38.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 152748 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
95-95-4	2,4,5-Trichlorophenol	270	U	270	58	
88-06-2	2,4,6-Trichlorophenol	270	U	270	18	
120-83-2	2,4-Dichlorophenol	270	U	270	14	
105-67-9	2,4-Dimethylphenol	270	U	270	72	
51-28-5	2,4-Dinitrophenol	520	U	520	94	
121-14-2	2,4-Dinitrotoluene	270	U	270	41	
606-20-2	2,6-Dinitrotoluene	270	U	270	66	
91-58-7	2-Chloronaphthalene	270	U	270	18	
95-57-8	2-Chlorophenol	270	U	270	14	
91-57-6	2-Methylnaphthalene	22	J	270	3.2	
95-48-7	2-Methylphenol	270	U	270	8.2	
88-74-4	2-Nitroaniline	520	U	520	86	
88-75-5	2-Nitrophenol	270	U	270	12	
91-94-1	3,3'-Dichlorobenzidine	270	U	270	230	
99-09-2	3-Nitroaniline	520	U	520	62	
534-52-1	4,6-Dinitro-2-methylphenol	520	U	520	92	
101-55-3	4-Bromophenyl phenyl ether	270	U	270	85	
59-50-7	4-Chloro-3-methylphenol	270	U	270	11	
106-47-8	4-Chloroaniline	270	U	270	79	
7005-72-3	4-Chlorophenyl phenyl ether	270	U	270	5.7	
106-44-5	4-Methylphenol	520	U	520	15	
100-01-6	4-Nitroaniline	520	U	520	30	
100-02-7	4-Nitrophenol	520	U	520	65	
83-32-9	Acenaphthene	15	J	270	3.1	
208-96-8	Acenaphthylene	53	J	270	2.2	
98-86-2	Acetophenone	270	U J	270	14	LCS
120-12-7	Anthracene	64	J	270	6.9	
1912-24-9	Atrazine	270	U	270	12	
100-52-7	Benzaldehyde	270	U	270	29	
56-55-3	Benzo(a)anthracene	400		270	4.6	
50-32-8	Benzo(a)pyrene	420		270	6.5	
205-99-2	Benzo(b)fluoranthene	590		270	5.2	
191-24-2	Benzo(g,h,i)perylene	140	J	270	3.2	
207-08-9	Benzo(k)fluoranthene	230	J	270	2.9	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-9 | Lab Sample ID: 480-49751-45

Matrix: Solid | Lab File ID: U2115.D

Analysis Method: 8270D | Date Collected: 11/08/2013 00:00

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.65(g) | Date Analyzed: 11/18/2013 14:52

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

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 38.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 152748 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	270	U	270	17
108-60-1	bis (2-chloroisopropyl) ether	270	U	270	28
111-91-1	Bis(2-chloroethoxy)methane	270	U	270	15
111-44-4	Bis(2-chloroethyl)ether	270	U	270	23
117-81-7	Bis(2-ethylhexyl) phthalate	270	U	270	86
85-68-7	Butyl benzyl phthalate	270	U	270	72
105-60-2	Caprolactam	270	U	270	120
86-74-8	Carbazole	38	J	270	3.1
218-01-9	Chrysene	430		270	2.7
53-70-3	Dibenz(a,h)anthracene	270	U	270	3.1
132-64-9	Dibenzofuran	270	U	270	2.8
84-66-2	Diethyl phthalate	270	U	270	8.1
131-11-3	Dimethyl phthalate	270	U	270	7.0
84-74-2	Di-n-butyl phthalate	270	U	270	93
117-84-0	Di-n-octyl phthalate	270	U	270	6.3
206-44-0	Fluoranthene	670		270	3.9
86-73-7	Fluorene	22	J	270	6.2
118-74-1	Hexachlorobenzene	270	U	270	13
87-68-3	Hexachlorobutadiene	270	U	270	14
77-47-4	Hexachlorocyclopentadiene	270	U	270	81
67-72-1	Hexachloroethane	270	U	270	21
193-39-5	Indeno(1,2,3-cd)pyrene	130	J	270	7.4
78-59-1	Isophorone	270	U	270	13
91-20-3	Naphthalene	29	J	270	4.5
98-95-3	Nitrobenzene	270	U	270	12
621-64-7	N-Nitrosodi-n-propylamine	270	U	270	21
86-30-6	N-Nitrosodiphenylamine	270	U	270	15
87-86-5	Pentachlorophenol	520	U	520	92
85-01-8	Phenanthrene	300		270	5.6
108-95-2	Phenol	270	U	270	28
129-00-0	Pyrene	600		270	1.7

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: CS-9 | Lab Sample ID: 480-49751-45

Matrix: Solid | Lab File ID: U2115.D

Analysis Method: 8270D | Date Collected: 11/08/2013 00:00

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.65(g) | Date Analyzed: 11/18/2013 14:52

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

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 38.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 152748 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	100		39-146
321-60-8	2-Fluorobiphenyl	87		37-120
367-12-4	2-Fluorophenol	78		18-120
4165-60-0	Nitrobenzene-d5	89		34-132
4165-62-2	Phenol-d5	83		11-120
1718-51-0	p-Terphenyl-d14	85		65-153

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-1 Lab Sample ID: 480-49751-33

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG ID.:

Matrix: Solid Date Sampled: 11/07/2013 13:20

Reporting Basis: DRY Date Received: 11/08/2013 12:45

% Solids: 60.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	32.1	3.5	0.71	mg/Kg		J	SDL 1	6010C
7439-97-6	Mercury	0.32	0.033	0.013	mg/Kg		J	FD 1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-2
Lab Sample ID: 480-49751-32
Lab Name: TestAmerica Buffalo
Job No.: 480-49751-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/07/2013 13:15
Reporting Basis: DRY
Date Received: 11/08/2013 12:45
% Solids: 62.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL		Method
7440-38-2	Arsenic	55.1	3.2	0.64	mg/Kg		J	SDL	1	6010C
7439-97-6	Mercury	0.42	0.030	0.012	mg/Kg		J	FD	1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-3 | Lab Sample ID: 480-49751-39

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 15:30

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 69.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	3570	14.6	6.4	mg/Kg		J	MS, SDL 1	6010C
7440-36-0	Antimony	1.9	21.9	0.58	mg/Kg	J		1	6010C
7440-38-2	Arsenic	19.7	2.9	0.58	mg/Kg		J	SDL 1	6010C
7440-39-3	Barium	98.7	0.73	0.16	mg/Kg		J	MS, SDL 1	6010C
7440-41-7	Beryllium	0.38	0.29	0.041	mg/Kg			1	6010C
7440-43-9	Cadmium	1.9	0.29	0.044	mg/Kg		J	SDL 1	6010C
7440-70-2	Calcium	3640	72.9	4.8	mg/Kg		B J	MS, SDL 1	6010C
7440-47-3	Chromium	10.1	0.73	0.29	mg/Kg		J	SDL 1	6010C
7440-48-4	Cobalt	3.9	0.73	0.073	mg/Kg		J	SDL 1	6010C
7440-50-8	Copper	110	1.5	0.31	mg/Kg		J	MS, SDL 1	6010C
7439-89-6	Iron	19100	14.6	1.6	mg/Kg		J	SDL 1	6010C
7439-92-1	Lead	299	1.5	0.35	mg/Kg		J	SDL 1	6010C
7439-95-4	Magnesium	1110	29.2	1.4	mg/Kg		J	SDL 1	6010C
7439-96-5	Manganese	149	0.29	0.047	mg/Kg		J	MS, SDL, RPD, FD 1	6010C
7440-02-0	Nickel	11.3	7.3	0.34	mg/Kg		J	SDL 1	6010C
7440-09-7	Potassium	506	43.7	29.2	mg/Kg		J	MS 1	6010C
7782-49-2	Selenium	0.67	5.8	0.58	mg/Kg	J		1	6010C
7440-22-4	Silver	0.38	0.73	0.29	mg/Kg	J		1	6010C
7440-23-5	Sodium	223	204	19.0	mg/Kg			1	6010C
7440-28-0	Thallium	8.7	8.7	0.44	mg/Kg	U		1	6010C
7440-62-2	Vanadium	11.1	0.73	0.16	mg/Kg		J	SDL 1	6010C
7440-66-6	Zinc	439	2.9	0.22	mg/Kg		B J	SDL 1	6010C
7439-97-6	Mercury	0.22	0.027	0.011	mg/Kg		J	FD 1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-53 | Lab Sample ID: 480-49751-40

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 15:15

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 64.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	4180	14.3	6.3	mg/Kg		J	MS, SDL 1	6010C
7440-36-0	Antimony	1.9	21.5	0.57	mg/Kg	J		1	6010C
7440-38-2	Arsenic	22.2	2.9	0.57	mg/Kg		~~J~~	SDL 1	6010C
7440-39-3	Barium	112	0.72	0.16	mg/Kg		J	MS, SDL 1	6010C
7440-41-7	Beryllium	0.46	0.29	0.040	mg/Kg			1	6010C
7440-43-9	Cadmium	2.2	0.29	0.043	mg/Kg		J	SDL 1	6010C
7440-70-2	Calcium	4000	71.6	4.7	mg/Kg		~~B~~ J	MS, SDL 1	6010C
7440-47-3	Chromium	11.8	0.72	0.29	mg/Kg		J	SDL 1	6010C
7440-48-4	Cobalt	5.3	0.72	0.072	mg/Kg		J	SDL 1	6010C
7440-50-8	Copper	131	1.4	0.30	mg/Kg		J	MS, SDL 1	6010C
7439-89-6	Iron	21200	14.3	1.6	mg/Kg		J	SDL 1	6010C
7439-92-1	Lead	331	1.4	0.34	mg/Kg		J	SDL 1	6010C
7439-95-4	Magnesium	1140	28.7	1.3	mg/Kg		J	SDL 1	6010C
7439-96-5	Manganese	230	0.29	0.046	mg/Kg		J	MS, SDL, RPD, FD 1	6010C
7440-02-0	Nickel	12.8	7.2	0.33	mg/Kg		J	SDL 1	6010C
7440-09-7	Potassium	556	43.0	28.7	mg/Kg		J	MS 1	6010C
7782-49-2	Selenium	1.3	5.7	0.57	mg/Kg	J		1	6010C
7440-22-4	Silver	0.40	0.72	0.29	mg/Kg	J		1	6010C
7440-23-5	Sodium	257	201	18.6	mg/Kg			1	6010C
7440-28-0	Thallium	8.6	8.6	0.43	mg/Kg	U		1	6010C
7440-62-2	Vanadium	12.3	0.72	0.16	mg/Kg		J	SDL 1	6010C
7440-66-6	Zinc	481	2.9	0.22	mg/Kg		~~B~~ J	SDL 1	6010C
7439-97-6	Mercury	0.33	0.029	0.012	mg/Kg		J	FD 1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-5
Lab Sample ID: 480-49751-31
Lab Name: TestAmerica Buffalo
Job No.: 480-49751-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/07/2013 13:10
Reporting Basis: DRY
Date Received: 11/08/2013 12:45
% Solids: 65.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	50.4	3.2	0.65	mg/Kg		J	SDL 1	6010C
7439-97-6	Mercury	0.32	0.030	0.012	mg/Kg		J	FD 1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-4 | Lab Sample ID: 480-49751-41

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 16:20

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 60.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	13000	16.9	7.4	mg/Kg		J	MS, SDL 1	6010C
7440-36-0	Antimony	2.1	25.3	0.68	mg/Kg	J		1	6010C
7440-38-2	Arsenic	31.7	3.4	0.68	mg/Kg		J	SDL 1	6010C
7440-39-3	Barium	186	0.84	0.19	mg/Kg		J	MS, SDL 1	6010C
7440-41-7	Beryllium	1.1	0.34	0.047	mg/Kg			1	6010C
7440-43-9	Cadmium	1.7	0.34	0.051	mg/Kg		J	SDL 1	6010C
7440-70-2	Calcium	16500	84.5	5.6	mg/Kg		B J	MS, SDL 1	6010C
7440-47-3	Chromium	16.7	0.84	0.34	mg/Kg		J	SDL 1	6010C
7440-48-4	Cobalt	6.9	0.84	0.084	mg/Kg		J	SDL 1	6010C
7440-50-8	Copper	211	1.7	0.35	mg/Kg		J	MS, SDL 1	6010C
7439-89-6	Iron	28000	16.9	1.9	mg/Kg		J	SDL 1	6010C
7439-92-1	Lead	406	1.7	0.41	mg/Kg		J	SDL 1	6010C
7439-95-4	Magnesium	1470	33.8	1.6	mg/Kg		J	SDL 1	6010C
7439-96-5	Manganese	391	0.34	0.054	mg/Kg		J	MS, SDL, RPD, FD 1	6010C
7440-02-0	Nickel	16.8	8.4	0.39	mg/Kg		J	SDL 1	6010C
7440-09-7	Potassium	1200	50.7	33.8	mg/Kg		J	MS 1	6010C
7782-49-2	Selenium	1.1	6.8	0.68	mg/Kg	J		1	6010C
7440-22-4	Silver	0.65	0.84	0.34	mg/Kg	J		1	6010C
7440-23-5	Sodium	333	237	22.0	mg/Kg			1	6010C
7440-28-0	Thallium	10.1	10.1	0.51	mg/Kg	U		1	6010C
7440-62-2	Vanadium	24.8	0.84	0.19	mg/Kg		J	SDL 1	6010C
7440-66-6	Zinc	302	3.4	0.26	mg/Kg		B J	SDL 1	6010C
7439-97-6	Mercury	0.30	0.033	0.013	mg/Kg		J	FD 1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-6 | Lab Sample ID: 480-49751-43

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/08/2013 11:15

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 57.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	4160	17.7	7.8	mg/Kg		J	MS, SDL 1	6010C
7440-36-0	Antimony	2.6	26.5	0.71	mg/Kg	J		1	6010C
7440-38-2	Arsenic	26.1	3.5	0.71	mg/Kg		J	SDL 1	6010C
7440-39-3	Barium	105	0.88	0.19	mg/Kg		J	MS, SDL 1	6010C
7440-41-7	Beryllium	0.47	0.35	0.049	mg/Kg			1	6010C
7440-43-9	Cadmium	2.0	0.35	0.053	mg/Kg		J	SDL 1	6010C
7440-70-2	Calcium	4530	88.3	5.8	mg/Kg		BJ	MS, SDL 1	6010C
7440-47-3	Chromium	13.6	0.88	0.35	mg/Kg		J	SDL 1	6010C
7440-48-4	Cobalt	5.1	0.88	0.088	mg/Kg		J	SDL 1	6010C
7440-50-8	Copper	139	1.8	0.37	mg/Kg		J	SDL, MS 1	6010C
7439-89-6	Iron	25200	17.7	1.9	mg/Kg		J	SDL 1	6010C
7439-92-1	Lead	359	1.8	0.42	mg/Kg		J	SDL 1	6010C
7439-95-4	Magnesium	1090	35.3	1.6	mg/Kg		J	SDL 1	6010C
7439-96-5	Manganese	219	0.35	0.056	mg/Kg		J	MS, SDL, RD, FD 1	6010C
7440-02-0	Nickel	17.3	8.8	0.41	mg/Kg		J	SDL 1	6010C
7440-09-7	Potassium	547	53.0	35.3	mg/Kg		J	MS 1	6010C
7782-49-2	Selenium	1.9	7.1	0.71	mg/Kg	J		1	6010C
7440-22-4	Silver	0.58	0.88	0.35	mg/Kg	J		1	6010C
7440-23-5	Sodium	398	247	22.9	mg/Kg			1	6010C
7440-28-0	Thallium	10.6	10.6	0.53	mg/Kg	U		1	6010C
7440-62-2	Vanadium	14.0	0.88	0.19	mg/Kg		J	SDL 1	6010C
7440-66-6	Zinc	508	3.5	0.27	mg/Kg		BJ	SDL 1	6010C
7439-97-6	Mercury	0.17	0.032	0.013	mg/Kg		J	FD 1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-7
Lab Sample ID: 480-49751-42
Lab Name: TestAmerica Buffalo
Job No.: 480-49751-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/07/2013 17:00
Reporting Basis: DRY
Date Received: 11/08/2013 12:45
% Solids: 50.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	7510	21.5	9.4	mg/Kg		J	MS, SDL 1	6010C
7440-36-0	Antimony	3.5	32.2	0.86	mg/Kg	J		1	6010C
7440-38-2	Arsenic	23.8	4.3	0.86	mg/Kg		J	SDL 1	6010C
7440-39-3	Barium	204	1.1	0.24	mg/Kg		J	MS, SDL 1	6010C
7440-41-7	Beryllium	1.0	0.43	0.060	mg/Kg			1	6010C
7440-43-9	Cadmium	4.5	0.43	0.064	mg/Kg		J	SDL 1	6010C
7440-70-2	Calcium	15500	107	7.1	mg/Kg		B J	MS, SDL 1	6010C
7440-47-3	Chromium	20.8	1.1	0.43	mg/Kg		J	SDL 1	6010C
7440-48-4	Cobalt	5.7	1.1	0.11	mg/Kg		J	SDL 1	6010C
7440-50-8	Copper	127	2.1	0.45	mg/Kg		J	SDL 1	6010C
7439-89-6	Iron	35000	21.5	2.4	mg/Kg		J	MS, SDL 1	6010C
7439-92-1	Lead	1510	2.1	0.52	mg/Kg		J	SDL 1	6010C
7439-95-4	Magnesium	3580	43.0	2.0	mg/Kg		J	SDL 1	6010C
7439-96-5	Manganese	354	0.43	0.069	mg/Kg		J	MS, SDL, RPD, FD 1	6010C
7440-02-0	Nickel	17.7	10.7	0.49	mg/Kg		J	SDL 1	6010C
7440-09-7	Potassium	816	64.4	43.0	mg/Kg		J	MS 1	6010C
7782-49-2	Selenium	2.0	8.6	0.86	mg/Kg	J		1	6010C
7440-22-4	Silver	1.1	1.1	0.43	mg/Kg	U		1	6010C
7440-23-5	Sodium	406	301	27.9	mg/Kg			1	6010C
7440-28-0	Thallium	12.9	12.9	0.64	mg/Kg	U		1	6010C
7440-62-2	Vanadium	13.5	1.1	0.24	mg/Kg		J	SDL 1	6010C
7440-66-6	Zinc	1390	4.3	0.33	mg/Kg		B J	SDL 1	6010C
7439-97-6	Mercury	0.30	0.041	0.017	mg/Kg		J	FD 1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-8 | Lab Sample ID: 480-49751-44

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/08/2013 00:00

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 71.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	3820	13.4	5.9	mg/Kg		J	MS, SDL 1	6010C
7440-36-0	Antimony	8.1	20.1	0.53	mg/Kg	J		1	6010C
7440-38-2	Arsenic	39.8	2.7	0.53	mg/Kg		J	SDL 1	6010C
7440-39-3	Barium	195	0.67	0.15	mg/Kg		J	MS, SDL 1	6010C
7440-41-7	Beryllium	0.40	0.27	0.037	mg/Kg			1	6010C
7440-43-9	Cadmium	2.3	0.27	0.040	mg/Kg		J	SDL 1	6010C
7440-70-2	Calcium	10800	66.9	4.4	mg/Kg		BJ	MS, SDL 1	6010C
7440-47-3	Chromium	13.6	0.67	0.27	mg/Kg		J	SDL 1	6010C
7440-48-4	Cobalt	6.4	0.67	0.067	mg/Kg		J	SDL 1	6010C
7440-50-8	Copper	329	1.3	0.28	mg/Kg		J	MS, SDL 1	6010C
7439-89-6	Iron	35200	13.4	1.5	mg/Kg		J	SDL 1	6010C
7439-92-1	Lead	574	1.3	0.32	mg/Kg		J	SDL 1	6010C
7439-95-4	Magnesium	1810	26.7	1.2	mg/Kg		J	SDL 1	6010C
7439-96-5	Manganese	311	0.27	0.043	mg/Kg		J	MS, SDL, RPD, FD 1	6010C
7440-02-0	Nickel	16.4	6.7	0.31	mg/Kg		J	SDL 1	6010C
7440-09-7	Potassium	488	40.1	26.7	mg/Kg		J	MS 1	6010C
7782-49-2	Selenium	1.2	5.3	0.53	mg/Kg	J		1	6010C
7440-22-4	Silver	1.1	0.67	0.27	mg/Kg			1	6010C
7440-23-5	Sodium	220	187	17.4	mg/Kg			1	6010C
7440-28-0	Thallium	8.0	8.0	0.40	mg/Kg	U		1	6010C
7440-62-2	Vanadium	13.2	0.67	0.15	mg/Kg		J	SDL 1	6010C
7440-66-6	Zinc	530	2.7	0.20	mg/Kg		BJ	SDL 1	6010C
7439-97-6	Mercury	0.26	0.027	0.011	mg/Kg		J	FD 1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-9 | Lab Sample ID: 480-49751-45

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/08/2013 00:00

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 61.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	6920	16.5	7.3	mg/Kg		J	MS, SDL 1	6010C
7440-36-0	Antimony	3.1	24.8	0.66	mg/Kg	J		1	6010C
7440-38-2	Arsenic	16.9	3.3	0.66	mg/Kg		J	SDL 1	6010C
7440-39-3	Barium	150	0.83	0.18	mg/Kg		J	MS, SDL 1	6010C
7440-41-7	Beryllium	0.44	0.33	0.046	mg/Kg			1	6010C
7440-43-9	Cadmium	5.6	0.33	0.050	mg/Kg		J	SDL 1	6010C
7440-70-2	Calcium	18000	82.5	5.4	mg/Kg		J	MS, SDL 1	6010C
7440-47-3	Chromium	18.0	0.83	0.33	mg/Kg		J	SDL 1	6010C
7440-48-4	Cobalt	6.3	0.83	0.083	mg/Kg		J	SDL 1	6010C
7440-50-8	Copper	92.5	1.7	0.35	mg/Kg		J	MS, SDL 1	6010C
7439-89-6	Iron	24800	16.5	1.8	mg/Kg		J	SDL 1	6010C
7439-92-1	Lead	1110	1.7	0.40	mg/Kg		J	SDL 1	6010C
7439-95-4	Magnesium	6130	33.0	1.5	mg/Kg		J	SDL 1	6010C
7439-96-5	Manganese	342	0.33	0.053	mg/Kg		J	MS, SDL, RPD, FD 1	6010C
7440-02-0	Nickel	20.3	8.3	0.38	mg/Kg		J	SDL 1	6010C
7440-09-7	Potassium	998	49.5	33.0	mg/Kg		J	MS 1	6010C
7782-49-2	Selenium	1.0	6.6	0.66	mg/Kg	J		1	6010C
7440-22-4	Silver	0.41	0.83	0.33	mg/Kg	J		1	6010C
7440-23-5	Sodium	193	231	21.5	mg/Kg	J		1	6010C
7440-28-0	Thallium	9.9	9.9	0.50	mg/Kg	U		1	6010C
7440-62-2	Vanadium	13.7	0.83	0.18	mg/Kg		J	SDL 1	6010C
7440-66-6	Zinc	836	3.3	0.25	mg/Kg		J	SDL 1	6010C
7439-97-6	Mercury	0.13	0.031	0.012	mg/Kg		J	FD 1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-10 | Lab Sample ID: 480-49751-30

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 11:45

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 62.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	35.1	3.4	0.68	mg/Kg		J	SDL 1	6010C
7439-97-6	Mercury	0.42	0.029	0.012	mg/Kg		J	FD 1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-11 Lab Sample ID: 480-49751-29

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG ID.:

Matrix: Solid Date Sampled: 11/07/2013 11:40

Reporting Basis: DRY Date Received: 11/08/2013 12:45

% Solids: 81.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	15.1	2.3	0.47	mg/Kg		J	SDL 1	6010C
7439-97-6	Mercury	0.11	0.023	0.0095	mg/Kg		J	FD 1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-12 Lab Sample ID: 480-49751-28

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG ID.:

Matrix: Solid Date Sampled: 11/07/2013 11:30

Reporting Basis: DRY Date Received: 11/08/2013 12:45

% Solids: 91.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	2.8	2.3	0.46	mg/Kg		J	~~1~~	~~6010C~~
7439-97-6	Mercury	0.031	0.021	0.0087	mg/Kg		J	FD 1	7471B

CCVL, SDL

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-13 | Lab Sample ID: 480-49751-27

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 11:20

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 93.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	2.7	2.3	0.46	mg/Kg		J	1	6010C
7439-97-6	Mercury	0.017	0.021	0.0087	mg/Kg	J		1	7471B

CCVL, SDL

<RL, FD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-14 | Lab Sample ID: 480-49751-26

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 11:13

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 87.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	9.1	2.5	0.50	mg/Kg		J	SDL 1	6010C
7439-97-6	Mercury	0.038	0.023	0.0092	mg/Kg		J	FD 1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-15 | Lab Sample ID: 480-49751-23

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 09:32

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 77.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	16.3	2.8	0.56	mg/Kg		J	SDL 1	6010C
7439-97-6	Mercury	0.44	0.025	0.010	mg/Kg		J	FD 1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-16 Lab Sample ID: 480-49751-22

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG ID.:

Matrix: Solid Date Sampled: 11/07/2013 09:27

Reporting Basis: DRY Date Received: 11/08/2013 12:45

% Solids: 72.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	13.0	2.8	0.57	mg/Kg		J	SDL 1	6010C
7439-97-6	Mercury	0.31	0.027	0.011	mg/Kg		J	FD 1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-17 | Lab Sample ID: 480-49751-19

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 09:05

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 73.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.1	3.0	0.59	mg/Kg		J	SDL 1	6010C
7439-97-6	Mercury	0.059	0.027	0.011	mg/Kg		J	FD 1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-18 Lab Sample ID: 480-49751-21

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG ID.:

Matrix: Solid Date Sampled: 11/07/2013 09:20

Reporting Basis: DRY Date Received: 11/08/2013 12:45

% Solids: 84.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	11.8	2.2	0.43	mg/Kg		J	SDL 1	6010C
7439-97-6	Mercury	0.062	0.023	0.0094	mg/Kg		J	FD 1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-19 | Lab Sample ID: 480-49751-25

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 10:00

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 78.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	46.0	2.6	0.51	mg/Kg		J	SDL 1	6010C
7439-97-6	Mercury	0.087	0.026	0.011	mg/Kg		J	FD 1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-20 | Lab Sample ID: 480-49751-24

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 09:45

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 77.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	8.7	2.8	0.55	mg/Kg		J	SDL 1	6010C
7439-97-6	Mercury	0.095	0.026	0.011	mg/Kg		J	MFD 1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CS-21 Lab Sample ID: 480-49751-20

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG ID.:

Matrix: Solid Date Sampled: 11/07/2013 09:15

Reporting Basis: DRY Date Received: 11/08/2013 12:45

% Solids: 83.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	11.5	2.4	0.49	mg/Kg		J	SDL 1	6010C
7439-97-6	Mercury	0.013	0.024	0.0099	mg/Kg	J		<RL, FD 1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: RS-1 | Lab Sample ID: 480-49751-34

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 13:55

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 30.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	10.3	7.1	1.4	mg/Kg		J	1	6010C
7439-97-6	Mercury	0.40	0.059	0.024	mg/Kg		J	1	7471B

SOL456

As: CCVL

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: RS-2 | Lab Sample ID: 480-49751-35

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 14:05

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 43.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	10.7	5.1	1.0	mg/Kg		J	1	6010C
7439-97-6	Mercury	0.34	0.048	0.019	mg/Kg		J	1	7471B

Sol 43%

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: RS-3 | Lab Sample ID: 480-49751-36

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 14:10

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 45.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	8.6	4.1	0.81	mg/Kg		J	1	6010C
7439-97-6	Mercury	0.13	0.043	0.017	mg/Kg		J	1	7471B

SoL<50

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: RS-4 | Lab Sample ID: 480-49751-37

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 14:15

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 52.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.7	4.2	0.83	mg/Kg		J	1	6010C
7439-97-6	Mercury	0.086	0.039	0.016	mg/Kg			1	7471B

CCVL

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: RS-5 | Lab Sample ID: 480-49751-38

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 14:55

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 32.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	8.4	5.8	1.2	mg/Kg		J	1	6010C
7439-97-6	Mercury	0.35	0.057	0.023	mg/Kg		J	1	7471B

SOL250

As: CCVL

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-1 | Lab Sample ID: 480-49751-33

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 13:20

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 60.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
57-12-5	Cyanide, Total	115	2.9	1.4	mg/Kg		J	2	9012B	FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-2 | Lab Sample ID: 480-49751-32

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 13:15

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 62.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	45.3	1.4	0.70	mg/Kg		J	1	9012B

FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-3
Lab Sample ID: 480-49751-39
Lab Name: TestAmerica Buffalo
Job No.: 480-49751-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/07/2013 15:30
Reporting Basis: DRY
Date Received: 11/08/2013 12:45
% Solids: 69.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	84.7	2.8	1.4	mg/Kg		J	2	9012B

FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-53 | Lab Sample ID: 480-49751-40

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 15:15

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 64.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	170	15.0	7.3	mg/Kg		J	10	9012B

FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-4
Lab Sample ID: 480-49751-41
Lab Name: TestAmerica Buffalo
Job No.: 480-49751-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/07/2013 16:20
Reporting Basis: DRY
Date Received: 11/08/2013 12:45
% Solids: 60.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	26.6	1.6	0.79	mg/Kg		J	1	9012B

FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-5 | Lab Sample ID: 480-49751-31

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 13:10

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 65.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	47.1	1.3	0.65	mg/Kg		J	1	9012B

FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-6 Lab Sample ID: 480-49751-43

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG ID.:

Matrix: Solid Date Sampled: 11/08/2013 11:15

Reporting Basis: DRY Date Received: 11/08/2013 12:45

% Solids: 57.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
57-12-5	Cyanide, Total	105	3.4	1.6	mg/Kg		J	2	9012B	FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-7 | Lab Sample ID: 480-49751-42

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 17:00

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 50.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
57-12-5	Cyanide, Total	216	17.2	8.3	mg/Kg		J	10	9012B	FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-8 Lab Sample ID: 480-49751-44

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG ID.:

Matrix: Solid Date Sampled: 11/08/2013 00:00

Reporting Basis: DRY Date Received: 11/08/2013 12:45

% Solids: 71.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	30.4	1.4	0.66	mg/Kg		J	1	9012B

FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-9 | Lab Sample ID: 480-49751-45

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/08/2013 00:00

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 61.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
57-12-5	Cyanide, Total	29.7	1.5	0.72	mg/Kg		J	1	9012B	FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-10 | Lab Sample ID: 480-49751-30

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 11:45

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 62.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
57-12-5	Cyanide, Total	33.5	1.6	0.75	mg/Kg		J	1	9012B	FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-11 | Lab Sample ID: 480-49751-29

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 11:40

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 81.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	17.6	1.1	0.54	mg/Kg		~~B~~ J	1	9012B

FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-12 Lab Sample ID: 480-49751-28

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG ID.:

Matrix: Solid Date Sampled: 11/07/2013 11:30

Reporting Basis: DRY Date Received: 11/08/2013 12:45

% Solids: 91.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.97	0.97	0.47	mg/Kg	UJ		1	9012B

FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-13
Lab Sample ID: 480-49751-27
Lab Name: TestAmerica Buffalo
Job No.: 480-49751-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/07/2013 11:20
Reporting Basis: DRY
Date Received: 11/08/2013 12:45
% Solids: 93.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.99	0.99	0.48	mg/Kg	UJ		1	9012B

FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-14 | Lab Sample ID: 480-49751-26

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 11:13

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 87.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
57-12-5	Cyanide, Total	1.8	1.0	0.49	mg/Kg		J	1	9012B	FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-15 | Lab Sample ID: 480-49751-23

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 09:32

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 77.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.97	1.3	0.62	mg/Kg	J		1	9012B

<RL
FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-16 | Lab Sample ID: 480-49751-22

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 09:27

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 72.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	12.4	1.3	0.62	mg/Kg		J	1	9012B

FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-17 | Lab Sample ID: 480-49751-19

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 09:05

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 73.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.69	1.2	0.60	mg/Kg	J		1	9012B

<RL
FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-18 | Lab Sample ID: 480-49751-21

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 09:20

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 84.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	1.9	1.2	0.56	mg/Kg		J	1	9012B

FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-19 | Lab Sample ID: 480-49751-25

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 10:00

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 78.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	60.0	2.3	1.1	mg/Kg		~~B~~ J	2	9012B

FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-20
Lab Sample ID: 480-49751-24
Lab Name: TestAmerica Buffalo
Job No.: 480-49751-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/07/2013 09:45
Reporting Basis: DRY
Date Received: 11/08/2013 12:45
% Solids: 77.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	13.0	1.3	0.61	mg/Kg		J	1	9012B

FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-21
Lab Sample ID: 480-49751-20
Lab Name: TestAmerica Buffalo
Job No.: 480-49751-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/07/2013 09:15
Reporting Basis: DRY
Date Received: 11/08/2013 12:45
% Solids: 83.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	9.8	1.1	0.53	mg/Kg		J	1	9012B

FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: RS-1 Lab Sample ID: 480-49751-34

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG ID.:

Matrix: Solid Date Sampled: 11/07/2013 13:55

Reporting Basis: DRY Date Received: 11/08/2013 12:45

% Solids: 30.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	15.4	3.3	1.6	mg/Kg		J	1	9012B

MS
FD

Sol<50

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: RS-2
Lab Sample ID: 480-49751-35
Lab Name: TestAmerica Buffalo
Job No.: 480-49751-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/07/2013 14:05
Reporting Basis: DRY
Date Received: 11/08/2013 12:45
% Solids: 43.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	12.2	2.0	0.98	mg/Kg		J	1	9012B

MS
FD
sol<50%.

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: RS-3 | Lab Sample ID: 480-49751-36

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 14:10

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 45.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	28.2	1.9	0.90	mg/Kg		J	1	9012B

MS
FD
SOL<60%.

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: RS-4 | Lab Sample ID: 480-49751-37

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 14:15

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 52.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	1.9	1.8	0.89	mg/Kg		J	1	9012B

MS
FD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: RS-5 | Lab Sample ID: 480-49751-38

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/07/2013 14:55

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 32.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	67.2	2.9	1.4	mg/Kg		J	1	9012B

MS
FD
Sol. <50%.

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-3
Lab Sample ID: 480-49751-39
Lab Name: TestAmerica Canton
Job No.: 480-49751-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/07/2013 15:30
Reporting Basis: DRY
Date Received: 11/08/2013 12:45
% Solids: 69.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	3.4	5.7	1.9	mg/Kg	J		5	7196A

< RL
CCB

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-53
Lab Sample ID: 480-49751-40
Lab Name: TestAmerica Canton
Job No.: 480-49751-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/07/2013 15:15
Reporting Basis: DRY
Date Received: 11/08/2013 12:45
% Solids: 64.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	6.2	6.2	2.1	mg/Kg	U		5	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-4
Lab Sample ID: 480-49751-41
Lab Name: TestAmerica Canton
Job No.: 480-49751-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/07/2013 16:20
Reporting Basis: DRY
Date Received: 11/08/2013 12:45
% Solids: 60.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	2.8	6.6	2.2	mg/Kg	J		5	7196A

<LRL
CCB

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-6 | Lab Sample ID: 480-49751-43

Lab Name: TestAmerica Canton | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/08/2013 11:15

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 57.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	7.0	7.0	2.4	mg/Kg	U		5	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-7
Lab Sample ID: 480-49751-42
Lab Name: TestAmerica Canton
Job No.: 480-49751-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/07/2013 17:00
Reporting Basis: DRY
Date Received: 11/08/2013 12:45
% Solids: 50.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	4.0	8.0	2.7	mg/Kg	J		5	7196A

LAL
CCD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-8 | Lab Sample ID: 480-49751-44

Lab Name: TestAmerica Canton | Job No.: 480-49751-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/08/2013 00:00

Reporting Basis: DRY | Date Received: 11/08/2013 12:45

% Solids: 71.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	5.6	5.6	1.9	mg/Kg	U		5	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CS-9
Lab Sample ID: 480-49751-45
Lab Name: TestAmerica Canton
Job No.: 480-49751-1
SDG ID.:
Matrix: Solid
Date Sampled: 11/08/2013 00:00
Reporting Basis: DRY
Date Received: 11/08/2013 12:45
% Solids: 61.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Cr (VI)	6.5	6.5	2.2	mg/Kg	U		5	7196A

Appendix C

Support Documentation

SAMPLE SUMMARY

Client: AECOM, Inc. Job Number: 480-49751-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-49751-19	CS-17	Solid	11/07/2013 0905	11/08/2013 1245
480-49751-20	CS-21	Solid	11/07/2013 0915	11/08/2013 1245
480-49751-21	CS-18	Solid	11/07/2013 0920	11/08/2013 1245
480-49751-22	CS-16	Solid	11/07/2013 0927	11/08/2013 1245
480-49751-23	CS-15	Solid	11/07/2013 0932	11/08/2013 1245
480-49751-24	CS-20	Solid	11/07/2013 0945	11/08/2013 1245
480-49751-25	CS-19	Solid	11/07/2013 1000	11/08/2013 1245
480-49751-26	CS-14	Solid	11/07/2013 1113	11/08/2013 1245
480-49751-27	CS-13	Solid	11/07/2013 1120	11/08/2013 1245
480-49751-28	CS-12	Solid	11/07/2013 1130	11/08/2013 1245
480-49751-29	CS-11	Solid	11/07/2013 1140	11/08/2013 1245
480-49751-30	CS-10	Solid	11/07/2013 1145	11/08/2013 1245
480-49751-31	CS-5	Solid	11/07/2013 1310	11/08/2013 1245
480-49751-32	CS-2	Solid	11/07/2013 1315	11/08/2013 1245
480-49751-33	CS-1	Solid	11/07/2013 1320	11/08/2013 1245
480-49751-34	RS-1	Solid	11/07/2013 1355	11/08/2013 1245
480-49751-34MS	RS-1 MS	Solid	11/07/2013 1355	11/08/2013 1245
480-49751-34MSD	RS-1 MSD	Solid	11/07/2013 1355	11/08/2013 1245
480-49751-35	RS-2	Solid	11/07/2013 1405	11/08/2013 1245
480-49751-36	RS-3	Solid	11/07/2013 1410	11/08/2013 1245
480-49751-37	RS-4	Solid	11/07/2013 1415	11/08/2013 1245
480-49751-38	RS-5	Solid	11/07/2013 1455	11/08/2013 1245
480-49751-39	CS-3	Solid	11/07/2013 1530	11/08/2013 1245
480-49751-39MS	CS-3 MS	Solid	11/07/2013 1515	11/08/2013 1245
480-49751-39MSD	CS-3 MSD	Solid	11/07/2013 1515	11/08/2013 1245
480-49751-40	CS-53	Solid	11/07/2013 1515	11/08/2013 1245
480-49751-41	CS-4	Solid	11/07/2013 1620	11/08/2013 1245
480-49751-42	CS-7	Solid	11/07/2013 1700	11/08/2013 1245
480-49751-43	CS-6	Solid	11/08/2013 1115	11/08/2013 1245
480-49751-44	CS-8	Solid	11/08/2013 0000	11/08/2013 1245
480-49751-45	CS-9	Solid	11/08/2013 0000	11/08/2013 1245
480-49751-47TB	TRIP BLANK	Water	11/08/2013 0000	11/08/2013 1245

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: L. Townsend	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-40987-10905.1
Client Contact: Tamara Raby	Phone:	E-Mail: john.schove@testamericainc.com		Page: Page 1 of 3
Company: AECOM, Inc.				Job #:
Address: 1001 West Seneca Street Suite 204	Due Date Requested:			
City: Ithaca	TAT Requested (days): Standard			
State, Zip: NY, 14850				
Phone:	PO #: Purchase Order not required			
Email: Tamara.Raby@aecom.com	WO #:			
Project Name: AECOM, Mineral Springs	Project #: 48008324			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9012B - Cyanide, Total	6010C, 7471B - Arsenic, Mercury	8260C - TCL list OLM04.2	8270C - TCL SVOA - OLM04.2	3500_CR_D - Cr (VI)									Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N										
CS-17	11/7/13	0905	G	Solid	N	N	X	X												2	
CS-21		0915	G	Solid	N	N	X	X												2	
CS-18		0920	G	Solid	N	N	X	X												2	
CS-16		0927	G	Solid	N	N	X	X												2	
CS-15		0932	G	Solid	N	N	X	X												2	
CS-20		0945	G	Solid	N	N	X	X												2	
CS-19		1000	G	Solid	N	N	X	X												2	
CS-14		1113	G	Solid	N	N	X	X												2	
CS-13		1120	G	Solid	N	N	X	X												2	
CS-12		1130	G	Solid	N	N	X	X												2	
CS-11		1140	G	Solid	N	N	X	X												2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Category B

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by: Tamara Raby	Date/Time: 11/8/13 1245	Company	Received by:	Date/Time: 11/8/13 1245	Company TA BUFFALO
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #8 4.1, 4.0, 3.8

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11/27/2013

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: L. Townsend	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-40987-10905.2
Client Contact: Tamara Raby	Phone:	E-Mail: john.schove@testamericainc.com		Page: Page 2 of 3
Company: AECOM, Inc.				Job #:
Address: 1001 West Seneca Street Suite 204	Due Date Requested:	Analysis Requested		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
City: Ithaca	TAT Requested (days):			
State, Zip: NY, 14850				
Phone:	PO #: Purchase Order not required			Other:
Email: Tamara.Raby@aecom.com	WO #:			
Project Name: AECOM, Mineral Springs	Project #: 48008324			
Site: New York	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9012B - Cyanide, Total	6010C, 7471B Arsenic, Mercury	8260C - TCL list OLM04.2	8270C - TCL SVOA - OLM04.2	3500_CR_D - Cr (VI)	6010/7471 TAL Metals, Hg 9012B-Total Cn						Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N								
CS-10	11/7/13	1145	G	Solid	N	N	X	X										2	
CS-5		1310	G	Solid	N	N	X	X										2	
CS-2		1315	G	Solid	N	N	X	X										2	
CS-1		1320	G	Solid	N	N	X	X										2	
RS-1		1355	G	Solid	N	N	X	X										2	
RS-2		1405	G	Solid	N	N	X	X										2	
RS-3		1410	G	Solid	N	N	X	X										2	
RS-4		1415	G	Solid	N	N	X	X										2	
RS-5		1455	G	Solid	N	N	X	X										2	
RS-1 MS/MSD		1355	G	Solid	N	Y	X	X										2	
CS-3		1530	G	Solid	N	N	X	X	X	X	X	X	X					2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Category B

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Tamara Raby	11/8/13 1245			11/8/13 1215	TA BUFFALO
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #2 4.1, 4.0, 3.8

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11/27/2013

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: L. Townsend	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-40987-10905.3
Client Contact: Tamara Raby	Phone:	E-Mail: john.schove@testamericainc.com		Page: Page 3 of 3
Company: AECOM, Inc.				Job #:
Address: 1001 West Seneca Street Suite 204	Due Date Requested:			
City: Ithaca	TAT Requested (days):			
State, Zip: NY, 14850				
Phone:	PO #: Purchase Order not required			
Email: Tamara.Raby@aecom.com	WO #:			
Project Name: AECOM, Mineral Springs	Project #: 48008324			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9012B - Cyanide, Total	6010B 7471B TAL metals, Hg	8260C - TCL list OLM04.2	8270C - TCL SVOA - OLM04.2	3500_CR_D - Cr (VI)	Total Number of containers	Special Instructions/Note:
		Preservation Code:					N	N	N	N	N		
CS-S3	11/7/13	1515	G	Solid	N	N	X	X	X	X	X	3	
CS-3MS		1515	G	Solid	N	N	X	X	X	X	X	3	MS/MSD for CS-3
CS-3MSD		1515	G	Solid	N	N	X	X	X	X	X	3	
CS-4		1620	G	S	N	N	X	X	X	X	X	3	
CS-7		1700	G	S	N	N	X	X	X	X	X	3	
CS-6	11/8/13	1115	G	S	N	N	X	X	X	X	X	3	
CS-8	11/8/13		G	S	N	N	X	X	X	X	X	3	
CS-9	11/8/13		G	S	N	N	X	X	X	X	X	3	
TRIP Blank	11/8/13		G	W					X			2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Category B

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Tamara Raby	11/8/13 1245			11/8/13 1245	TA BUFFALO
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #2 4.1, 4.0, 3.8

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11/22/2013

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 480-49751-1

Login Number: 49751
List Number: 1
Creator: Stau, Brandon M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	aecom
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Lab Sample ID: CCVIS 480-151404/3 Calibration Date: 11/12/2013 09:47

Instrument ID: HP5973F Calib Start Date: 11/07/2013 01:22

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 11/07/2013 03:57

Lab File ID: F3521.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2871	0.2367	0.1000	41.2	50.0	-17.5	20.0
Chloromethane	Ave	0.2740	0.2641	0.1000	48.2	50.0	-3.6	20.0
Vinyl chloride	Ave	0.2477	0.2448	0.1000	49.4	50.0	-1.1	20.0
Bromomethane	Ave	0.1185	0.1254	0.1000	52.9	50.0	5.9	20.0
Chloroethane	Ave	0.1229	0.1256	0.1000	51.1	50.0	2.2	20.0
Trichlorofluoromethane	Ave	0.2989	0.3174	0.1000	53.1	50.0	6.2	20.0
Acrolein	Ave	0.0566	0.0582		1030	1000	2.8	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2884	0.2869	0.1000	49.7	50.0	-0.5	20.0
1,1-Dichloroethene	Ave	0.3196	0.2869	0.1000	44.9	50.0	-10.2	20.0
Acetone	Lin1		0.1265	0.1000	277	250	10.8	20.0
Iodomethane	Ave	0.4522	0.4233		46.8	50.0	-6.4	20.0
Carbon disulfide	Ave	1.001	0.9236	0.1000	46.1	50.0	-7.7	20.0
Methyl acetate	Lin1		0.4103	0.1000	50.5	50.0	0.9	20.0
Acetonitrile	Ave	0.0269	0.0271		2020	2000	1.0	20.0
Methylene Chloride	Ave	0.3612	0.3191	0.1000	44.2	50.0	-11.6	20.0
Methyl tert-butyl ether	Ave	1.069	1.022	0.1000	47.8	50.0	-4.4	20.0
trans-1,2-Dichloroethene	Ave	0.3476	0.3156	0.1000	45.4	50.0	-9.2	20.0
Acrylonitrile	Ave	0.1381	0.1400		253	250	1.4	20.0
Vinyl acetate	Ave	0.7121	0.7304		256	250	2.6	20.0
1,1-Dichloroethane	Ave	0.6163	0.5613	0.2000	45.5	50.0	-8.9	20.0
2-Butanone (MEK)	Ave	0.1959	0.1980	0.1000	253	250	1.1	20.0
2,2-Dichloropropane	Ave	0.5005	0.4367		43.6	50.0	-12.7	20.0
cis-1,2-Dichloroethene	Ave	0.3737	0.3427	0.1000	45.8	50.0	-8.3	20.0
Chlorobromomethane	Ave	0.1735	0.1592		45.9	50.0	-8.3	20.0
Tetrahydrofuran	Ave	0.1360	0.1337		246	250	-1.6	20.0
Chloroform	Ave	0.5811	0.5304	0.2000	45.6	50.0	-8.7	20.0
1,1,1-Trichloroethane	Ave	0.4796	0.4281	0.1000	44.6	50.0	-10.7	20.0
Cyclohexane	Ave	0.6413	0.6074	0.1000	47.4	50.0	-5.3	20.0
1,1-Dichloropropene	Ave	0.4899	0.4375		44.7	50.0	-10.7	20.0
Carbon tetrachloride	Ave	0.4190	0.3571	0.1000	42.6	50.0	-14.8	20.0
Benzene	Ave	1.429	1.268	0.5000	44.4	50.0	-11.3	20.0
1,2-Dichloroethane	Ave	0.4465	0.4286	0.1000	48.0	50.0	-4.0	20.0
Trichloroethene	Ave	0.3540	0.3135	0.2000	44.3	50.0	-11.4	20.0
Methylcyclohexane	Ave	0.6381	0.6036	0.1000	47.3	50.0	-5.4	20.0
1,2-Dichloropropane	Ave	0.3436	0.3174	0.1000	46.2	50.0	-7.6	20.0
Dibromomethane	Ave	0.1929	0.1807	0.1000	46.8	50.0	-6.3	20.0
Bromodichloromethane	Ave	0.4083	0.3754	0.2000	46.0	50.0	-8.0	20.0
2-Chloroethyl vinyl ether	Ave	0.2028	0.2094		258	250	3.3	20.0
cis-1,3-Dichloropropene	Ave	0.5437	0.4978	0.2000	45.8	50.0	-8.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7960	0.7828	0.1000	246	250	-1.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Lab Sample ID: CCVIS 480-151404/3 Calibration Date: 11/12/2013 09:47

Instrument ID: HP5973F Calib Start Date: 11/07/2013 01:22

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 11/07/2013 03:57

Lab File ID: F3521.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene	Ave	2.057	1.589	0.4000	38.6	50.0	-22.7*	20.0
Ethyl methacrylate	Ave	0.9306	0.8782		47.2	50.0	-5.6	20.0
trans-1,3-Dichloropropene	Ave	1.010	0.8957	0.1000	44.3	50.0	-11.4	20.0
1,1,2-Trichloroethane	Ave	0.4896	0.4498	0.1000	45.9	50.0	-8.1	20.0
Tetrachloroethene	Ave	0.7927	0.6819	0.2000	43.0	50.0	-14.0	20.0
1,3-Dichloropropane	Ave	1.044	0.9536		45.7	50.0	-8.7	20.0
2-Hexanone	Ave	0.5755	0.5680	0.1000	247	250	-1.3	20.0
Dibromochloromethane	Ave	0.5961	0.5333	0.1000	44.7	50.0	-10.5	20.0
1,2-Dibromoethane	Ave	0.5995	0.5372		44.8	50.0	-10.4	20.0
Chlorobenzene	Ave	1.952	1.716	0.5000	44.0	50.0	-12.1	20.0
Ethylbenzene	Ave	3.595	3.002	0.1000	41.7	50.0	-16.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6233	0.5532		44.4	50.0	-11.3	20.0
m,p-Xylene	Ave	1.435	1.158	0.1000	80.7	100	-19.3	20.0
o-Xylene	Ave	1.337	1.110	0.3000	41.5	50.0	-16.9	20.0
Styrene	Ave	2.137	1.884	0.3000	44.1	50.0	-11.8	50.0
Bromoform	Lin1		0.3170	0.1000	37.6	50.0	-24.8*	20.0
Isopropylbenzene	Ave	3.551	3.133	0.1000	44.1	50.0	-11.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8564	0.7957	0.3000	46.5	50.0	-7.1	20.0
Bromobenzene	Ave	0.8970	0.7905		44.1	50.0	-11.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2072	0.2128		257	250	2.7	20.0
N-Propylbenzene	Ave	4.203	3.731		44.4	50.0	-11.2	20.0
1,2,3-Trichloropropane	Ave	0.2493	0.2313		46.4	50.0	-7.2	20.0
2-Chlorotoluene	Ave	0.8399	0.7443		44.3	50.0	-11.4	20.0
1,3,5-Trimethylbenzene	Ave	3.036	2.652		43.7	50.0	-12.6	20.0
4-Chlorotoluene	Ave	0.8774	0.7816		44.5	50.0	-10.9	20.0
tert-Butylbenzene	Ave	0.6615	0.5742		43.4	50.0	-13.2	50.0
1,2,4-Trimethylbenzene	Ave	3.124	2.585		41.4	50.0	-17.2	20.0
sec-Butylbenzene	Ave	3.821	3.394		44.4	50.0	-11.2	20.0
4-Isopropyltoluene	Ave	3.186	2.860		44.9	50.0	-10.2	20.0
1,3-Dichlorobenzene	Ave	1.740	1.557	0.6000	44.7	50.0	-10.5	20.0
1,4-Dichlorobenzene	Ave	1.743	1.552	0.5000	44.5	50.0	-11.0	20.0
n-Butylbenzene	Ave	2.900	2.581		44.5	50.0	-11.0	20.0
1,2-Dichlorobenzene	Ave	1.612	1.441	0.4000	44.7	50.0	-10.6	20.0
1,2-Dibromo-3-Chloropropane	Lin1		0.1229	0.0500	40.1	50.0	-19.7	20.0
1,2,4-Trichlorobenzene	Ave	0.9709	0.8792	0.2000	45.3	50.0	-9.4	20.0
Hexachlorobutadiene	Ave	0.5529	0.5093		46.1	50.0	-7.9	20.0
Naphthalene	Ave	2.563	2.137		41.7	50.0	-16.6	20.0
1,2,3-Trichlorobenzene	Ave	0.8732	0.7893		45.2	50.0	-9.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1615	0.1606		49.7	50.0	-0.6	20.0
Toluene-d8 (Surr)	Ave	2.252	2.144		47.6	50.0	-4.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6768	0.6619		48.9	50.0	-2.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Lab Sample ID: CCVIS 480-151714/3 Calibration Date: 11/13/2013 10:41

Instrument ID: HP5973F Calib Start Date: 11/07/2013 01:22

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 11/07/2013 03:57

Lab File ID: F3546.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2871	0.2525	0.1000	44.0	50.0	-12.1	20.0
Chloromethane	Ave	0.2740	0.2833	0.1000	51.7	50.0	3.4	20.0
Vinyl chloride	Ave	0.2477	0.2620	0.1000	52.9	50.0	5.8	20.0
Bromomethane	Ave	0.1185	0.1310	0.1000	55.3	50.0	10.6	20.0
Chloroethane	Ave	0.1229	0.1351	0.1000	54.9	50.0	9.8	20.0
Trichlorofluoromethane	Ave	0.2989	0.3621	0.1000	60.6	50.0	21.2*	20.0
Acrolein	Ave	0.0566	0.0595		1050	1000	5.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2884	0.2919	0.1000	50.6	50.0	1.2	20.0
1,1-Dichloroethene	Ave	0.3196	0.3155	0.1000	49.3	50.0	-1.3	20.0
Acetone	Lin1		0.1282	0.1000	281	250	12.3	20.0
Iodomethane	Ave	0.4522	0.4303		47.6	50.0	-4.8	20.0
Carbon disulfide	Ave	1.001	0.9381	0.1000	46.9	50.0	-6.3	20.0
Methyl acetate	Lin1		0.4289	0.1000	52.9	50.0	5.7	20.0
Acetonitrile	Ave	0.0269	0.0284		2110	2000	5.5	20.0
Methylene Chloride	Ave	0.3612	0.3434	0.1000	47.5	50.0	-4.9	20.0
Methyl tert-butyl ether	Ave	1.069	1.022	0.1000	47.8	50.0	-4.4	20.0
trans-1,2-Dichloroethene	Ave	0.3476	0.3459	0.1000	49.8	50.0	-0.5	20.0
Acrylonitrile	Ave	0.1381	0.1401		254	250	1.4	20.0
Vinyl acetate	Ave	0.7121	0.7365		259	250	3.4	20.0
1,1-Dichloroethane	Ave	0.6163	0.6210	0.2000	50.4	50.0	0.8	20.0
2-Butanone (MEK)	Ave	0.1959	0.2009	0.1000	256	250	2.6	20.0
2,2-Dichloropropane	Ave	0.5005	0.4791		47.9	50.0	-4.3	20.0
cis-1,2-Dichloroethene	Ave	0.3737	0.3715	0.1000	49.7	50.0	-0.6	20.0
Chlorobromomethane	Ave	0.1735	0.1754		50.6	50.0	1.1	20.0
Tetrahydrofuran	Ave	0.1360	0.1352		249	250	-0.6	20.0
Chloroform	Ave	0.5811	0.5821	0.2000	50.1	50.0	0.2	20.0
1,1,1-Trichloroethane	Ave	0.4796	0.4739	0.1000	49.4	50.0	-1.2	20.0
Cyclohexane	Ave	0.6413	0.6013	0.1000	46.9	50.0	-6.2	20.0
1,1-Dichloropropene	Ave	0.4899	0.4776		48.8	50.0	-2.5	20.0
Carbon tetrachloride	Ave	0.4190	0.3984	0.1000	47.5	50.0	-4.9	20.0
Benzene	Ave	1.429	1.390	0.5000	48.6	50.0	-2.7	20.0
1,2-Dichloroethane	Ave	0.4465	0.4617	0.1000	51.7	50.0	3.4	20.0
Trichloroethene	Ave	0.3540	0.3438	0.2000	48.6	50.0	-2.9	20.0
Methylcyclohexane	Ave	0.6381	0.5987	0.1000	46.9	50.0	-6.2	20.0
1,2-Dichloropropane	Ave	0.3436	0.3503	0.1000	51.0	50.0	2.0	20.0
Dibromomethane	Ave	0.1929	0.1995	0.1000	51.7	50.0	3.4	20.0
Bromodichloromethane	Ave	0.4083	0.4166	0.2000	51.0	50.0	2.0	20.0
2-Chloroethyl vinyl ether	Ave	0.2028	0.2018		249	250	-0.5	20.0
cis-1,3-Dichloropropene	Ave	0.5437	0.5405	0.2000	49.7	50.0	-0.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7960	0.7668	0.1000	241	250	-3.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Lab Sample ID: CCVIS 480-151714/3 Calibration Date: 11/13/2013 10:41

Instrument ID: HP5973F Calib Start Date: 11/07/2013 01:22

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 11/07/2013 03:57

Lab File ID: F3546.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene	Ave	2.057	1.672	0.4000	40.6	50.0	-18.7	20.0
Ethyl methacrylate	Ave	0.9306	0.8413		45.2	50.0	-9.6	20.0
trans-1,3-Dichloropropene	Ave	1.010	0.9502	0.1000	47.0	50.0	-6.0	20.0
1,1,2-Trichloroethane	Ave	0.4896	0.4690	0.1000	47.9	50.0	-4.2	20.0
Tetrachloroethene	Ave	0.7927	0.7182	0.2000	45.3	50.0	-9.4	20.0
1,3-Dichloropropane	Ave	1.044	1.011		48.4	50.0	-3.2	20.0
2-Hexanone	Ave	0.5755	0.5556	0.1000	241	250	-3.5	20.0
Dibromochloromethane	Ave	0.5961	0.5799	0.1000	48.6	50.0	-2.7	20.0
1,2-Dibromoethane	Ave	0.5995	0.5684		47.4	50.0	-5.2	20.0
Chlorobenzene	Ave	1.952	1.828	0.5000	46.8	50.0	-6.3	20.0
Ethylbenzene	Ave	3.595	3.160	0.1000	43.9	50.0	-12.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6233	0.5901		47.3	50.0	-5.3	20.0
m,p-Xylene	Ave	1.435	1.218	0.1000	84.8	100	-15.2	20.0
o-Xylene	Ave	1.337	1.169	0.3000	43.7	50.0	-12.5	20.0
Styrene	Ave	2.137	1.992	0.3000	46.6	50.0	-6.8	50.0
Bromoform	Lin1		0.3499	0.1000	41.3	50.0	-17.3	20.0
Isopropylbenzene	Ave	3.551	3.240	0.1000	45.6	50.0	-8.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8564	0.8321	0.3000	48.6	50.0	-2.8	20.0
Bromobenzene	Ave	0.8970	0.8141		45.4	50.0	-9.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2072	0.2041		246	250	-1.5	20.0
N-Propylbenzene	Ave	4.203	3.825		45.5	50.0	-9.0	20.0
1,2,3-Trichloropropane	Ave	0.2493	0.2451		49.2	50.0	-1.7	20.0
2-Chlorotoluene	Ave	0.8399	0.7650		45.5	50.0	-8.9	20.0
1,3,5-Trimethylbenzene	Ave	3.036	2.724		44.9	50.0	-10.3	20.0
4-Chlorotoluene	Ave	0.8774	0.8107		46.2	50.0	-7.6	20.0
tert-Butylbenzene	Ave	0.6615	0.6071		45.9	50.0	-8.2	50.0
1,2,4-Trimethylbenzene	Ave	3.124	2.681		42.9	50.0	-14.2	20.0
sec-Butylbenzene	Ave	3.821	3.498		45.8	50.0	-8.4	20.0
4-Isopropyltoluene	Ave	3.186	2.926		45.9	50.0	-8.2	20.0
1,3-Dichlorobenzene	Ave	1.740	1.611	0.6000	46.3	50.0	-7.4	20.0
1,4-Dichlorobenzene	Ave	1.743	1.618	0.5000	46.4	50.0	-7.2	20.0
n-Butylbenzene	Ave	2.900	2.705		46.6	50.0	-6.7	20.0
1,2-Dichlorobenzene	Ave	1.612	1.490	0.4000	46.2	50.0	-7.6	20.0
1,2-Dibromo-3-Chloropropane	Lin1		0.1320	0.0500	43.0	50.0	-13.9	20.0
1,2,4-Trichlorobenzene	Ave	0.9709	0.9161	0.2000	47.2	50.0	-5.6	20.0
Hexachlorobutadiene	Ave	0.5529	0.5286		47.8	50.0	-4.4	20.0
Naphthalene	Ave	2.563	2.215		43.2	50.0	-13.6	20.0
1,2,3-Trichlorobenzene	Ave	0.8732	0.8263		47.3	50.0	-5.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1615	0.1720		53.2	50.0	6.5	20.0
Toluene-d8 (Surr)	Ave	2.252	2.110		46.8	50.0	-6.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6768	0.6685		49.4	50.0	-1.2	20.0

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F3530.D

Lab ID: 480-49751-39 MS Client ID: CS-3 MS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1-Dichloroethane	67.9	6.4 U	46.4	68	73-126	F
1,1-Dichloroethene	67.9	6.4 U	32.9	49	59-125	F
1,2,4-Trimethylbenzene	67.9	6.4 U	30.8	45	74-120	F
1,2-Dichlorobenzene	67.9	6.4 U	28.9	43	75-120	F
1,2-Dichloroethane	67.9	6.4 U	47.2	70	77-122	F
Benzene	67.9	6.4 U	43.1	63	79-127	F
Chlorobenzene	67.9	6.4 U	36.8	54	76-124	F
cis-1,2-Dichloroethene	67.9	6.4 U	44.7	66	81-117	F
Ethylbenzene	67.9	6.4 U	33.2	49	80-120	F
Methyl tert-butyl ether	67.9	6.4 U	51.2	75	63-125	
Tetrachloroethene	67.9	6.4 U	29.3	43	74-122	F
Toluene	67.9	6.4 U	35.2	52	74-128	F
trans-1,2-Dichloroethene	67.9	6.4 U	38.7	57	78-126	F
Trichloroethene	67.9	6.4 U	36.6	54	77-129	F

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F3531.D

Lab ID: 480-49751-39 MSD Client ID: CS-3 MSD MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethane	74.8	47.3	63	2	30	73-126	F
1,1-Dichloroethene	74.8	32.0	43	3	30	59-125	F
1,2,4-Trimethylbenzene	74.8	31.9	43	4	30	74-120	F
1,2-Dichlorobenzene	74.8	31.4	42	9	30	75-120	F
1,2-Dichloroethane	74.8	51.0	68	8	30	77-122	F
Benzene	74.8	43.6	58	1	30	79-127	F
Chlorobenzene	74.8	38.5	51	4	30	76-124	F
cis-1,2-Dichloroethene	74.8	45.3	61	1	30	81-117	F
Ethylbenzene	74.8	33.6	45	1	30	80-120	F
Methyl tert-butyl ether	74.8	56.1	75	9	30	63-125	
Tetrachloroethene	74.8	28.8	39	2	30	74-122	F
Toluene	74.8	35.7	48	1	30	74-128	F
trans-1,2-Dichloroethene	74.8	38.1	51	2	30	78-126	F
Trichloroethene	74.8	37.0	49	1	30	77-129	F

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F3531.D

Lab ID: 480-49751-39 MSD Client ID: CS-3 MSD MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	74.8	35.6	48	3	30	77-121	F
1,1,2,2-Tetrachloroethane	74.8	43.4	58	9	30	80-120	F
1,1,2-Trichloro-1,2,2-trifluoroethane	74.8	26.7	36	5	30	60-140	F
1,1,2-Trichloroethane	74.8	47.8	64	9	30	78-122	F
1,1-Dichloroethane	74.8	47.3	63	2	30	73-126	F
1,1-Dichloroethene	74.8	32.0	43	3	30	59-125	F
1,2,4-Trichlorobenzene	74.8	18.2	24	7	30	64-120	F
1,2,4-Trimethylbenzene	74.8	31.9	43	4	30	74-120	F
1,2-Dibromo-3-Chloropropane	74.8	29.0	39	13	30	63-124	F
1,2-Dibromoethane	74.8	42.7	57	9	30	78-120	F
1,2-Dichlorobenzene	74.8	31.4	42	9	30	75-120	F
1,2-Dichloroethane	74.8	51.0	68	8	30	77-122	F
1,2-Dichloropropane	74.8	50.7	68	7	30	75-124	F
1,3,5-Trimethylbenzene	74.8	33.1	44	4	30	74-120	F
1,3-Dichlorobenzene	74.8	31.0	41	6	30	74-120	F
1,4-Dichlorobenzene	74.8	30.2	40	2	30	73-120	F
2-Butanone (MEK)	374	219	58	9	30	70-134	F
2-Hexanone	374	211	56	9	30	59-130	F
4-Methyl-2-pentanone (MIBK)	374	236	63	10	30	65-133	F
Acetone	374	223	60	9	30	61-137	F
Benzene	74.8	43.6	58	1	30	79-127	F
Bromodichloromethane	74.8	47.5	63	5	30	80-122	F
Bromoform	74.8	31.8	43	9	30	68-126	F
Bromomethane	74.8	57.6	77	0	30	37-149	
Carbon disulfide	74.8	29.9	40	3	30	64-131	F
Carbon tetrachloride	74.8	28.3	38	3	30	75-135	F
Chlorobenzene	74.8	38.5	51	4	30	76-124	F
Chloroethane	74.8	50.5	67	2	30	69-135	F
Chloroform	74.8	48.6	65	2	30	80-118	F
Chloromethane	74.8	45.1	60	1	30	63-127	F
cis-1,2-Dichloroethene	74.8	45.3	61	1	30	81-117	F
cis-1,3-Dichloropropene	74.8	43.4	58	5	30	82-120	F
Cyclohexane	74.8	22.3	30	8	30	70-130	F
Dibromochloromethane	74.8	43.0	58	8	30	76-125	F
Dichlorodifluoromethane	74.8	20.7	28	13	30	57-142	F
Ethylbenzene	74.8	33.6	45	1	30	80-120	F
Isopropylbenzene	74.8	33.2	44	2	30	72-120	F
Methyl acetate	74.8	100	134	7	30	60-140	
Methyl tert-butyl ether	74.8	56.1	75	9	30	63-125	
Methylcyclohexane	74.8	18.0	24	8	30	60-140	F
Methylene Chloride	74.8	50.8	68	5	30	61-127	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F3531.D

Lab ID: 480-49751-39 MSD Client ID: CS-3 MSD MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
n-Butylbenzene	74.8	20.2	27	1	30	70-120	F
N-Propylbenzene	74.8	31.0	41	2	30	70-130	F
sec-Butylbenzene	74.8	24.7	33	1	30	74-120	F
Styrene	74.8	35.8	48	4	30	80-120	F
tert-Butylbenzene	74.8	29.7	40	2	30	73-120	F
Tetrachloroethene	74.8	28.8	39	2	30	74-122	F
Toluene	74.8	35.7	48	1	30	74-128	F
trans-1,2-Dichloroethene	74.8	38.1	51	2	30	78-126	F
trans-1,3-Dichloropropene	74.8	40.2	54	5	30	73-123	F
Trichloroethene	74.8	37.0	49	1	30	77-129	F
Trichlorofluoromethane	74.8	30.8	41	7	30	65-146	F
Vinyl chloride	74.8	34.8	47	4	30	61-133	F
Xylenes, Total	225	102	45	3	30	80-120	F

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F3530.D

Lab ID: 480-49751-39 MS Client ID: CS-3 MS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	67.9	6.4 U	36.5	54	77-121	F
1,1,2,2-Tetrachloroethane	67.9	6.4 U	39.4	58	80-120	F
1,1,2-Trichloro-1,2,2-trifluoroethane	67.9	6.4 U	28.1	41	60-140	F
1,1,2-Trichloroethane	67.9	6.4 U	43.7	64	78-122	F
1,1-Dichloroethane	67.9	6.4 U	46.4	68	73-126	F
1,1-Dichloroethene	67.9	6.4 U	32.9	49	59-125	F
1,2,4-Trichlorobenzene	67.9	6.4 U	16.9	25	64-120	F
1,2,4-Trimethylbenzene	67.9	6.4 U	30.8	45	74-120	F
1,2-Dibromo-3-Chloropropane	67.9	6.4 U	25.6	38	63-124	F
1,2-Dibromoethane	67.9	6.4 U	39.1	58	78-120	F
1,2-Dichlorobenzene	67.9	6.4 U	28.9	43	75-120	F
1,2-Dichloroethane	67.9	6.4 U	47.2	70	77-122	F
1,2-Dichloropropane	67.9	6.4 U	47.3	70	75-124	F
1,3,5-Trimethylbenzene	67.9	6.4 U	31.7	47	74-120	F
1,3-Dichlorobenzene	67.9	6.4 U	29.2	43	74-120	F
1,4-Dichlorobenzene	67.9	6.4 U	29.7	44	73-120	F
2-Butanone (MEK)	339	32 U	200	59	70-134	F
2-Hexanone	339	32 U	192	57	59-130	F
4-Methyl-2-pentanone (MIBK)	339	32 U	213	63	65-133	F
Acetone	339	32 U	203	60	61-137	F
Benzene	67.9	6.4 U	43.1	63	79-127	F
Bromodichloromethane	67.9	6.4 U	45.4	67	80-122	F
Bromoform	67.9	6.4 U	29.2	43	68-126	F
Bromomethane	67.9	6.4 U	57.8	85	37-149	
Carbon disulfide	67.9	6.4 U	31.0	46	64-131	F
Carbon tetrachloride	67.9	6.4 U	29.1	43	75-135	F
Chlorobenzene	67.9	6.4 U	36.8	54	76-124	F
Chloroethane	67.9	6.4 U	51.5	76	69-135	
Chloroform	67.9	6.4 U	47.8	70	80-118	F
Chloromethane	67.9	6.4 U	45.5	67	63-127	
cis-1,2-Dichloroethene	67.9	6.4 U	44.7	66	81-117	F
cis-1,3-Dichloropropene	67.9	6.4 U	41.3	61	82-120	F
Cyclohexane	67.9	6.4 U	24.3	36	70-130	F
Dibromochloromethane	67.9	6.4 U	39.6	58	76-125	F
Dichlorodifluoromethane	67.9	6.4 U	23.5	35	57-142	F
Ethylbenzene	67.9	6.4 U	33.2	49	80-120	F
Isopropylbenzene	67.9	6.4 U	32.4	48	72-120	F
Methyl acetate	67.9	6.4 U	92.9	137	60-140	
Methyl tert-butyl ether	67.9	6.4 U	51.2	75	63-125	
Methylcyclohexane	67.9	6.4 U	19.4	29	60-140	F
Methylene Chloride	67.9	6.4 U	48.4	71	61-127	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F3530.D

Lab ID: 480-49751-39 MS Client ID: CS-3 MS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
n-Butylbenzene	67.9	6.4 U	20.4	30	70-120	F
N-Propylbenzene	67.9	6.4 U	30.3	45	70-130	F
sec-Butylbenzene	67.9	6.4 U	24.5	36	74-120	F
Styrene	67.9	6.4 U	34.3	51	80-120	F
tert-Butylbenzene	67.9	6.4 U	29.2	43	73-120	F
Tetrachloroethene	67.9	6.4 U	29.3	43	74-122	F
Toluene	67.9	6.4 U	35.2	52	74-128	F
trans-1,2-Dichloroethene	67.9	6.4 U	38.7	57	78-126	F
trans-1,3-Dichloropropene	67.9	6.4 U	38.1	56	73-123	F
Trichloroethene	67.9	6.4 U	36.6	54	77-129	F
Trichlorofluoromethane	67.9	6.4 U	33.2	49	65-146	F
Vinyl chloride	67.9	6.4 U	36.2	53	61-133	F
Xylenes, Total	204	13 U	98.8	49	80-120	F

Column to be used to flag recovery and RPD values

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-151640/2-A

Matrix: Solid | Lab File ID: U2055.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.41(g) | Date Analyzed: 11/16/2013 07:05

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

Injection Volume: 1(uL) | Level: (low/med) Low

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

Analysis Batch No.: 152436 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-95-4	2,4,5-Trichlorophenol	1380		170	36
88-06-2	2,4,6-Trichlorophenol	1400		170	11
120-83-2	2,4-Dichlorophenol	1390		170	8.7
105-67-9	2,4-Dimethylphenol	1320		170	45
51-28-5	2,4-Dinitrophenol	2840		330	58
121-14-2	2,4-Dinitrotoluene	1440		170	26
606-20-2	2,6-Dinitrotoluene	1340		170	41
91-58-7	2-Chloronaphthalene	1320		170	11
95-57-8	2-Chlorophenol	1220		170	8.5
91-57-6	2-Methylnaphthalene	1330		170	2.0
95-48-7	2-Methylphenol	1210		170	5.1
88-74-4	2-Nitroaniline	1490		330	53
88-75-5	2-Nitrophenol	1270		170	7.6
99-09-2	3-Nitroaniline	1100		330	38
534-52-1	4,6-Dinitro-2-methylphenol	2490		330	58
101-55-3	4-Bromophenyl phenyl ether	1400		170	53
59-50-7	4-Chloro-3-methylphenol	1530		170	6.9
106-47-8	4-Chloroaniline	1060		170	49
7005-72-3	4-Chlorophenyl phenyl ether	1440		170	3.5
106-44-5	4-Methylphenol	1290		330	9.3
100-01-6	4-Nitroaniline	1060		330	19
100-02-7	4-Nitrophenol	4050		330	40
83-32-9	Acenaphthene	1350		170	2.0
208-96-8	Acenaphthylene	1300		170	1.4
98-86-2	Acetophenone	1070	65.2%	170	8.5
120-12-7	Anthracene	1350		170	4.3
100-52-7	Benzaldehyde	1320		170	18
56-55-3	Benzo(a)anthracene	1350		170	2.9
50-32-8	Benzo(a)pyrene	1370		170	4.0
205-99-2	Benzo(b)fluoranthene	1500		170	3.2
191-24-2	Benzo(g,h,i)perylene	1290		170	2.0
207-08-9	Benzo(k)fluoranthene	1370		170	1.8
92-52-4	Biphenyl	1330		170	10
108-60-1	bis (2-chloroisopropyl) ether	1020		170	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-151640/2-A

Matrix: Solid | Lab File ID: U2055.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.41(g) | Date Analyzed: 11/16/2013 07:05

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

Injection Volume: 1(uL) | Level: (low/med) Low

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

Analysis Batch No.: 152436 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	1200		170	9.1
111-44-4	Bis(2-chloroethyl)ether	1110		170	14
117-81-7	Bis(2-ethylhexyl) phthalate	1430		170	54
85-68-7	Butyl benzyl phthalate	1350		170	45
86-74-8	Carbazole	1240		170	1.9
218-01-9	Chrysene	1320		170	1.7
53-70-3	Dibenz(a,h)anthracene	1370		170	2.0
132-64-9	Dibenzofuran	1370		170	1.7
84-66-2	Diethyl phthalate	1540		170	5.0
131-11-3	Dimethyl phthalate	1470		170	4.3
84-74-2	Di-n-butyl phthalate	1480		170	58
117-84-0	Di-n-octyl phthalate	1400		170	3.9
206-44-0	Fluoranthene	1450		170	2.4
86-73-7	Fluorene	1390		170	3.8
118-74-1	Hexachlorobenzene	1450		170	8.3
87-68-3	Hexachlorobutadiene	1440		170	8.5
77-47-4	Hexachlorocyclopentadiene	1180		170	50
67-72-1	Hexachloroethane	1250		170	13
193-39-5	Indeno(1,2,3-cd)pyrene	1360		170	4.6
78-59-1	Isophorone	1240		170	8.3
91-20-3	Naphthalene	1250		170	2.8
98-95-3	Nitrobenzene	1310		170	7.4
621-64-7	N-Nitrosodi-n-propylamine	1290		170	13
86-30-6	N-Nitrosodiphenylamine	1610		170	9.1
87-86-5	Pentachlorophenol	2310		330	57
85-01-8	Phenanthrene	1370		170	3.5
108-95-2	Phenol	1270		170	18
129-00-0	Pyrene	1230		170	1.1

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-151640/2-A

Matrix: Solid | Lab File ID: U2055.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 11/13/2013 07:30

Sample wt/vol: +30.41(g) | Date Analyzed: 11/16/2013 07:05

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

Injection Volume: 1(uL) | Level: (low/med) Low

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

Analysis Batch No.: 152436 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	90		39-146
321-60-8	2-Fluorobiphenyl	84		37-120
367-12-4	2-Fluorophenol	78		18-120
4165-60-0	Nitrobenzene-d5	85		34-132
4165-62-2	Phenol-d5	78		11-120
1718-51-0	p-Terphenyl-d14	84		65-153

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Lab Sample ID: CCVIS 480-152545/3 Calibration Date: 11/16/2013 12:15

Instrument ID: HP5973U Calib Start Date: 11/09/2013 11:37

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 11/09/2013 13:38

Lab File ID: U2068.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6491	0.5463	0.0100	42100	50000	-15.8	50.0
N-Nitrosodimethylamine	Ave	0.7428	0.9133	0.0100	61500	50000	23.0	25.0
Pyridine	Ave	1.218	1.122	0.0100	46100	50000	-7.9	50.0
Phenol	Ave	1.860	1.855	0.8000	49900	50000	-0.3	20.0
Aniline	Ave	2.320	2.228	0.0100	48000	50000	-4.0	50.0
Bis(2-chloroethyl)ether	Ave	1.440	1.377	0.7000	47800	50000	-4.4	20.0
2-Chlorophenol	Ave	1.455	1.479	0.8000	50800	50000	1.6	20.0
1,3-Dichlorobenzene	Ave	1.557	1.585	0.0100	50900	50000	1.8	20.0
1,4-Dichlorobenzene	Ave	1.595	1.629	0.0100	51100	50000	2.1	20.0
Benzyl alcohol	Ave	0.9629	0.9532	0.0100	49500	50000	-1.0	50.0
1,2-Dichlorobenzene	Ave	1.514	1.546	0.0100	51100	50000	2.1	20.0
2-Methylphenol	Ave	1.339	1.338	0.7000	50000	50000	-0.1	20.0
bis (2-chloroisopropyl) ether	Ave	2.193	1.894	0.0100	43200	50000	-13.6	20.0
Acetophenone	Ave	1.944	2.164	0.0100	55700	50000	11.4	40.0
N-Nitrosodi-n-propylamine	Ave	1.130	1.233	0.5000	54600	50000	9.1	20.0
4-Methylphenol	Ave	1.359	1.404	0.6000	51600	50000	3.3	20.0
Hexachloroethane	Ave	0.5802	0.6547	0.3000	56400	50000	12.8	20.0
Nitrobenzene	Ave	0.4089	0.4482	0.2000	54800	50000	9.6	20.0
Isophorone	Ave	0.7156	0.7535	0.4000	52700	50000	5.3	20.0
2-Nitrophenol	Ave	0.1764	0.1849	0.1000	52400	50000	4.8	20.0
2,4-Dimethylphenol	Ave	0.3689	0.4191	0.2000	56800	50000	13.6	20.0
Bis(2-chloroethoxy)methane	Ave	0.4147	0.3981	0.3000	48000	50000	-4.0	20.0
2,4-Dichlorophenol	Ave	0.2831	0.2941	0.2000	52000	50000	3.9	20.0
1,2,4-Trichlorobenzene	Ave	0.3221	0.3352	0.0100	52000	50000	4.1	20.0
Naphthalene	Ave	1.048	1.065	0.7000	50800	50000	1.6	20.0
4-Chloroaniline	Ave	0.4498	0.4595	0.0100	51100	50000	2.2	20.0
Hexachlorobutadiene	Ave	0.1819	0.2195	0.0100	60300	50000	20.7*	20.0
4-Chloro-3-methylphenol	Ave	0.3121	0.3637	0.2000	58300	50000	16.5	20.0
2-Methylnaphthalene	Ave	0.6856	0.7255	0.4000	52900	50000	5.8	20.0
Hexachlorocyclopentadiene	Ave	0.3121	0.2806	0.0500	45000	50000	-10.1	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5549	0.5910	0.0100	53200	50000	6.5	40.0
2,4,6-Trichlorophenol	Ave	0.3685	0.3785	0.2000	51400	50000	2.7	20.0
2,4,5-Trichlorophenol	Ave	0.4026	0.4056	0.2000	50400	50000	0.7	20.0
Biphenyl	Ave	1.469	1.501	0.0100	51100	50000	2.1	40.0
2-Chloronaphthalene	Ave	1.113	1.130	0.8000	50700	50000	1.5	25.0
2-Nitroaniline	Ave	0.3794	0.4179	0.0100	55100	50000	10.2	20.0
Dimethyl phthalate	Ave	1.286	1.395	0.0100	54200	50000	8.4	20.0
1,3-Dinitrobenzene	Lin1		0.1294	0.0100	52300	50000	4.5	50.0
2,6-Dinitrotoluene	Ave	0.3013	0.3005	0.2000	49900	50000	-0.3	25.0
Acenaphthylene	Ave	1.826	1.840	0.9000	50400	50000	0.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Lab Sample ID: CCVIS 480-152545/3 Calibration Date: 11/16/2013 12:15

Instrument ID: HP5973U Calib Start Date: 11/09/2013 11:37

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 11/09/2013 13:38

Lab File ID: U2068.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3-Nitroaniline	Ave	0.3502	0.3449	0.0100	49200	50000	-1.5	20.0
Acenaphthene	Ave	1.190	1.226	0.0100	51500	50000	3.0	20.0
2,4-Dinitrophenol	Qua		0.1468	0.0100	100000	100000	0.4	20.0
4-Nitrophenol	Ave	0.1962	0.2793	0.0100	142000	100000	42.4*	20.0
Dibenzofuran	Ave	1.603	1.653	0.8000	51600	50000	3.1	20.0
2,4-Dinitrotoluene	Ave	0.3868	0.4107	0.0100	53100	50000	6.2	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3263	0.3394	0.0100	52000	50000	4.0	40.0
Diethyl phthalate	Ave	1.294	1.429	0.0100	55200	50000	10.4	20.0
Fluorene	Ave	1.336	1.398	0.9000	52300	50000	4.7	20.0
4-Chlorophenyl phenyl ether	Ave	0.6673	0.7162	0.4000	53700	50000	7.3	20.0
4-Nitroaniline	Ave	0.3495	0.3405	0.0100	48700	50000	-2.6	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1265	0.0100	93800	100000	-6.2	20.0
1,2-Diphenylhydrazine	Ave	1.478	1.575	0.0100	53300	50000	6.6	25.0
trans-Azobenzene	Ave	0.8138	0.8534	0.0100	52400	50000	4.9	40.0
4-Bromophenyl phenyl ether	Ave	0.2261	0.2435	0.1000	53800	50000	7.7	20.0
Hexachlorobenzene	Ave	0.2585	0.2792	0.1000	54000	50000	8.0	20.0
Pentachlorophenol	Ave	0.1455	0.1389	0.0500	95500	100000	-4.5	20.0
Phenanthrene	Ave	1.138	1.142	0.7000	50200	50000	0.4	20.0
Anthracene	Ave	1.164	1.185	0.7000	50900	50000	1.7	20.0
Carbazole	Ave	1.038	1.031	0.0100	49700	50000	-0.7	20.0
Di-n-butyl phthalate	Ave	1.174	1.287	0.0100	54800	50000	9.6	20.0
Fluoranthene	Ave	1.227	1.324	0.6000	53900	50000	7.9	20.0
Pyrene	Ave	1.086	0.9942	0.6000	45800	50000	-8.5	20.0
Butyl benzyl phthalate	Ave	0.4778	0.4844	0.0100	50700	50000	1.4	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6431	0.6907	0.0100	53700	50000	7.4	20.0
Benzo(a)anthracene	Ave	1.046	1.064	0.8000	50900	50000	1.7	20.0
Chrysene	Ave	1.111	1.010	0.7000	45500	50000	-9.0	20.0
Di-n-octyl phthalate	Ave	1.136	1.138	0.0100	50100	50000	0.2	20.0
Benzo(b)fluoranthene	Ave	1.053	1.081	0.7000	51300	50000	2.7	20.0
Benzo(k)fluoranthene	Ave	1.201	1.188	0.7000	49500	50000	-1.1	20.0
Benzo(a)pyrene	Ave	1.035	1.044	0.7000	50400	50000	0.9	20.0
Indeno(1,2,3-cd)pyrene	Ave	1.350	1.259	0.5000	46600	50000	-6.8	20.0
Dibenz(a,h)anthracene	Ave	1.143	1.107	0.4000	48400	50000	-3.2	20.0
Benzo(g,h,i)perylene	Ave	1.128	0.9297	0.5000	41200	50000	-17.6	20.0
2-Fluorophenol	Ave	1.391	1.354	0.0100	48700	50000	-2.7	25.0
Phenol-d5	Ave	1.749	1.725	0.0100	49300	50000	-1.4	25.0
Nitrobenzene-d5	Ave	0.3960	0.4373	0.0100	55200	50000	10.4	25.0
2-Fluorobiphenyl	Ave	1.320	1.338	0.0100	50700	50000	1.4	25.0
2,4,6-Tribromophenol	Ave	0.1220	0.1373	0.0100	56300	50000	12.6	25.0
p-Terphenyl-d14	Ave	0.8091	0.7843	0.0100	48500	50000	-3.1	25.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Lab Sample ID: CCVIS 480-152748/3 Calibration Date: 11/18/2013 14:04

Instrument ID: HP5973U Calib Start Date: 11/09/2013 11:37

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 11/09/2013 13:38

Lab File ID: U2113.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6491	0.5838	0.0100	45000	50000	-10.1	50.0
N-Nitrosodimethylamine	Ave	0.7428	0.8855	0.0100	59600	50000	19.2	25.0
Pyridine	Ave	1.218	1.181	0.0100	48500	50000	-3.0	50.0
Phenol	Ave	1.860	1.899	0.8000	51000	50000	2.1	20.0
Aniline	Ave	2.320	2.174	0.0100	46800	50000	-6.3	50.0
Bis(2-chloroethyl)ether	Ave	1.440	1.346	0.7000	46700	50000	-6.5	20.0
2-Chlorophenol	Ave	1.455	1.450	0.8000	49800	50000	-0.4	20.0
1,3-Dichlorobenzene	Ave	1.557	1.538	0.0100	49400	50000	-1.2	20.0
1,4-Dichlorobenzene	Ave	1.595	1.588	0.0100	49800	50000	-0.4	20.0
Benzyl alcohol	Ave	0.9629	0.9257	0.0100	48100	50000	-3.9	50.0
1,2-Dichlorobenzene	Ave	1.514	1.481	0.0100	48900	50000	-2.2	20.0
2-Methylphenol	Ave	1.339	1.294	0.7000	48300	50000	-3.4	20.0
bis (2-chloroisopropyl) ether	Ave	2.193	1.898	0.0100	43300	50000	-13.4	20.0
Acetophenone	Ave	1.944	2.063	0.0100	53100	50000	6.1	40.0
N-Nitrosodi-n-propylamine	Ave	1.130	1.167	0.5000	51600	50000	3.3	20.0
4-Methylphenol	Ave	1.359	1.375	0.6000	50600	50000	1.2	20.0
Hexachloroethane	Ave	0.5802	0.6308	0.3000	54400	50000	8.7	20.0
Nitrobenzene	Ave	0.4089	0.4324	0.2000	52900	50000	5.7	20.0
Isophorone	Ave	0.7156	0.7143	0.4000	49900	50000	-0.2	20.0
2-Nitrophenol	Ave	0.1764	0.1828	0.1000	51800	50000	3.6	20.0
2,4-Dimethylphenol	Ave	0.3689	0.4046	0.2000	54800	50000	9.7	20.0
Bis(2-chloroethoxy)methane	Ave	0.4147	0.3904	0.3000	47100	50000	-5.9	20.0
2,4-Dichlorophenol	Ave	0.2831	0.2867	0.2000	50600	50000	1.3	20.0
1,2,4-Trichlorobenzene	Ave	0.3221	0.3258	0.0100	50600	50000	1.2	20.0
Naphthalene	Ave	1.048	1.036	0.7000	49500	50000	-1.1	20.0
4-Chloroaniline	Ave	0.4498	0.4442	0.0100	49400	50000	-1.2	20.0
Hexachlorobutadiene	Ave	0.1819	0.2112	0.0100	58000	50000	16.1	20.0
4-Chloro-3-methylphenol	Ave	0.3121	0.3473	0.2000	55600	50000	11.3	20.0
2-Methylnaphthalene	Ave	0.6856	0.6937	0.4000	50600	50000	1.2	20.0
Hexachlorocyclopentadiene	Ave	0.3121	0.2869	0.0500	46000	50000	-8.1	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5549	0.5818	0.0100	52400	50000	4.8	40.0
2,4,6-Trichlorophenol	Ave	0.3685	0.3727	0.2000	50600	50000	1.1	20.0
2,4,5-Trichlorophenol	Ave	0.4026	0.4011	0.2000	49800	50000	-0.4	20.0
Biphenyl	Ave	1.469	1.469	0.0100	50000	50000	-0.0	40.0
2-Chloronaphthalene	Ave	1.113	1.122	0.8000	50400	50000	0.8	25.0
2-Nitroaniline	Ave	0.3794	0.4113	0.0100	54200	50000	8.4	20.0
Dimethyl phthalate	Ave	1.286	1.327	0.0100	51600	50000	3.2	20.0
1,3-Dinitrobenzene	Lin1		0.1156	0.0100	47000	50000	-6.1	50.0
2,6-Dinitrotoluene	Ave	0.3013	0.2968	0.2000	49300	50000	-1.5	25.0
Acenaphthylene	Ave	1.826	1.793	0.9000	49100	50000	-1.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Lab Sample ID: CCVIS 480-152748/3 Calibration Date: 11/18/2013 14:04

Instrument ID: HP5973U Calib Start Date: 11/09/2013 11:37

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 11/09/2013 13:38

Lab File ID: U2113.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3-Nitroaniline	Ave	0.3502	0.3411	0.0100	48700	50000	-2.6	20.0
Acenaphthene	Ave	1.190	1.183	0.0100	49700	50000	-0.6	20.0
2,4-Dinitrophenol	Qua		0.1530	0.0100	104000	100000	3.9	20.0
4-Nitrophenol	Ave	0.1962	0.2618	0.0100	133000	100000	33.4*	20.0
Dibenzofuran	Ave	1.603	1.598	0.8000	49800	50000	-0.3	20.0
2,4-Dinitrotoluene	Ave	0.3868	0.4053	0.0100	52400	50000	4.8	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3263	0.3252	0.0100	49800	50000	-0.3	40.0
Diethyl phthalate	Ave	1.294	1.377	0.0100	53200	50000	6.4	20.0
Fluorene	Ave	1.336	1.340	0.9000	50100	50000	0.3	20.0
4-Chlorophenyl phenyl ether	Ave	0.6673	0.6925	0.4000	51900	50000	3.8	20.0
4-Nitroaniline	Ave	0.3495	0.3233	0.0100	46200	50000	-7.5	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1242	0.0100	92200	100000	-7.8	20.0
1,2-Diphenylhydrazine	Ave	1.478	1.507	0.0100	51000	50000	2.0	25.0
trans-Azobenzene	Ave	0.8138	0.8107	0.0100	49800	50000	-0.4	40.0
4-Bromophenyl phenyl ether	Ave	0.2261	0.2294	0.1000	50700	50000	1.5	20.0
Hexachlorobenzene	Ave	0.2585	0.2644	0.1000	51100	50000	2.3	20.0
Pentachlorophenol	Ave	0.1455	0.1376	0.0500	94600	100000	-5.4	20.0
Phenanthrene	Ave	1.138	1.110	0.7000	48800	50000	-2.5	20.0
Anthracene	Ave	1.164	1.151	0.7000	49400	50000	-1.1	20.0
Carbazole	Ave	1.038	0.9852	0.0100	47500	50000	-5.1	20.0
Di-n-butyl phthalate	Ave	1.174	1.196	0.0100	50900	50000	1.9	20.0
Fluoranthene	Ave	1.227	1.250	0.6000	50900	50000	1.9	20.0
Pyrene	Ave	1.086	0.9536	0.6000	43900	50000	-12.2	20.0
Butyl benzyl phthalate	Ave	0.4778	0.4553	0.0100	47600	50000	-4.7	20.0
Benzo(a)anthracene	Ave	1.046	1.014	0.8000	48400	50000	-3.1	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6431	0.6564	0.0100	51000	50000	2.1	20.0
Chrysene	Ave	1.111	1.016	0.7000	45800	50000	-8.5	20.0
Di-n-octyl phthalate	Ave	1.136	1.098	0.0100	48300	50000	-3.4	20.0
Benzo(b)fluoranthene	Ave	1.053	1.090	0.7000	51800	50000	3.5	20.0
Benzo(k)fluoranthene	Ave	1.201	1.144	0.7000	47600	50000	-4.8	20.0
Benzo(a)pyrene	Ave	1.035	1.025	0.7000	49500	50000	-1.0	20.0
Indeno(1,2,3-cd)pyrene	Ave	1.350	1.305	0.5000	48300	50000	-3.3	20.0
Dibenz(a,h)anthracene	Ave	1.143	1.144	0.4000	50000	50000	0.0	20.0
Benzo(g,h,i)perylene	Ave	1.128	1.005	0.5000	44500	50000	-10.9	20.0
2-Fluorophenol	Ave	1.391	1.335	0.0100	48000	50000	-4.0	25.0
Phenol-d5	Ave	1.749	1.671	0.0100	47800	50000	-4.4	25.0
Nitrobenzene-d5	Ave	0.3960	0.4227	0.0100	53400	50000	6.8	25.0
2-Fluorobiphenyl	Ave	1.320	1.321	0.0100	50100	50000	0.1	25.0
2,4,6-Tribromophenol	Ave	0.1220	0.1293	0.0100	53000	50000	6.0	25.0
p-Terphenyl-d14	Ave	0.8091	0.7425	0.0100	45900	50000	-8.2	25.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Lab Sample ID: CCV 480-152748/4 Calibration Date: 11/18/2013 14:28

Instrument ID: HP5973U Calib Start Date: 11/13/2013 09:46

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 11/13/2013 11:44

Lab File ID: U2114.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Qua		1.305	0.0100	62100	50000	24.3	40.0
Benzoic acid	Lin1		0.2668	0.0100	193000	200000	-3.6	25.0
Caprolactam	Ave	0.1086	0.1176	0.0100	54200	50000	8.4	40.0
N-Nitrosodiphenylamine	Ave	0.4564	0.4241	0.0100	46500	50000	-7.1	20.0
Atrazine	Ave	0.3828	0.4104	0.0100	53600	50000	7.2	25.0
3,3'-Dichlorobenzidine	Ave	0.3616	0.3990	0.0100	55200	50000	10.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Lab Sample ID: CCVIS 480-152796/3 Calibration Date: 11/19/2013 02:52

Instrument ID: HP5973U Calib Start Date: 11/09/2013 11:37

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 11/09/2013 13:38

Lab File ID: U2144.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6491	0.5480	0.0100	42200	50000	-15.6	50.0
N-Nitrosodimethylamine	Ave	0.7428	0.8827	0.0100	59400	50000	18.8	25.0
Pyridine	Ave	1.218	1.116	0.0100	45800	50000	-8.4	50.0
Phenol	Ave	1.860	1.738	0.8000	46700	50000	-6.6	20.0
Aniline	Ave	2.320	2.062	0.0100	44400	50000	-11.1	50.0
Bis(2-chloroethyl)ether	Ave	1.440	1.258	0.7000	43700	50000	-12.7	20.0
2-Chlorophenol	Ave	1.455	1.378	0.8000	47300	50000	-5.3	20.0
1,3-Dichlorobenzene	Ave	1.557	1.507	0.0100	48400	50000	-3.2	20.0
1,4-Dichlorobenzene	Ave	1.595	1.585	0.0100	49700	50000	-0.6	20.0
Benzyl alcohol	Ave	0.9629	0.8966	0.0100	46600	50000	-6.9	50.0
1,2-Dichlorobenzene	Ave	1.514	1.487	0.0100	49100	50000	-1.7	20.0
2-Methylphenol	Ave	1.339	1.261	0.7000	47100	50000	-5.8	20.0
bis (2-chloroisopropyl) ether	Ave	2.193	1.733	0.0100	39500	50000	-21.0*	20.0
Acetophenone	Ave	1.944	2.047	0.0100	52700	50000	5.3	40.0
N-Nitrosodi-n-propylamine	Ave	1.130	1.148	0.5000	50800	50000	1.6	20.0
4-Methylphenol	Ave	1.359	1.325	0.6000	48700	50000	-2.5	20.0
Hexachloroethane	Ave	0.5802	0.6439	0.3000	55500	50000	11.0	20.0
Nitrobenzene	Ave	0.4089	0.4324	0.2000	52900	50000	5.7	20.0
Isophorone	Ave	0.7156	0.7128	0.4000	49800	50000	-0.4	20.0
2-Nitrophenol	Ave	0.1764	0.1782	0.1000	50500	50000	1.0	20.0
2,4-Dimethylphenol	Ave	0.3689	0.4139	0.2000	56100	50000	12.2	20.0
Bis(2-chloroethoxy)methane	Ave	0.4147	0.3795	0.3000	45800	50000	-8.5	20.0
2,4-Dichlorophenol	Ave	0.2831	0.2847	0.2000	50300	50000	0.6	20.0
1,2,4-Trichlorobenzene	Ave	0.3221	0.3284	0.0100	51000	50000	1.9	20.0
Naphthalene	Ave	1.048	1.030	0.7000	49200	50000	-1.7	20.0
4-Chloroaniline	Ave	0.4498	0.4459	0.0100	49600	50000	-0.9	20.0
Hexachlorobutadiene	Ave	0.1819	0.2181	0.0100	60000	50000	19.9	20.0
4-Chloro-3-methylphenol	Ave	0.3121	0.3490	0.2000	55900	50000	11.8	20.0
2-Methylnaphthalene	Ave	0.6856	0.6970	0.4000	50800	50000	1.7	20.0
Hexachlorocyclopentadiene	Ave	0.3121	0.2944	0.0500	47200	50000	-5.7	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5549	0.5885	0.0100	53000	50000	6.0	40.0
2,4,6-Trichlorophenol	Ave	0.3685	0.3693	0.2000	50100	50000	0.2	20.0
2,4,5-Trichlorophenol	Ave	0.4026	0.3965	0.2000	49200	50000	-1.5	20.0
Biphenyl	Ave	1.469	1.468	0.0100	50000	50000	-0.0	40.0
2-Chloronaphthalene	Ave	1.113	1.112	0.8000	50000	50000	-0.0	25.0
2-Nitroaniline	Ave	0.3794	0.4058	0.0100	53500	50000	7.0	20.0
Dimethyl phthalate	Ave	1.286	1.362	0.0100	53000	50000	5.9	20.0
1,3-Dinitrobenzene	Lin1		0.1174	0.0100	47600	50000	-4.7	50.0
2,6-Dinitrotoluene	Ave	0.3013	0.2838	0.2000	47100	50000	-5.8	25.0
Acenaphthylene	Ave	1.826	1.785	0.9000	48900	50000	-2.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Lab Sample ID: CCVIS 480-152796/3 Calibration Date: 11/19/2013 02:52

Instrument ID: HP5973U Calib Start Date: 11/09/2013 11:37

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 11/09/2013 13:38

Lab File ID: U2144.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3-Nitroaniline	Ave	0.3502	0.3330	0.0100	47600	50000	-4.9	20.0
Acenaphthene	Ave	1.190	1.177	0.0100	49500	50000	-1.1	20.0
2,4-Dinitrophenol	Qua		0.1418	0.0100	97600	100000	-2.4	20.0
4-Nitrophenol	Ave	0.1962	0.2782	0.0100	142000	100000	41.8*	20.0
2,4-Dinitrotoluene	Ave	0.3868	0.4037	0.0100	52200	50000	4.3	20.0
Dibenzofuran	Ave	1.603	1.618	0.8000	50500	50000	0.9	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3263	0.3249	0.0100	49800	50000	-0.4	40.0
Diethyl phthalate	Ave	1.294	1.437	0.0100	55500	50000	11.1	20.0
Fluorene	Ave	1.336	1.368	0.9000	51200	50000	2.4	20.0
4-Chlorophenyl phenyl ether	Ave	0.6673	0.6995	0.4000	52400	50000	4.8	20.0
4-Nitroaniline	Ave	0.3495	0.3197	0.0100	45700	50000	-8.5	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1243	0.0100	92300	100000	-7.7	20.0
1,2-Diphenylhydrazine	Ave	1.478	1.533	0.0100	51900	50000	3.8	25.0
trans-Azobenzene	Ave	0.8138	0.8253	0.0100	50700	50000	1.4	40.0
4-Bromophenyl phenyl ether	Ave	0.2261	0.2377	0.1000	52600	50000	5.1	20.0
Hexachlorobenzene	Ave	0.2585	0.2739	0.1000	53000	50000	5.9	20.0
Pentachlorophenol	Ave	0.1455	0.1393	0.0500	95800	100000	-4.2	20.0
Phenanthrene	Ave	1.138	1.129	0.7000	49600	50000	-0.8	20.0
Anthracene	Ave	1.164	1.165	0.7000	50000	50000	0.0	20.0
Carbazole	Ave	1.038	0.9899	0.0100	47700	50000	-4.6	20.0
Di-n-butyl phthalate	Ave	1.174	1.251	0.0100	53300	50000	6.6	20.0
Fluoranthene	Ave	1.227	1.268	0.6000	51700	50000	3.4	20.0
Pyrene	Ave	1.086	0.9597	0.6000	44200	50000	-11.7	20.0
Butyl benzyl phthalate	Ave	0.4778	0.4550	0.0100	47600	50000	-4.8	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6431	0.6638	0.0100	51600	50000	3.2	20.0
Benzo(a)anthracene	Ave	1.046	1.023	0.8000	48900	50000	-2.2	20.0
Chrysene	Ave	1.111	1.001	0.7000	45100	50000	-9.8	20.0
Di-n-octyl phthalate	Ave	1.136	1.080	0.0100	47500	50000	-4.9	20.0
Benzo(b)fluoranthene	Ave	1.053	1.051	0.7000	49900	50000	-0.1	20.0
Benzo(k)fluoranthene	Ave	1.201	1.209	0.7000	50300	50000	0.7	20.0
Benzo(a)pyrene	Ave	1.035	1.043	0.7000	50400	50000	0.7	20.0
Indeno(1,2,3-cd)pyrene	Ave	1.350	1.282	0.5000	47500	50000	-5.0	20.0
Dibenz(a,h)anthracene	Ave	1.143	1.112	0.4000	48600	50000	-2.7	20.0
Benzo(g,h,i)perylene	Ave	1.128	1.006	0.5000	44600	50000	-10.8	20.0
2-Fluorophenol	Ave	1.391	1.292	0.0100	46400	50000	-7.1	25.0
Phenol-d5	Ave	1.749	1.593	0.0100	45600	50000	-8.9	25.0
Nitrobenzene-d5	Ave	0.3960	0.4144	0.0100	52300	50000	4.6	25.0
2-Fluorobiphenyl	Ave	1.320	1.322	0.0100	50100	50000	0.2	25.0
2,4,6-Tribromophenol	Ave	0.1220	0.1344	0.0100	55100	50000	10.2	25.0
p-Terphenyl-d14	Ave	0.8091	0.7594	0.0100	46900	50000	-6.2	25.0

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: U2079.D

Lab ID: 480-49751-39 MS Client ID: CS-3 MS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
2,4-Dinitrotoluene	2360	1200 U	1690	72	55-125	
2-Chlorophenol	2360	1200 U	1850	78	38-120	
4-Chloro-3-methylphenol	2360	1200 U	2290	97	49-125	
4-Nitrophenol	4720	2300 U	5080	108	43-137	
Acenaphthene	2360	1200 U	2040	86	53-120	
Bis(2-ethylhexyl) phthalate	2360	1200 U	2100	89	61-133	
Fluorene	2360	1200 U	1990	84	63-126	
Hexachloroethane	2360	1200 U	1710	72	41-120	
N-Nitrosodi-n-propylamine	2360	1200 U	1990	84	46-120	
Pentachlorophenol	4720	2300 U	2570	55	33-136	
Phenol	2360	1200 U	1880	79	36-120	
Pyrene	2360	490 J	2200	73	51-133	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: U2080.D

Lab ID: 480-49751-39 MSD Client ID: CS-3 MSD MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4-Dinitrotoluene	2350	1610	68	5	20	55-125	
2-Chlorophenol	2350	1880	80	2	25	38-120	
4-Chloro-3-methylphenol	2350	2070	88	10	27	49-125	
4-Nitrophenol	4700	4850	103	5	25	43-137	
Acenaphthene	2350	1910	81	6	35	53-120	
Bis(2-ethylhexyl) phthalate	2350	1850	79	12	15	61-133	
Fluorene	2350	1940	83	3	15	63-126	
Hexachloroethane	2350	1680	71	2	46	41-120	
N-Nitrosodi-n-propylamine	2350	1880	80	6	31	46-120	
Pentachlorophenol	4700	2450	52	5	35	33-136	
Phenol	2350	1810	77	4	35	36-120	
Pyrene	2350	1880	59	16	35	51-133	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: U2079.D

Lab ID: 480-49751-39 MS Client ID: CS-3 MS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
2,4,5-Trichlorophenol	2360	1200 U	1940	82	59-126	
2,4,6-Trichlorophenol	2360	1200 U	1930	82	59-123	
2,4-Dichlorophenol	2360	1200 U	2130	90	52-120	
2,4-Dimethylphenol	2360	1200 U	2220	94	36-120	
2,4-Dinitrophenol	4720	2300 U	3600	76	35-146	
2,4-Dinitrotoluene	2360	1200 U	1690	72	55-125	
2,6-Dinitrotoluene	2360	1200 U	1610	68	66-128	
2-Chloronaphthalene	2360	1200 U	1990	84	57-120	
2-Chlorophenol	2360	1200 U	1850	78	38-120	
2-Methylnaphthalene	2360	1200 U	2030	86	47-120	
2-Methylphenol	2360	1200 U	1850	78	48-120	
2-Nitroaniline	2360	2300 U	1890 J	80	61-130	
2-Nitrophenol	2360	1200 U	1730	73	50-120	
3-Nitroaniline	2360	2300 U	1270 J	54	61-127	F
4,6-Dinitro-2-methylphenol	4720	2300 U	4090	87	49-155	
4-Bromophenyl phenyl ether	2360	1200 U	2110	90	58-131	
4-Chloro-3-methylphenol	2360	1200 U	2290	97	49-125	
4-Chloroaniline	2360	1200 U	1280	54	49-120	
4-Chlorophenyl phenyl ether	2360	1200 U	2060	87	63-124	
4-Methylphenol	2360	2300 U	1990 J	84	50-119	
4-Nitroaniline	2360	2300 U	1010 J	43	63-128	F
4-Nitrophenol	4720	2300 U	5080	108	43-137	
Acenaphthene	2360	1200 U	2040	86	53-120	
Acenaphthylene	2360	1200 U	1950	83	58-121	
Acetophenone	2360	1200 U	1630	69	66-120	
Anthracene	2360	72 J	2080	85	62-129	
Benzaldehyde	2360	1200 U	1770	75	21-120	
Benzo(a)anthracene	2360	380 J	2330	83	65-133	
Benzo(a)pyrene	2360	300 J	2290	84	64-127	
Benzo(b)fluoranthene	2360	620 J	2680	87	64-135	
Benzo(g,h,i)perylene	2360	86 J	932 J	36	50-152	F
Benzo(k)fluoranthene	2360	190 J	2430	95	58-138	
Biphenyl	2360	1200 U	2020	86	71-120	
bis (2-chloroisopropyl) ether	2360	1200 U	1500	64	44-120	
Bis(2-chloroethoxy)methane	2360	1200 U	1750	74	61-133	
Bis(2-chloroethyl)ether	2360	1200 U	1670	71	45-120	
Bis(2-ethylhexyl) phthalate	2360	1200 U	2100	89	61-133	
Butyl benzyl phthalate	2360	1200 U	1940	82	61-129	
Carbazole	2360	1200 U	1960	83	59-129	
Chrysene	2360	370 J	2260	80	64-131	
Dibenz(a,h)anthracene	2360	1200 U	1100 J	47	54-148	F
Dibenzofuran	2360	1200 U	2060	87	56-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: U2079.D

Lab ID: 480-49751-39 MS Client ID: CS-3 MS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Diethyl phthalate	2360	1200 U	2260	96	66-126	
Dimethyl phthalate	2360	1200 U	2130	90	65-124	
Di-n-butyl phthalate	2360	1200 U	2210	94	58-130	
Di-n-octyl phthalate	2360	1200 U	2030	86	62-133	
Fluoranthene	2360	540 J	2580	86	62-131	
Fluorene	2360	1200 U	1990	84	63-126	
Hexachlorobenzene	2360	1200 U	2140	91	60-132	
Hexachlorobutadiene	2360	1200 U	2150	91	45-120	
Hexachlorocyclopentadiene	2360	1200 U	846 J	36	31-120	
Hexachloroethane	2360	1200 U	1710	72	41-120	
Indeno(1,2,3-cd)pyrene	2360	87 J	1130 J	44	56-149	F
Isophorone	2360	1200 U	1850	78	56-120	
Naphthalene	2360	1200 U	1920	82	46-120	
Nitrobenzene	2360	1200 U	1890	80	49-120	
N-Nitrosodi-n-propylamine	2360	1200 U	1990	84	46-120	
N-Nitrosodiphenylamine	2360	1200 U	2350	100	20-119	
Pentachlorophenol	4720	2300 U	2570	55	33-136	
Phenanthrene	2360	320 J	2250	82	60-130	
Phenol	2360	1200 U	1880	79	36-120	
Pyrene	2360	490 J	2200	73	51-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: U2080.D

Lab ID: 480-49751-39 MSD Client ID: CS-3 MSD MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4,5-Trichlorophenol	2350	1810	77	7	18	59-126	
2,4,6-Trichlorophenol	2350	1790	76	8	19	59-123	
2,4-Dichlorophenol	2350	1910	81	11	19	52-120	
2,4-Dimethylphenol	2350	1960	83	12	42	36-120	
2,4-Dinitrophenol	4700	3320	71	8	22	35-146	
2,4-Dinitrotoluene	2350	1610	68	5	20	55-125	
2,6-Dinitrotoluene	2350	1600	68	1	15	66-128	
2-Chloronaphthalene	2350	1900	81	5	21	57-120	
2-Chlorophenol	2350	1880	80	2	25	38-120	
2-Methylnaphthalene	2350	1950	83	4	21	47-120	
2-Methylphenol	2350	1830	78	1	27	48-120	
2-Nitroaniline	2350	1760 J	75	7	15	61-130	
2-Nitrophenol	2350	1810	77	5	18	50-120	
3-Nitroaniline	2350	1200 J	51	6	19	61-127	F
4,6-Dinitro-2-methylphenol	4700	3700	79	10	15	49-155	
4-Bromophenyl phenyl ether	2350	1920	82	9	15	58-131	
4-Chloro-3-methylphenol	2350	2070	88	10	27	49-125	
4-Chloroaniline	2350	1230	52	4	22	49-120	
4-Chlorophenyl phenyl ether	2350	1930	82	6	16	63-124	
4-Methylphenol	2350	1860 J	79	7	24	50-119	
4-Nitroaniline	2350	946 J	40	7	24	63-128	F
4-Nitrophenol	4700	4850	103	5	25	43-137	
Acenaphthene	2350	1910	81	6	35	53-120	
Acenaphthylene	2350	1820	77	7	18	58-121	
Acetophenone	2350	1570	67	4	20	66-120	
Anthracene	2350	1850	76	12	15	62-129	
Benzaldehyde	2350	1750	75	1	20	21-120	
Benzo(a)anthracene	2350	2050	71	13	15	65-133	
Benzo(a)pyrene	2350	2030	73	12	15	64-127	
Benzo(b)fluoranthene	2350	2530	81	6	15	64-135	
Benzo(g,h,i)perylene	2350	728 J	27	25	15	50-152	F
Benzo(k)fluoranthene	2350	2210	86	10	22	58-138	
Biphenyl	2350	1870	79	8	20	71-120	
bis (2-chloroisopropyl) ether	2350	1490	63	1	24	44-120	
Bis(2-chloroethoxy)methane	2350	1760	75	1	17	61-133	
Bis(2-chloroethyl)ether	2350	1660	71	0	21	45-120	
Bis(2-ethylhexyl) phthalate	2350	1850	79	12	15	61-133	
Butyl benzyl phthalate	2350	1700	72	14	16	61-129	
Carbazole	2350	1780	76	10	20	59-129	
Chrysene	2350	1970	68	14	15	64-131	
Dibenz(a,h)anthracene	2350	899 J	38	20	15	54-148	F
Dibenzofuran	2350	1910	81	7	15	56-120	

Column to be used to flag recovery and RPD values

FORM III

GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: U2080.D

Lab ID: 480-49751-39 MSD Client ID: CS-3 MSD MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Diethyl phthalate	2350	2080	88	8	15	66-126	
Dimethyl phthalate	2350	2040	87	5	15	65-124	
Di-n-butyl phthalate	2350	2000	85	10	15	58-130	
Di-n-octyl phthalate	2350	1880	80	8	16	62-133	
Fluoranthene	2350	2280	74	12	15	62-131	
Fluorene	2350	1940	83	3	15	63-126	
Hexachlorobenzene	2350	1930	82	10	15	60-132	
Hexachlorobutadiene	2350	2000	85	7	44	45-120	
Hexachlorocyclopentadiene	2350	824 J	35	3	49	31-120	
Hexachloroethane	2350	1680	71	2	46	41-120	
Indeno(1,2,3-cd)pyrene	2350	901 J	35	22	15	56-149	F
Isophorone	2350	1730	73	7	17	56-120	
Naphthalene	2350	1840	78	4	29	46-120	
Nitrobenzene	2350	1870	79	1	24	49-120	
N-Nitrosodi-n-propylamine	2350	1880	80	6	31	46-120	
N-Nitrosodiphenylamine	2350	2200	93	7	15	20-119	
Pentachlorophenol	4700	2450	52	5	35	33-136	
Phenanthrene	2350	1980	71	13	15	60-130	
Phenol	2350	1810	77	4	35	36-120	
Pyrene	2350	1880	59	16	35	51-133	

Column to be used to flag recovery and RPD values

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-150963/1-A

Instrument Code: ICAP1 Batch No.: 152706

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	9.4	U		6010C
7440-36-0	Antimony	14.1	U		6010C
7440-38-2	Arsenic	1.9	U	^	6010C
7440-39-3	Barium	0.47	U		6010C
7440-41-7	Beryllium	0.19	U		6010C
7440-43-9	Cadmium	0.19	U		6010C
7440-70-2	Calcium	5.56	J		6010C
7440-47-3	Chromium	0.47	U		6010C
7440-48-4	Cobalt	0.47	U		6010C
7440-50-8	Copper	0.94	U		6010C
7439-89-6	Iron	9.4	U		6010C
7439-92-1	Lead	0.94	U		6010C
7439-95-4	Magnesium	18.8	U		6010C
7439-96-5	Manganese	0.19	U		6010C
7440-02-0	Nickel	4.7	U		6010C
7440-09-7	Potassium	28.2	U		6010C
7782-49-2	Selenium	3.8	U		6010C
7440-22-4	Silver	0.47	U		6010C
7440-23-5	Sodium	131	U		6010C
7440-28-0	Thallium	5.6	U		6010C
7440-62-2	Vanadium	0.47	U		6010C
7440-66-6	Zinc	0.188	J		6010C

Associated samples: 480-49751-39 to 45

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

ICV Source: MEI_10_CCVL_00001 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00001

Analyte	ICVL 480-152706/8 11/17/2013 08:23				CCVL 480-152706/16 11/17/2013 15:48				CCVL 480-152706/28 11/17/2013 16:16			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.217		0.200	108	0.239		0.200	120	0.213		0.200	106
Antimony	0.0199	J	0.0200	100	0.0208		0.0200	104	0.0216		0.0200	108
Arsenic	0.0122		0.0100	122	0.0122		0.0100	122	0.0137		0.0100	137
Barium	0.00211		0.00200	106	0.00203		0.00200	102	0.00210		0.00200	105
Beryllium	0.00183	J	0.00200	92	0.00200		0.00200	100	0.00197	J	0.00200	99
Cadmium	0.00107		0.00100	107	0.00102		0.00100	102	0.00107		0.00100	107
Calcium	0.510		0.500	102	0.495	J	0.500	99	0.495	J	0.500	99
Chromium	0.00445		0.00400	111	0.00412		0.00400	103	0.00429		0.00400	107
Cobalt	0.00389	J	0.00400	97	0.00389	J	0.00400	97	0.00376	J	0.00400	94
Copper	0.00976	J	0.0100	98	0.00832	J	0.0100	83	0.00856	J	0.0100	86
Iron	0.0465	J	0.0500	93	0.0478	J	0.0500	96	0.0540		0.0500	108
Lead	0.00445	J	0.00500	89	0.00397	J	0.00500	79	0.00475	J	0.00500	95
Magnesium	0.204		0.200	102	0.207		0.200	104	0.209		0.200	105
Manganese	0.00302		0.00300	101	0.00306		0.00300	102	0.00312		0.00300	104
Nickel	0.00935	J	0.0100	94	0.00999	J	0.0100	100	0.00969	J	0.0100	97
Potassium	0.420	J	0.500	84	0.406	J	0.500	81	0.406	J	0.500	81
Selenium	0.0137	J	0.0150	91	0.0147	J	0.0150	98	0.0129	J	0.0150	86
Silver	0.00310		0.00300	103	0.00256	J	0.00300	85	0.00228	J	0.00300	76
Sodium	0.911	J	1.00	91	0.872	J	1.00	87	0.889	J	1.00	89
Thallium	0.0215		0.0200	107	0.0198	J	0.0200	99	0.0176	J	0.0200	88
Vanadium	0.00483	J	0.00500	97	0.00456	J	0.00500	91	0.00456	J	0.00500	91
Zinc	0.0108		0.0100	108	0.00948	J	0.0100	95	0.0106		0.0100	106

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 Buffalo Job No.: 480-49751-1

SDG No.:

ICV Source: MEI_10_CCVL_00001 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00001

Analyte	CCVL 480-152707/32 11/17/2013 17:42				CCVL 480-152707/44 11/17/2013 18:10				CCVL 480-152707/54 11/17/2013 18:38			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.0143		0.0100	143	0.0120		0.0100	120	0.0141		0.0100	141

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: CS-3 MS MS
Lab ID: 480-49751-39 MS
Lab Name: TestAmerica Buffalo
Job No.: 480-49751-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 69.7

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	11040		3570		2740	273	75-125	F	6010C
Antimony	47.16		1.9	J	54.7	83	75-125		6010C
Arsenic	75.88		19.7		54.7	103	75-125	^	6010C
Barium	186.3		98.7		54.7	160	75-125	F	6010C
Beryllium	55.11		0.38		54.7	100	75-125		6010C
Cadmium	51.28		1.9		54.7	90	75-125		6010C
Calcium	7714		3640		2740	149	75-125	F	6010C
Chromium	70.16		10.1		54.7	110	75-125		6010C
Cobalt	58.37		3.9		54.7	99	75-125		6010C
Copper	198.7		110		54.7	162	75-125	F	6010C
Iron	27290		19100		2740	298	75-125	4	6010C
Lead	404.8		299		54.7	194	75-125	4	6010C
Magnesium	4168		1110		2740	112	75-125		6010C
Manganese	265.4		149		54.7	212	75-125	F	6010C
Nickel	68.98		11.3		54.7	105	75-125		6010C
Potassium	4069		506		2740	130	75-125	F	6010C
Selenium	51.75		0.67	J	54.7	93	75-125		6010C
Silver	13.26		0.38	J	13.7	94	75-125		6010C
Sodium	2910		223		2740	98	75-125		6010C
Thallium	52.32		8.7	U	54.7	96	75-125		6010C
Vanadium	69.28		11.1		54.7	106	75-125		6010C
Zinc	601.1		439		54.7	296	75-125	4	6010C
Mercury	0.679		0.22		0.447	103	80-120		7471B

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: CS-3 MSD MSD
Lab ID: 480-49751-39 MSD
Lab Name: TestAmerica Buffalo
Job No.: 480-49751-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 69.7

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	10190		3130	211	75-125	8	20	F	6010C
Antimony	52.25		62.6	80	75-125	10	20		6010C
Arsenic	78.45		62.6	94	75-125	3	20	^	6010C
Barium	164.0		62.6	104	75-125	13	20		6010C
Beryllium	58.09		62.6	92	75-125	5	20		6010C
Cadmium	56.05		62.6	87	75-125	9	20		6010C
Calcium	7491		3130	123	75-125	3	20		6010C
Chromium	71.26		62.6	98	75-125	2	20		6010C
Cobalt	60.54		62.6	90	75-125	4	20		6010C
Copper	176.2		62.6	106	75-125	12	20		6010C
Iron	23780		3130	148	75-125	14	20	4	6010C
Lead	450.9		62.6	243	75-125	11	20	4	6010C
Magnesium	3976		3130	91	75-125	5	20		6010C
Manganese	214.9		62.6	105	75-125	21	20	F	6010C
Nickel	69.47		62.6	93	75-125	1	20		6010C
Potassium	3678		3130	101	75-125	10	20		6010C
Selenium	55.95		62.6	88	75-125	8	20		6010C
Silver	14.83		15.7	92	75-125	11	20		6010C
Sodium	2988		3130	88	75-125	3	20		6010C
Thallium	57.52		62.6	92	75-125	9	20		6010C
Vanadium	70.58		62.6	95	75-125	2	20		6010C
Zinc	505.4		62.6	106	75-125	17	20	4	6010C
Mercury	0.696		0.469	102	80-120	2	20		7471B

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: CS-3 PDS | Lab ID: 480-49751-39 PDS

Lab Name: TestAmerica Buffalo | Job No.: 480-49751-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	5787		3570		2920	76	75-125		6010C
Antimony	31.10		1.9	J	58.3	50	75-125	W	6010C
Arsenic	52.53		19.7		58.3	56	75-125	^ W	6010C
Barium	147.1		98.7		58.3	83	75-125		6010C
Beryllium	31.82		0.38		58.3	54	75-125	W	6010C
Cadmium	29.79		1.9		58.3	48	75-125	W	6010C
Calcium	5751		3640		2920	72	75-125	W	6010C
Chromium	42.38		10.1		58.3	55	75-125	W	6010C
Cobalt	35.04		3.9		58.3	53	75-125	W	6010C
Copper	160.1		110		58.3	86	75-125		6010C
Iron	24120		19100		2920	171	75-125	W	6010C
Lead	365.9		299		58.3	115	75-125		6010C
Magnesium	2783		1110		2920	57	75-125	W	6010C
Manganese	206.3		149		58.3	98	75-125		6010C
Nickel	44.14		11.3		58.3	56	75-125	W	6010C
Potassium	2070		506		2920	54	75-125	W	6010C
Selenium	29.33		0.67	J	58.3	49	75-125	W	6010C
Silver	7.52		0.38	J	14.6	49	75-125	W	6010C
Sodium	1697		223		2920	51	75-125	W	6010C
Thallium	29.50		8.7	U	58.3	51	75-125	W	6010C
Vanadium	41.68		11.1		58.3	52	75-125	W	6010C
Zinc	507.1		439		58.3	117	75-125		6010C

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

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-49751-39

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-49751-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	3570		5964		67	V	6010C
Antimony	1.9	J	3.26	J	NC		6010C
Arsenic	19.7		30.45		55	V ^	6010C
Barium	98.7		152.4		54	V	6010C
Beryllium	0.38		0.561	J	NC		6010C
Cadmium	1.9		2.41		30	V	6010C
Calcium	3640		5724		57	V	6010C
Chromium	10.1		17.01		68	V	6010C
Cobalt	3.9		6.85		73	V	6010C
Copper	110		164.8		50	V	6010C
Iron	19100		29390		54	V	6010C
Lead	299		399.9		34	V	6010C
Magnesium	1110		1847		66	V	6010C
Manganese	149		239.0		60	V	6010C
Nickel	11.3		19.00	J	68	V	6010C
Potassium	506		806.6		NC		6010C
Selenium	0.67	J	29.2	U	NC		6010C
Silver	0.38	J	3.6	U	NC		6010C
Sodium	223		291.1	J	NC		6010C
Thallium	8.7	U	43.7	U	NC		6010C
Vanadium	11.1		17.23		55	V	6010C
Zinc	439		582.0		33	V	6010C

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

FORM VIII-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-150963/1-A

Instrument Code: ICAP1 Batch No.: 152706

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	9.4	U		6010C
7440-36-0	Antimony	14.1	U		6010C
7440-38-2	Arsenic	1.9	U	^	6010C
7440-39-3	Barium	0.47	U		6010C
7440-41-7	Beryllium	0.19	U		6010C
7440-43-9	Cadmium	0.19	U		6010C
7440-70-2	Calcium	5.56	J		6010C
7440-47-3	Chromium	0.47	U		6010C
7440-48-4	Cobalt	0.47	U		6010C
7440-50-8	Copper	0.94	U		6010C
7439-89-6	Iron	9.4	U		6010C
7439-92-1	Lead	0.94	U		6010C
7439-95-4	Magnesium	18.8	U		6010C
7439-96-5	Manganese	0.19	U		6010C
7440-02-0	Nickel	4.7	U		6010C
7440-09-7	Potassium	28.2	U		6010C
7782-49-2	Selenium	3.8	U		6010C
7440-22-4	Silver	0.47	U		6010C
7440-23-5	Sodium	131	U		6010C
7440-28-0	Thallium	5.6	U		6010C
7440-62-2	Vanadium	0.47	U		6010C
7440-66-6	Zinc	0.188	J		6010C

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 150962	Date: 11/09/2013 10:04	Prep Batch: 150909	Date: 11/08/2013 18:50				
9012B	MB 480-150909/1-A	Cyanide, Total	0.96	U	mg/Kg	0.96	1
Batch ID: 151540	Date: 11/12/2013 15:22	Prep Batch: 151488	Date: 11/12/2013 12:22				
9012B	MB 480-151488/1-A	Cyanide, Total	0.85	U	mg/Kg	0.85	1
Batch ID: 151730	Date: 11/13/2013 09:29	Prep Batch: 151592	Date: 11/12/2013 22:25				
9012B	MB 480-151592/1-A	Cyanide, Total	1.21		mg/Kg	0.98	1
Batch ID: 151806	Date: 11/13/2013 13:40	Prep Batch: 151750	Date: 11/13/2013 10:59				
9012B	MB 480-151750/1-A	Cyanide, Total	0.86	U	mg/Kg	0.86	1
Batch ID: 152082	Date: 11/14/2013 12:26	Prep Batch: 152069	Date: 11/14/2013 11:54				
9012B	MB 480-152069/1-A	Cyanide, Total	0.89	U	mg/Kg	0.89	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 150962	Date: 11/09/2013 10:12		Prep Batch: 150909		Date: 11/08/2013 18:50						
9012B	480-49751-22	Cyanide, Total	12.4		mg/Kg						
9012B	480-49751-22 MS	Cyanide, Total	25.08		mg/Kg	13.3	95	85-115			
Batch ID: 151540	Date: 11/12/2013 15:28		Prep Batch: 151488		Date: 11/12/2013 12:22						
9012B	480-49751-34	Cyanide, Total	15.4		mg/Kg						
9012B	480-49751-34 MS	Cyanide, Total	79.64		mg/Kg	31.9	202	85-115			F
Batch ID: 151730	Date: 11/13/2013 09:36		Prep Batch: 151592		Date: 11/12/2013 22:25						
9012B	480-49751-27	Cyanide, Total	0.99	U	mg/Kg						
9012B	480-49751-27 MS	Cyanide, Total	10.93		mg/Kg	10.2	107	85-115			
Batch ID: 151806	Date: 11/13/2013 13:52		Prep Batch: 151750		Date: 11/13/2013 10:59						
9012B	480-49751-36	Cyanide, Total	28.2		mg/Kg						
9012B	480-49751-36 MS	Cyanide, Total	47.14		mg/Kg	19.4	98	85-115			
Batch ID: 151806	Date: 11/13/2013 14:07		Prep Batch: 151750		Date: 11/13/2013 10:59						
9012B	480-49751-39	Cyanide, Total	84.7		mg/Kg						
9012B	480-49751-39 MS	Cyanide, Total	136.8		mg/Kg	13.7	380	85-115			4

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 V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-49751-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 151540	Date: 11/12/2013 15:29		Prep Batch: 151488			Date: 11/12/2013 12:22					
9012B	480-49751-34 MSD	Cyanide, Total	72.24		mg/Kg	32.3	176	85-115	10	15	F
Batch ID: 151806	Date: 11/13/2013 14:08		Prep Batch: 151750			Date: 11/13/2013 10:59					
9012B	480-49751-39 MSD	Cyanide, Total	102.0		mg/Kg	14.1	123	85-115	29	15	4 F

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 V-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 480-49751-1

SDG No.:

Analyst: KMG Batch Start Date: 11/13/2013

Reporting Units: mg/Kg Analytical Batch No.: 109667

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	00:00	Cr (VI)	19.96	20.0	100	90-110		WCCHROME50PM2_00011
2	ICB	00:00	Cr (VI)	0.80				U	
24	CCV	11:14	Cr (VI)	19.64	20.0	98	90-110		WCCHROME50PPM_00010
25	CCB	11:14	Cr (VI)	0.276				J	
28	CCV	13:23	Cr (VI)	19.64	20.0	98	90-110		WCCHROME50PPM_00010
29	CCB	13:23	Cr (VI)	0.276				J	
39	CCV	13:25	Cr (VI)	19.64	20.0	98	90-110		WCCHROME50PPM_00010
40	CCB	13:25	Cr (VI)	0.276				J	

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

FORM II-IN