



# Memorandum

January 26, 2018

To: Dave Favero (RACER)

Ref. No.: 007878

*J.E.P.*

From: John-Eric Pardys/kf/174

**Subject: Buffer Basin Berm Soil Sampling Results**

GHD Services Inc. (GHD) has prepared the following memorandum to document the sampling results of the leftover berm soil from the former buffer basin at RACER's Saginaw Malleable Industrial Land (Site) in Saginaw, Michigan (Figure 1) in accordance with the Sampling Plan dated November 30, 2017. The purpose of the sampling was to demonstrate that the soil is suitable for use as fill or cover material at the Site. The pile consists of approximately 6,100 cubic yards of sand.

On December 4, 2017 GHD staff collected 9 discrete samples of the berm material beneath the HDPE liner (not the underlying ground on which the berm is placed). Samples were collected utilizing a hand auger with locations spread out evenly around the pile and at various depths. Figure 1 presents the approximate sample locations. The samples were submitted to TestAmerica Laboratories Inc. on a standard 2-week turn, for analysis of TAL metals, VOCs, SVOCs, and PCBs. Attachment A provides a copy of the laboratory analytical report.

The sample results were compared to the following 2017 Proposed Non-Residential MDEQ Part 201 Criteria:

- Direct Contact Criteria
- Particulate Soil Inhalation Criteria
- Infinite Source Volatile Soil Inhalation Criteria

The data were not screened against:

- Groundwater/Surface Water Interface (GSI) Protection Criteria since there is no GSI Protection Criteria in the 2017 Proposed Non-Residential MDEQ Part 201 Criteria
- Drinking Water Protection Criteria as the use of water as a potable source will be restricted at the Site
- Residential Criteria since the Site will be restricted to non-residential use.

Table 1 presents a summary of the results. There were no exceedances of criteria for any of the samples.

Therefore, based on the characterization results, the berm material is suitable for re-use at the Site.

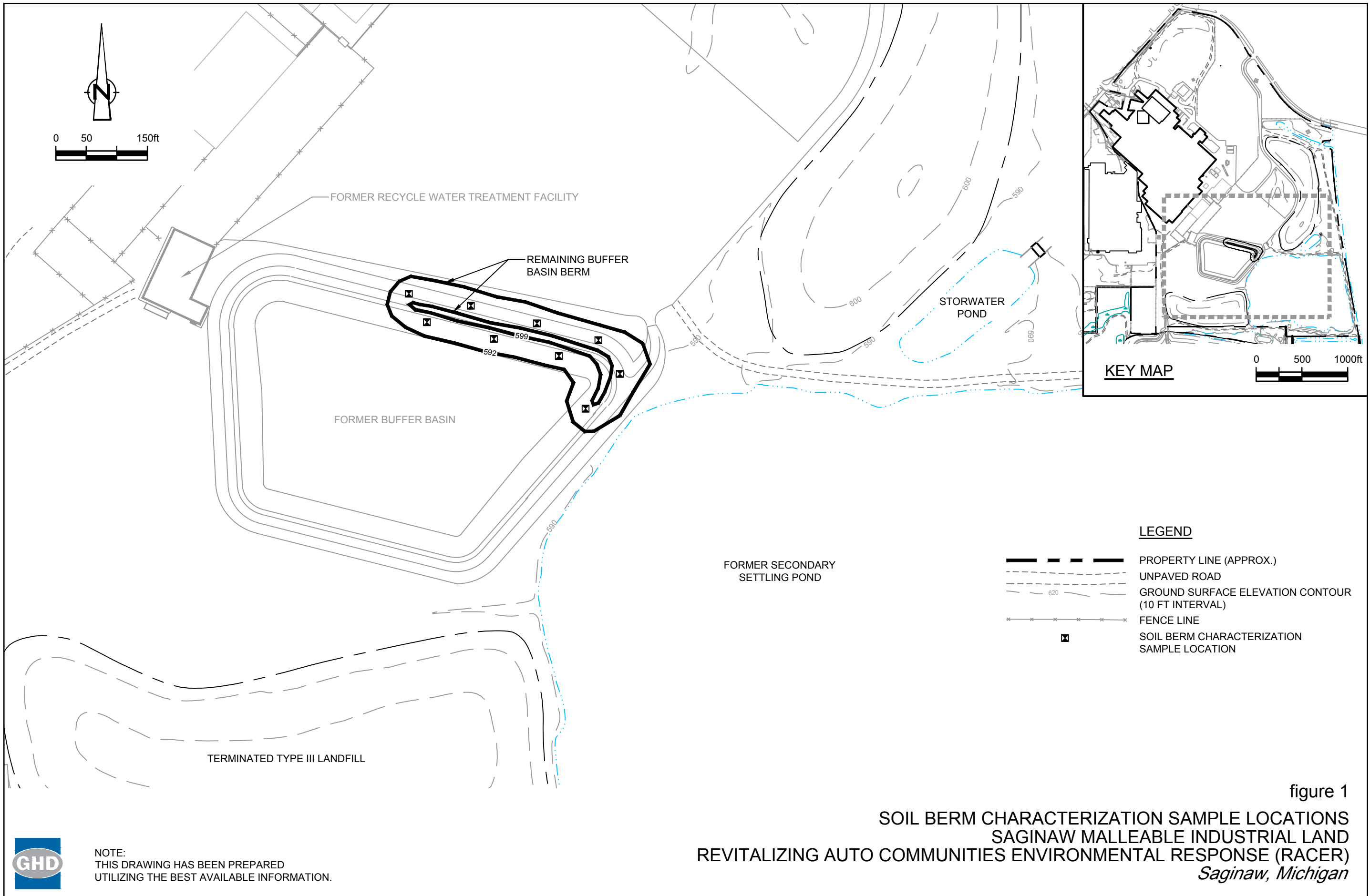


Table 1

**Buffer Basin Berm Soil Analytical Results Summary  
RACER Saginaw Malleable Industrial Land  
Saginaw, Michigan**

Sample Location:	B01-17	B02-17	B03-17	B04-17	B05-17	B06-17	B07-17	B08-17	B09-17					
Sample ID:	S-7878-120417-SSH-B01	S-7878-120417-SSH-B02	S-7878-120417-SSH-B03	S-7878-120417-SSH-B04	S-7878-120417-SSH-B05	S-7878-120417-SSH-B06	S-7878-120417-SSH-B07	S-7878-120417-SSH-B08	S-7878-120417-SSH-B09					
Sample Date:	12/4/2017	12/4/2017	12/4/2017	12/4/2017	12/4/2017	12/4/2017	12/4/2017	12/4/2017	12/4/2017					
Sample Depth:	-	-	-	-	-	-	-	-	-					
Parameters	Units	Statewide Default Background	NONRES_Direct Contact Criteria	AA_NONRES_Particate Soil Inhalation	AA_NONRES_Infinite Source Volatile Soil Inhalation Criteria									
VOAs		a	b	c	d									
1,1,1-Trichloroethane	mg/kg	-	100000	350000000	3700	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
1,1,2,2-Tetrachloroethane	mg/kg	-	170	52000	4.6	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
1,1,2-Trichloroethane	mg/kg	-	340	15	0.00066	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
1,1-Dichloroethane	mg/kg	-	5800	1900000	24	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
1,1-Dichloroethene	mg/kg	-	43000	15000000	120	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
1,2,4-Trichlorobenzene	mg/kg	-	1100	150000	27	0.22 U	0.22 U	0.21 U	0.2 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	41	540	0.1	0.22 U	0.22 U	0.21 U	0.2 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	17	5000	0.26	0.22 U	0.22 U	0.21 U	0.2 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U
1,2-Dichlorobenzene	mg/kg	-	100000	23000000	1600	0.09 U	0.086 U	0.085 U	0.08 U	0.083 U	0.087 U	0.086 U	0.082 U	0.084 U
1,2-Dichloroethane	mg/kg	-	360	120000	3.1	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
1,2-Dichloropropane	mg/kg	-	920	310000	7	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
1,3-Dichlorobenzene	mg/kg	-	1700	230000	14	0.09 U	0.086 U	0.085 U	0.08 U	0.083 U	0.087 U	0.086 U	0.082 U	0.084 U
1,4-Dichlorobenzene	mg/kg	-	2600	770000	48	0.09 U	0.086 U	0.085 U	0.08 U	0.083 U	0.087 U	0.086 U	0.082 U	0.084 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	100000	25000000	18000	0.67 U*	0.65 U*	0.64 U*	0.6 U*	0.65 U*	0.65 U*	0.65 U*	0.62 U*	0.63 U*
2-Hexanone	mg/kg	-	4300	2300000	180	2.2 U	2.2 U	2.1 U	2 U	2.1 U	2.2 U	2.2 U	2.1 U	2.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	43000	15000000	9400	2.2 U	2.2 U	2.1 U	2 U	2.1 U	2.2 U	2.2 U	2.1 U	2.1 U
Acetone	mg/kg	-	100000	160000000	130000	0.67 U	0.12 J	0.13 J	0.1 J	0.62 U	0.65 U	0.65 U	0.1 J	0.11 J
Benzene	mg/kg	-	430	380000	8.2	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
Bromodichloromethane	mg/kg	-	530	150000	3.7	0.09 U	0.086 U	0.085 U	0.08 U	0.083 U	0.087 U	0.086 U	0.082 U	0.084 U
Bromoform	mg/kg	-	4200	2700000	160	0.09 U	0.086 U	0.085 U	0.08 U	0.083 U	0.087 U	0.086 U	0.082 U	0.084 U
Bromomethane (Methyl bromide)	mg/kg	-	17000	770000	6.8	0.22 U	0.22 U	0.21 U	0.2 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U
Carbon disulfide	mg/kg	-	55000	54000000	400	0.22 U	0.22 U	0.21 U	0.2 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U
Carbon tetrachloride	mg/kg	-	510	540000	5.2	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
Chlorobenzene	mg/kg	-	17000	3800000	150	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
Chloroethane	mg/kg	-	17000	31000000	2500	0.22 U	0.22 U	0.21 U	0.2 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U
Chloroform (Trichloromethane)	mg/kg	-	8500	130000	2.1	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
Chloromethane (Methyl chloride)	mg/kg	-	10000	6900000	52	0.22 U	0.22 U	0.21 U	0.2 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U
cis-1,2-Dichloroethene	mg/kg	-	1700	620000	9.3	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
Cyclohexane	mg/kg	-	-	46000000	3200	1.1 U	1 U	1 U	0.96 U	1 U	1 U	1 U	0.98 U	1 U
Dibromochloromethane	mg/kg	-	390	120000	5.9	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
Dichlorodifluoromethane (CFC-12)	mg/kg	-	4300	25000000	160	0.09 U	0.086 U	0.085 U	0.08 U	0.083 U	0.087 U	0.086 U	0.082 U	0.084 U
Ethylbenzene	mg/kg	-	3000	1200000	41	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
Isopropyl benzene	mg/kg	-	85000	290000	11	0.22 U	0.22 U	0.21 U	0.2 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U
Methyl acetate	mg/kg	-	-	-	-	1.1 U	1 U	1 U	0.96 U	1 U	1 U	1 U	0.98 U	1 U
Methyl cyclohexane	mg/kg	-	-	-	-	1.1 U	1 U	1 U	0.96 U	1 U	1 U	1 U	0.98 U	1 U
Methyl tert butyl ether (MTBE)	mg/kg	-	9800	12000000	340	0.22 U	0.22 U	0.21 U	0.2 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U
Methylene chloride	mg/kg	-	5100	46000000	610	0.22 U	0.22 U	0.21 U	0.2 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U
Styrene	mg/kg	-	2600	5300000	290	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
Tetrachloroethene	mg/kg	-	5100	2100000	30	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
Toluene	mg/kg	-	67000	38000000	9700	0.09 U	0.086 U	0.085 U	0.08 U	0.083 U	0.087 U	0.086 U	0.082 U	0.084 U
trans-1,2-Dichloroethene	mg/kg	-	17000	40000000	460	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
Trichloroethene	mg/kg	-	250	100000	1.4	0.045 U	0.043 U	0.042 U	0.04 U	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U
Trichlorofluoromethane (CFC-11)	mg/kg	-	100000	34000000	240	0.09 U	0.086 U	0.085 U	0.08 U	0.083 U	0.087 U	0.086 U	0.082 U	0.084 U
Trifluorotrchloroethane (CFC-113)	mg/kg	-	100000	150000000	14000	0.22 U	0.22 U	0.21 U	0.2 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U
Vinyl chloride	mg/kg	-	46	680000	4.3	0.036 U	0.035 U	0.034 U	0.032 U	0.033 U	0.035 U	0.035 U	0.033 U	0.034 U
Xylenes (total)	mg/kg	-	100000	17000000	580	0.13 U	0.13 U	0.13 U	0.12 U	0.12 U	0.13 U	0.13 U	0.12 U	0.13 U
SVOAs														
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	mg/kg	-	-	-	-	0.11 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
2,4,5-Trichlorophenol	mg/kg	-	26000	27000000	-	0.16 U	0.15 U	0.15 U	0.15 U	0.15 U	0.16 U	0.16 U	0.15 U	0.16 U
2,4,6-Trichlorophenol	mg/kg	-	3000	970000	-	0.16 U	0.15 U	0.15 U	0.15 U	0.15 U	0.16 U	0.16 U	0.15 U	0.16 U
2,4-Dichlorophenol	mg/kg	-	17000	850000	-	0.16 U	0.15 U	0.15 U	0.15 U	0.15 U	0.16 U	0.16 U	0.15 U	0.16 U
2,4-Dimethylphenol	mg/kg	-	17000	5400000	-	0.16 U	0.15 U	0.15 U	0.15 U	0.15 U	0.16 U	0.16 U	0.15 U	0.16 U
2,4-Dinitrophenol	mg/kg	-	1700	540000	-	0.35 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
2,4-Dinitrotoluene	mg/kg	-	49	34000	-	0.21 U	0.21 U	0.21 U	0.2 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
2,6-Dinitrotoluene	mg/kg	-	-	-	-	0.21 U	0.21 U	0.21 U	0.2 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
2-Chloronaphthalene	mg/kg	-	68000	-	-	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U	0.052 U	0.051 U	0.052 U
2-Chlorophenol	mg/kg	-	4000	900000	680	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U	0.052 U	0.051 U	0.052 U
2-Methylnaphthalene	mg/kg	-	3400	770000	270	0.0071 U	0.0058 J	0.0068 U	0.007	0.037	0.019	0.0069 U	0.0069 U	0.06
2-Methylphenol	mg/kg	-	100000	7700000	-	0.21 U	0.21 U	0.21 U	0.2 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
2-Nitroaniline	mg/kg	-	-	-	-	0.21 U	0.21 U	0.21 U	0.2 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
2-Nitrophenol	mg/kg	-	1700	3900	2.7	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U	0.052 U	0.051 U	0.052 U
3&4-Methylphenol	mg/kg	-	-	-	-	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U
3,3'-Dichlorobenzidine	mg/kg	-	74	8800	-	0.11 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
3-Nitroaniline	mg/kg	-	-	-	-	0.21 U	0.21 U	0.21 U	0.2 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
4,6-Dinitro-2-methylphenol	mg/kg	-	340	150000	-	0.16 U	0.15 U	0.15 U	0.15 U	0.15 U	0.16 U	0.16 U	0.15 U	0.16 U
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U	0.052 U	0.051 U	0.052 U
4-Chloro-3-methylphenol	mg/kg	-	50000	-	-	0.16 U	0.15 U	0.15 U	0.15 U	0.15 U	0.16 U	0.16 U	0.15 U	0.16 U

Table 1

**Buffer Basin Berm Soil Analytical Results Summary  
RACER Saginaw Malleable Industrial Land  
Saginaw, Michigan**

Sample Location:					B01-17	B02-17	B03-17	B04-17	B05-17	B06-17	B07-17	B08-17	B09-17	
Sample ID:					S-7878-120417-SSH-B01	S-7878-120417-SSH-B02	S-7878-120417-SSH-B03	S-7878-120417-SSH-B04	S-7878-120417-SSH-B05	S-7878-120417-SSH-B06	S-7878-120417-SSH-B07	S-7878-120417-SSH-B08	S-7878-120417-SSH-B09	
Sample Date:					12/4/2017	12/4/2017	12/4/2017	12/4/2017	12/4/2017	12/4/2017	12/4/2017	12/4/2017	12/4/2017	
Sample Depth:					-	-	-	-	-	-	-	-	-	
Parameters	Units	Statewide Default Background	NONRES_Direct Contact Criteria	AA_NONRES_Particate Soil Inhalation	AA_NONRES_Infinite Source Volatile Soil Inhalation Criteria									
4-Chloroaniline	mg/kg	-	170	-	-	0.16 U	0.15 U	0.15 U	0.15 U	0.15 U	0.16 U	0.16 U	0.15 U	0.16 U
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U	0.052 U	0.051 U	0.052 U
4-Nitroaniline	mg/kg	-	-	-	-	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
4-Nitrophenol	mg/kg	-	-	-	-	0.35 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Acenaphthene	mg/kg	-	51000	16000000	14000	0.0071 U	0.0069 U	0.0068 U	0.0068 U	0.0068 U	0.0069 U	0.0069 U	0.0069 U	0.0069 U
Acenaphthylene	mg/kg	-	51000	16000000	18000	0.0071 U	0.0069 U	0.0068 U	0.0068 U	0.0068 U	0.0069 U	0.0069 U	0.0069 U	0.0069 U
Acetophenone	mg/kg	-	100000	16000000	58000	0.11 U	0.1 U	0.1 U	0.1 U	0.01 J	0.1 U	0.1 U	0.1 U	0.1 U
Anthracene	mg/kg	-	100000	77000000	240000	0.0071 U	0.0069 U	0.0068 U	0.0038 J	0.0068 U	0.0069 U	0.0069 U	0.0069 U	0.0039 J
Atrazine	mg/kg	-	15000	16000000	-	0.21 U*	0.21 U*	0.21 U*	0.21 U*	0.21 U*	0.21 U*	0.21 U*	0.21 U*	0.21 UF1*
Benzaldehyde	mg/kg	-	-	-	-	0.11 U	0.1 U	0.1 U	0.012 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(a)anthracene	mg/kg	-	-	50000	1300	0.0071 U	0.0069 U	0.0068 U	0.0068 U	0.0068 U	0.0069 U	0.0069 U	0.0069 U	0.0069 U
Benzo(a)pyrene	mg/kg	-	41	100	-	0.0071 U	0.0069 U	0.0068 U	0.0068 U	0.0068 U	0.0069 U	0.0069 U	0.0069 U	0.0069 U
Benzo(b)fluoranthene	mg/kg	-	-	50000	-	0.0071 U	0.0069 U	0.0068 U	0.0068 U	0.0068 U	0.0069 U	0.0069 U	0.0069 U	0.012
Benzo(g,h,i)perylene	mg/kg	-	2100	540000	-	0.0071 U	0.0069 U	0.0068 U	0.0068 U	0.0068 U	0.0069 U	0.0069 U	0.0069 U	0.012
Benzo(k)fluoranthene	mg/kg	-	-	500000	-	0.0071 U	0.0069 U	0.0068 U	0.0068 U	0.0068 U	0.0069 U	0.0069 U	0.0069 U	0.0069 U
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	0.053 U	0.052 U	0.051 U	0.051 U	0.0066 J	0.052 U	0.052 U	0.051 U	0.0074 J
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	0.11 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
bis(2-Chloroethyl)ether	mg/kg	-	30	9100	1.8	0.11 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	3400	1900000	-	0.074 U	0.072 U	0.072 U	0.071 U	0.072 U	0.072 U	0.072 U	0.072 U	0.073 U
Butyl benzylphthalate (BBP)	mg/kg	-	9900	60000000	-	0.074 U	0.072 U	0.072 U	0.071 U	0.072 U	0.072 U	0.072 U	0.072 U	0.073 U
Caprolactam	mg/kg	-	100000	170000	-	0.35 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Carbazole	mg/kg	-	340	1100000	-	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U	0.052 U	0.051 U	0.052 U
Chrysene	mg/kg	-	-	5000000	-	0.0071 U	0.0069 U	0.0068 U	0.0068 U	0.0068 U	0.0069 U	0.0069 U	0.0069 U	0.0069 U
Dibenz(a,h)anthracene	mg/kg	-	-	5000	-	0.0071 U	0.0069 U	0.0068 U	0.0068 U	0.0068 U	0.0069 U	0.0069 U	0.0069 U	0.0069 U
Dibenzofuran	mg/kg	-	850	310000	410	0.053 U	0.052 U	0.051 U	0.051 U	0.014 J	0.052 U	0.052 U	0.051 U	0.017 J
Diethyl phthalate	mg/kg	-	100000	22000000	-	0.074 U	0.021 J	0.072 U	0.071 U	0.072 U	0.03 J	0.072 U	0.072 U	0.073 U
Dimethyl phthalate	mg/kg	-	85000	3800000	-	0.074 U	0.072 U	0.072 U	0.071 U	0.072 U	0.072 U	0.072 U	0.072 U	0.073 U
Di-n-butylphthalate (DBP)	mg/kg	-	3300	1000000	-	0.021 J	0.02 J	0.019 J	0.023 J	0.018 J	0.019 J	0.02 J	0.018 J	0.02 J
Di-n-octyl phthalate (DnOP)	mg/kg	-	15000	36000000	450000	0.074 U	0.072 U	0.072 U	0.071 U	0.072 U	0.072 U	0.072 U	0.072 U	0.073 U
Fluoranthene	mg/kg	-	49000	11000000	-	0.0071 U	0.0069 U	0.0068 U	0.0068 U	0.0089	0.0069 U	0.0069 U	0.0069 U	0.011
Fluorene	mg/kg	-	34000	11000000	15000	0.0071 U	0.0069 U	0.0068 U	0.0036 J	0.0069 U	0.0069 U	0.0069 U	0.0069 U	0.0069 U
Hexachlorobenzene	mg/kg	-	12	2700	1.1	0.0071 U	0.0069 U	0.0068 U	0.0068 U	0.0068 U	0.0069 U	0.0069 U	0.0069 U	0.0069 U
Hexachlorobutadiene	mg/kg	-	430	140000	8.8	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U	0.052 U	0.051 U	0.052 U
Hexachlorocyclopentadiene	mg/kg	-	7400	15000	0.78	0.35 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 UF2F1
Hexachloroethane	mg/kg	-	600	300000	14	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U	0.052 U	0.051 U	0.052 U
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	50000	-	0.0071 U	0.0069 U	0.0068 U	0.0068 U	0.0068 U	0.0069 U	0.0069 U	0.0069 U	0.0069 U
Isophorone	mg/kg	-	35000	11000000	-	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U	0.052 U	0.051 U	0.052 U
Naphthalene	mg/kg	-	85000	88000	24	0.0071 U	0.0043 J	0.0068 U	0.0056 J	0.03	0.015	0.0069 U	0.0069 U	0.043
Nitrobenzene	mg/kg	-	1700	75000	33	0.11 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
N-Nitrosodi-n-propylamine	mg/kg	-	4.7	1500	-	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U	0.052 U	0.051 U	0.052 U
N-Nitrosodiphenylamine	mg/kg	-	6800	-	-	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U	0.052 U	0.051 U	0.052 U
Pentachlorophenol	mg/kg	-	65	27000	-	0.16 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.16 U
Phenanthrene	mg/kg	-	26000	7700	28	0.0071 U	0.0041 J	0.0068 U	0.006 J	0.026	0.013	0.0069 U	0.0069 U	0.041
Phenol	mg/kg	-	100000	15000000	-	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U	0.052 U	0.051 U	0.052 U
Pyrene	mg/kg	-	37000	7700000	110000	0.0071 U	0.0069 U	0.0068 U	0.0054 J	0.0074	0.0049 J	0.0069 U	0.0069 U	0.011
<b>Metals</b>														
Aluminum	mg/kg	5700	100000	420000	-	1700	1300	1400	1600	1400	1600	1300	1100	1700
Antimony	mg/kg	-	600	15000	-	0.13 JB	0.058 JB	0.057 JB	0.044 JB	0.036 JB	0.027 JB	0.025 JB	0.022 JB	0.025 JB
Arsenic	mg/kg	5.5	52	700	-	0.88 B	0.81 B	1.1 B	0.60 B	0.54 B	0.75 B	0.76 B	0.79 B	1.2 B
Barium	mg/kg	45	100000	380000	-	8.0	8.2	9.9	6.8	7.7	8.8	8.3	8.0	9.5
Beryllium	mg/kg	1	290	1300	-	0.046 J	0.064 J	0.17 U	0.047 J	0.037 J	0.040 J	0.035 J	0.033 J	0.073 J
Cadmium	mg/kg	2	220	1700	-	0.049 J	0.042 J	0.047 J	0.033 J	0.069 J	0.056 J	0.042 J	0.028 J	0.047 J
Calcium	mg/kg	-	-	-	-	680	5400	1900	780	1600	4500	680	680	3500
Chromium	mg/kg	-	-	-	-	2.1	2.1	2.3	2.1	2.3	2.5	2.7	1.8	2.9
Cobalt	mg/kg	10	740	330	-	0.80	0.65	0.75	0.54	0.53	0.72	0.65	0.65	0.77
Copper	mg/kg	14	2500	150000	-	2.0	1.6	1.7	1.4	2.3	2.1	1.6	1.4	2.5
Iron	mg/kg	11250	100000	-	-	1600	1600	1600	1500	1800	1900	1600	1300	2600
Lead	mg/kg	11	760	12000	-	1.3	1.2	1.1	1.1	2.7	1.7	1.4	1.1	1.9
Magnesium	mg/kg	-	100000	7700000	-	450	690	990	390	330	990	510	420	1300
Manganese	mg/kg	360	32000	23000	-	12	16	20	12	32	23	19	11	34
Mercury	mg/kg	-	150	23000	0.19	0.041 U	0.045 U	0.040 U	0.040 U	0.041 U	0.043 U	0.042 U	0.040 U	0.042 U
Nickel	mg/kg	15	4000	6900	-	2.4 B	2.1 B	2.2 B	1.9 B	2.0 B	2.5 B	2.0 B	1.8 B	2.9 B
Potassium	mg/kg	-	-	-	-	110 JB	130 JB	140 JB	96 JB	94 JB	130 JB	120 JB	99 JB	150 JB
Selenium	mg/kg	0.61	12000	1500000	-	0.23 B	0.23 B	0.23 B	0.22 B	0.23 B	0.23 B	0.23 B	0.23 B	0.31 B
Silver	mg/kg	-	670	230000	-	0.0056 JB	0.0064 JB	0.0052 JB	0.0038 JB	0.0085 JB	0.0064 JB	0.0059 JB	0.0045 JB	0.0072 JB
Sodium	mg/kg	-	100000	-	-	86 U	44 JB	32 JB	21 JB	21 JB	21 JB	18 JB	67 U	22 JB
Thallium	mg/kg	-	25	15000	-	0.024 J	0.018 J	0.083 U	0.021 J	0.071 U	0.021 J	0.076 U	0.067 U	0.020 J
Vanadium	mg/kg	27	33	7700	-	3.4	2.7	3.7	2.5	2.7	3.1	3.0	2.4	4.2
Zinc	mg/kg	39	100000	-	-	4.1 B	4.8 B	4.2 B	4.3 B	19 B	11 B	5.8 B	4.0 B	9.6 B

**Table 1**  
**Buffer Basin Berm Soil Analytical Results Summary**  
**RACER Saginaw Malleable Industrial Land**  
**Saginaw, Michigan**

Sample Location:						B01-17	B02-17	B03-17	B04-17	B05-17	B06-17	B07-17	B08-17	B09-17
Sample ID:						S-7878-120417-SSH-B01	S-7878-120417-SSH-B02	S-7878-120417-SSH-B03	S-7878-120417-SSH-B04	S-7878-120417-SSH-B05	S-7878-120417-SSH-B06	S-7878-120417-SSH-B07	S-7878-120417-SSH-B08	S-7878-120417-SSH-B09
Sample Date:						12/4/2017	12/4/2017	12/4/2017	12/4/2017	12/4/2017	12/4/2017	12/4/2017	12/4/2017	12/4/2017
Sample Depth:						-	-	-	-	-	-	-	-	-
Parameters	Units	Statewide Default Background	NONRES_Direct Contact Criteria	AA_NONRES_Particiulate Soil Inhalation	AA_NONRES_Infinite Source Volatile Soil Inhalation Criteria									
<b>PCBs</b>														
Aroclor-1016 (PCB-1016)	mg/kg	-	-	-	-	0.053 U	0.052 U	0.053 U	0.052 U	0.052 U	0.051 U	0.051 U	0.05 U	0.052 U
Aroclor-1221 (PCB-1221)	mg/kg	-	-	-	-	0.053 U	0.052 U	0.053 U	0.052 U	0.052 U	0.051 U	0.051 U	0.05 U	0.052 U
Aroclor-1232 (PCB-1232)	mg/kg	-	-	-	-	0.053 U	0.052 U	0.053 U	0.052 U	0.052 U	0.051 U	0.051 U	0.05 U	0.052 U
Aroclor-1242 (PCB-1242)	mg/kg	-	-	-	-	0.053 U	0.052 U	0.053 U	0.052 U	0.052 U	0.051 U	0.051 U	0.05 U	0.052 U
Aroclor-1248 (PCB-1248)	mg/kg	-	-	-	-	0.053 U	0.052 U	0.053 U	0.052 U	0.052 U	0.051 U	0.051 U	0.05 U	0.052 U
Aroclor-1254 (PCB-1254)	mg/kg	-	-	-	-	0.24	0.12	0.31	0.052 U	0.052 U	0.051 U	0.57	0.26	0.43
Aroclor-1260 (PCB-1260)	mg/kg	-	-	-	-	0.053 U	0.052 U	0.053 U	0.052 U	0.052 U	0.051 U	0.051 U	0.05 U	0.052 U

Notes:  
 U - Not detected at the associated reporting limit.  
 J - Estimated concentration.

# Attachment A

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-88853-1

Client Project/Site: 7878, RACER SMI

For:

GHD Services Inc.

26850 Haggerty Rd.

Farmington Hills, Michigan 48331

Attn: James Abston



Authorized for release by:

12/14/2017 2:15:58 PM

Denise Heckler, Project Manager II

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

1

2

3

4

5

6

7

8

9

10

11

12

13

14



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Case Narrative . . . . .	3
Definitions/Glossary . . . . .	5
Sample Summary . . . . .	6
Detection Summary . . . . .	7
Method Summary . . . . .	13
Client Sample Results . . . . .	14
QC Association Summary . . . . .	95
QC Sample Results . . . . .	99
Surrogate Summary . . . . .	115
Lab Chronicle . . . . .	117
Certification Summary . . . . .	122
Chain of Custody . . . . .	123

# Case Narrative

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

**Job ID: 240-88853-1**

**Laboratory: TestAmerica Canton**

## Narrative

### Job Narrative 240-88853-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 12/5/2017 10:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5° C.

#### GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for preparation batch 240-306686 and analytical batch 240-306624 recovered outside control limits for the following analytes: 2-Butanone. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample (LCS) for preparation batch 240-306686 and analytical batch 240-306775 recovered outside control limits for the following analytes: 2-Butanone. This analytes was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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

#### GC/MS Semi VOA

Method(s) 8270C: The laboratory control sample (LCS) for prep batch 306476 recovered outside control limits for the following analytes: Atrazine. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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

#### GC Semi VOA

Method(s) 8082A: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: S-7878-120417-SSH-B03 (240-88853-3). These results have been reported and qualified.

Method(s) 8082A: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: S-7878-120417-SSH-B01 (240-88853-1), S-7878-120417-SSH-B02 (240-88853-2), S-7878-120417-SSH-B03 (240-88853-3), S-7878-120417-SSH-B04 (240-88853-4), S-7878-120417-SSH-B08 (240-88853-8), S-7878-120417-SSH-B09 (240-88853-9), (240-89066-B-1-A), (240-89066-B-1-B MS) and (240-89066-B-1-C MSD). 3382244, 3154251, 3361890.

Method(s) 8082A: The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: S-7878-120417-SSH-B02 (240-88853-2) and S-7878-120417-SSH-B03 (240-88853-3). The samples have been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

Method(s) 8082A: The matrix spike (MS) and duplicate recoveries for preparation batch 240-306846 and analytical batch 240-307250 were outside control limits for Aroclor 1016. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8082A: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: S-7878-120417-SSH-B05 (240-88853-5). These results have been reported and qualified.

Method(s) 8082A: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: S-7878-120417-SSH-B05 (240-88853-5), S-7878-120417-SSH-B06 (240-88853-6) and S-7878-120417-SSH-B07 (240-88853-7).

# Case Narrative

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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## Job ID: 240-88853-1 (Continued)

---

### Laboratory: TestAmerica Canton (Continued)

3382244, 3154251, 3361890.

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

#### Metals

Method(s) 6010B, 6020: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: S-7878-120417-SSH-B01 (240-88853-1), S-7878-120417-SSH-B02 (240-88853-2), S-7878-120417-SSH-B03 (240-88853-3), S-7878-120417-SSH-B04 (240-88853-4), S-7878-120417-SSH-B05 (240-88853-5), S-7878-120417-SSH-B06 (240-88853-6), S-7878-120417-SSH-B07 (240-88853-7), S-7878-120417-SSH-B08 (240-88853-8) and S-7878-120417-SSH-B09 (240-88853-9)The continuing calibration blanks and method blanks may not support the lower PQL.

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

#### General Chemistry

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

#### Organic Prep

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

#### VOA Prep

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



# Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

### GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
U	Indicates the analyte was analyzed for but not detected.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

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

TestAmerica Canton

# Sample Summary

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-88853-1	S-7878-120417-SSH-B01	Solid	12/04/17 11:45	12/05/17 10:45
240-88853-2	S-7878-120417-SSH-B02	Solid	12/04/17 11:55	12/05/17 10:45
240-88853-3	S-7878-120417-SSH-B03	Solid	12/04/17 12:05	12/05/17 10:45
240-88853-4	S-7878-120417-SSH-B04	Solid	12/04/17 12:15	12/05/17 10:45
240-88853-5	S-7878-120417-SSH-B05	Solid	12/04/17 12:25	12/05/17 10:45
240-88853-6	S-7878-120417-SSH-B06	Solid	12/04/17 12:35	12/05/17 10:45
240-88853-7	S-7878-120417-SSH-B07	Solid	12/04/17 12:45	12/05/17 10:45
240-88853-8	S-7878-120417-SSH-B08	Solid	12/04/17 12:55	12/05/17 10:45
240-88853-9	S-7878-120417-SSH-B09	Solid	12/04/17 13:05	12/05/17 10:45

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- 2
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- 12
- 13
- 14

# Detection Summary

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

**Client Sample ID: S-7878-120417-SSH-B01**

**Lab Sample ID: 240-88853-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	21	J	74	16	ug/Kg	1	☼	8270C	Total/NA
Aroclor-1254	240		53	24	ug/Kg	1	☼	8082A	Total/NA
Aluminum	1700		17	6.2	mg/Kg	1	☼	6010B	Total/NA
Barium	8.0		0.86	0.44	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.046	J	0.17	0.028	mg/Kg	1	☼	6010B	Total/NA
Calcium	680		430	25	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.049	J	0.086	0.022	mg/Kg	1	☼	6010B	Total/NA
Cobalt	0.80		0.43	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	2.1		0.86	0.080	mg/Kg	1	☼	6010B	Total/NA
Copper	2.0		0.86	0.25	mg/Kg	1	☼	6010B	Total/NA
Iron	1600		8.6	3.4	mg/Kg	1	☼	6010B	Total/NA
Potassium	110	J B	430	6.6	mg/Kg	1	☼	6010B	Total/NA
Magnesium	450		86	5.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	12		0.86	0.090	mg/Kg	1	☼	6010B	Total/NA
Nickel	2.4	B	0.86	0.086	mg/Kg	1	☼	6010B	Total/NA
Vanadium	3.4		0.86	0.21	mg/Kg	1	☼	6010B	Total/NA
Zinc	4.1	B	2.1	0.60	mg/Kg	1	☼	6010B	Total/NA
Lead	1.3		0.26	0.21	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.13	J B	0.17	0.015	mg/Kg	2	☼	6020	Total/NA
Arsenic	0.88	B	0.086	0.028	mg/Kg	2	☼	6020	Total/NA
Selenium	0.23	B	0.17	0.043	mg/Kg	2	☼	6020	Total/NA
Thallium	0.024	J	0.086	0.020	mg/Kg	2	☼	6020	Total/NA
Silver	0.0056	J B	0.086	0.0015	mg/Kg	2	☼	6020	Total/NA

**Client Sample ID: S-7878-120417-SSH-B02**

**Lab Sample ID: 240-88853-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	120	J	650	100	ug/Kg	1	☼	8260B	Total/NA
2-Methylnaphthalene	5.8	J	6.9	0.52	ug/Kg	1	☼	8270C	Total/NA
Diethyl phthalate	21	J	72	17	ug/Kg	1	☼	8270C	Total/NA
Di-n-butyl phthalate	20	J	72	15	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	4.3	J	6.9	0.85	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	4.1	J	6.9	0.75	ug/Kg	1	☼	8270C	Total/NA
Aroclor-1254	120		52	24	ug/Kg	1	☼	8082A	Total/NA
Aluminum	1300		14	5.1	mg/Kg	1	☼	6010B	Total/NA
Barium	8.2		0.71	0.36	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.064	J	0.14	0.023	mg/Kg	1	☼	6010B	Total/NA
Calcium	5400		350	20	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.042	J	0.071	0.019	mg/Kg	1	☼	6010B	Total/NA
Cobalt	0.65		0.35	0.042	mg/Kg	1	☼	6010B	Total/NA
Chromium	2.1		0.71	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	1.6		0.71	0.20	mg/Kg	1	☼	6010B	Total/NA
Iron	1600		7.1	2.8	mg/Kg	1	☼	6010B	Total/NA
Potassium	130	J B	350	5.5	mg/Kg	1	☼	6010B	Total/NA
Magnesium	690		71	4.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	16		0.71	0.074	mg/Kg	1	☼	6010B	Total/NA
Sodium	44	J B	71	17	mg/Kg	1	☼	6010B	Total/NA
Nickel	2.1	B	0.71	0.071	mg/Kg	1	☼	6010B	Total/NA
Vanadium	2.7		0.71	0.18	mg/Kg	1	☼	6010B	Total/NA
Zinc	4.8	B	1.8	0.49	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Client Sample ID: S-7878-120417-SSH-B02 (Continued)

## Lab Sample ID: 240-88853-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.2		0.21	0.18	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.058	J B	0.14	0.012	mg/Kg	2	☼	6020	Total/NA
Arsenic	0.81	B	0.071	0.023	mg/Kg	2	☼	6020	Total/NA
Selenium	0.25	B	0.14	0.035	mg/Kg	2	☼	6020	Total/NA
Thallium	0.018	J	0.071	0.017	mg/Kg	2	☼	6020	Total/NA
Silver	0.0064	J B	0.071	0.0012	mg/Kg	2	☼	6020	Total/NA

## Client Sample ID: S-7878-120417-SSH-B03

## Lab Sample ID: 240-88853-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	130	J	640	100	ug/Kg	1	☼	8260B	Total/NA
Di-n-butyl phthalate	19	J	72	15	ug/Kg	1	☼	8270C	Total/NA
Aroclor-1254	310		53	24	ug/Kg	1	☼	8082A	Total/NA
Aluminum	1400		17	6.1	mg/Kg	1	☼	6010B	Total/NA
Barium	9.9		0.83	0.43	mg/Kg	1	☼	6010B	Total/NA
Calcium	1900		420	24	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.047	J	0.083	0.022	mg/Kg	1	☼	6010B	Total/NA
Cobalt	0.75		0.42	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	2.3		0.83	0.078	mg/Kg	1	☼	6010B	Total/NA
Copper	1.7		0.83	0.24	mg/Kg	1	☼	6010B	Total/NA
Iron	1600		8.3	3.3	mg/Kg	1	☼	6010B	Total/NA
Potassium	140	J B	420	6.5	mg/Kg	1	☼	6010B	Total/NA
Magnesium	990		83	5.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	20		0.83	0.088	mg/Kg	1	☼	6010B	Total/NA
Sodium	32	J B	83	20	mg/Kg	1	☼	6010B	Total/NA
Nickel	2.2	B	0.83	0.083	mg/Kg	1	☼	6010B	Total/NA
Vanadium	3.7		0.83	0.21	mg/Kg	1	☼	6010B	Total/NA
Zinc	4.2	B	2.1	0.58	mg/Kg	1	☼	6010B	Total/NA
Lead	1.1		0.25	0.21	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.057	J B	0.17	0.015	mg/Kg	2	☼	6020	Total/NA
Arsenic	1.1	B	0.083	0.027	mg/Kg	2	☼	6020	Total/NA
Selenium	0.28	B	0.17	0.042	mg/Kg	2	☼	6020	Total/NA
Silver	0.0052	J B	0.083	0.0015	mg/Kg	2	☼	6020	Total/NA

## Client Sample ID: S-7878-120417-SSH-B04

## Lab Sample ID: 240-88853-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	100	J	600	97	ug/Kg	1	☼	8260B	Total/NA
2-Methylnaphthalene	7.0		6.8	0.51	ug/Kg	1	☼	8270C	Total/NA
Anthracene	3.8	J	6.8	0.80	ug/Kg	1	☼	8270C	Total/NA
Benzaldehyde	12	J	100	12	ug/Kg	1	☼	8270C	Total/NA
Di-n-butyl phthalate	23	J	71	15	ug/Kg	1	☼	8270C	Total/NA
Fluorene	3.6	J	6.8	0.54	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	5.6	J	6.8	0.84	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	6.0	J	6.8	0.74	ug/Kg	1	☼	8270C	Total/NA
Pyrene	5.4	J	6.8	0.45	ug/Kg	1	☼	8270C	Total/NA
Aluminum	1600		14	5.0	mg/Kg	1	☼	6010B	Total/NA
Barium	6.8		0.69	0.35	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.047	J	0.14	0.022	mg/Kg	1	☼	6010B	Total/NA
Calcium	780		350	20	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

**Client Sample ID: S-7878-120417-SSH-B04 (Continued)**

**Lab Sample ID: 240-88853-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.033	J	0.069	0.018	mg/Kg	1	☼	6010B	Total/NA
Cobalt	0.54		0.35	0.041	mg/Kg	1	☼	6010B	Total/NA
Chromium	2.1		0.69	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	1.4		0.69	0.20	mg/Kg	1	☼	6010B	Total/NA
Iron	1500		6.9	2.8	mg/Kg	1	☼	6010B	Total/NA
Potassium	96	J B	350	5.4	mg/Kg	1	☼	6010B	Total/NA
Magnesium	390		69	4.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	12		0.69	0.073	mg/Kg	1	☼	6010B	Total/NA
Sodium	21	J B	69	16	mg/Kg	1	☼	6010B	Total/NA
Nickel	1.9	B	0.69	0.069	mg/Kg	1	☼	6010B	Total/NA
Vanadium	2.5		0.69	0.17	mg/Kg	1	☼	6010B	Total/NA
Zinc	4.3	B	1.7	0.48	mg/Kg	1	☼	6010B	Total/NA
Lead	1.1		0.21	0.17	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.044	J B	0.14	0.012	mg/Kg	2	☼	6020	Total/NA
Arsenic	0.60	B	0.069	0.022	mg/Kg	2	☼	6020	Total/NA
Selenium	0.22	B	0.14	0.035	mg/Kg	2	☼	6020	Total/NA
Thallium	0.018	J	0.069	0.016	mg/Kg	2	☼	6020	Total/NA
Silver	0.0038	J B	0.069	0.0012	mg/Kg	2	☼	6020	Total/NA

**Client Sample ID: S-7878-120417-SSH-B05**

**Lab Sample ID: 240-88853-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1'-Biphenyl	6.6	J	51	3.6	ug/Kg	1	☼	8270C	Total/NA
2-Methylnaphthalene	37		6.8	0.51	ug/Kg	1	☼	8270C	Total/NA
Acetophenone	10	J	100	9.4	ug/Kg	1	☼	8270C	Total/NA
Dibenzofuran	14	J	51	0.68	ug/Kg	1	☼	8270C	Total/NA
Di-n-butyl phthalate	18	J	72	15	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	8.9		6.8	0.56	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	30		6.8	0.84	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	26		6.8	0.75	ug/Kg	1	☼	8270C	Total/NA
Pyrene	7.4		6.8	0.45	ug/Kg	1	☼	8270C	Total/NA
Aluminum	1400		14	5.1	mg/Kg	1	☼	6010B	Total/NA
Barium	7.7		0.71	0.36	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.037	J	0.14	0.023	mg/Kg	1	☼	6010B	Total/NA
Calcium	1600		350	20	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.069	J	0.071	0.019	mg/Kg	1	☼	6010B	Total/NA
Cobalt	0.53		0.35	0.042	mg/Kg	1	☼	6010B	Total/NA
Chromium	2.3		0.71	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	2.3		0.71	0.20	mg/Kg	1	☼	6010B	Total/NA
Iron	1800		7.1	2.8	mg/Kg	1	☼	6010B	Total/NA
Potassium	94	J B	350	5.5	mg/Kg	1	☼	6010B	Total/NA
Magnesium	330		71	4.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	32		0.71	0.074	mg/Kg	1	☼	6010B	Total/NA
Sodium	21	J B	71	17	mg/Kg	1	☼	6010B	Total/NA
Nickel	2.0	B	0.71	0.071	mg/Kg	1	☼	6010B	Total/NA
Vanadium	2.7		0.71	0.18	mg/Kg	1	☼	6010B	Total/NA
Zinc	19	B	1.8	0.50	mg/Kg	1	☼	6010B	Total/NA
Lead	2.7		0.21	0.18	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.036	J B	0.14	0.012	mg/Kg	2	☼	6020	Total/NA
Arsenic	0.54	B	0.071	0.023	mg/Kg	2	☼	6020	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Client Sample ID: S-7878-120417-SSH-B05 (Continued)

## Lab Sample ID: 240-88853-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.24	B	0.14	0.035	mg/Kg	2	☼	6020	Total/NA
Silver	0.0085	J B	0.071	0.0012	mg/Kg	2	☼	6020	Total/NA

## Client Sample ID: S-7878-120417-SSH-B06

## Lab Sample ID: 240-88853-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	19		6.9	0.52	ug/Kg	1	☼	8270C	Total/NA
Diethyl phthalate	30	J	72	17	ug/Kg	1	☼	8270C	Total/NA
Di-n-butyl phthalate	19	J	72	16	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	15		6.9	0.85	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	13		6.9	0.76	ug/Kg	1	☼	8270C	Total/NA
Pyrene	4.9	J	6.9	0.46	ug/Kg	1	☼	8270C	Total/NA
Aluminum	1600		13	4.7	mg/Kg	1	☼	6010B	Total/NA
Barium	8.8		0.64	0.33	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.040	J	0.13	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	4500		320	18	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.056	J	0.064	0.017	mg/Kg	1	☼	6010B	Total/NA
Cobalt	0.72		0.32	0.038	mg/Kg	1	☼	6010B	Total/NA
Chromium	2.5		0.64	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	2.1		0.64	0.18	mg/Kg	1	☼	6010B	Total/NA
Iron	1900		6.4	2.6	mg/Kg	1	☼	6010B	Total/NA
Potassium	130	J B	320	5.0	mg/Kg	1	☼	6010B	Total/NA
Magnesium	990		64	4.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	23		0.64	0.068	mg/Kg	1	☼	6010B	Total/NA
Sodium	21	J B	64	15	mg/Kg	1	☼	6010B	Total/NA
Nickel	2.5	B	0.64	0.064	mg/Kg	1	☼	6010B	Total/NA
Vanadium	3.1		0.64	0.16	mg/Kg	1	☼	6010B	Total/NA
Zinc	11	B	1.6	0.45	mg/Kg	1	☼	6010B	Total/NA
Lead	1.7		0.19	0.16	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.027	J B	0.13	0.011	mg/Kg	2	☼	6020	Total/NA
Arsenic	0.75	B	0.064	0.021	mg/Kg	2	☼	6020	Total/NA
Selenium	0.29	B	0.13	0.032	mg/Kg	2	☼	6020	Total/NA
Thallium	0.021	J	0.064	0.015	mg/Kg	2	☼	6020	Total/NA
Silver	0.0064	J B	0.064	0.0011	mg/Kg	2	☼	6020	Total/NA

## Client Sample ID: S-7878-120417-SSH-B07

## Lab Sample ID: 240-88853-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	100	J	650	100	ug/Kg	1	☼	8260B	Total/NA
Di-n-butyl phthalate	20	J	72	16	ug/Kg	1	☼	8270C	Total/NA
Aroclor-1254	570		51	24	ug/Kg	1	☼	8082A	Total/NA
Aluminum	1300		15	5.5	mg/Kg	1	☼	6010B	Total/NA
Barium	8.3		0.76	0.39	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.035	J	0.15	0.025	mg/Kg	1	☼	6010B	Total/NA
Calcium	2400		380	22	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.042	J	0.076	0.020	mg/Kg	1	☼	6010B	Total/NA
Cobalt	0.65		0.38	0.044	mg/Kg	1	☼	6010B	Total/NA
Chromium	2.7		0.76	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	1.6		0.76	0.22	mg/Kg	1	☼	6010B	Total/NA
Iron	1600		7.6	3.0	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Client Sample ID: S-7878-120417-SSH-B07 (Continued)

## Lab Sample ID: 240-88853-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	120	J B	380	5.9	mg/Kg	1	☼	6010B	Total/NA
Magnesium	510		76	4.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	19		0.76	0.080	mg/Kg	1	☼	6010B	Total/NA
Sodium	18	J B	76	18	mg/Kg	1	☼	6010B	Total/NA
Nickel	2.0	B	0.76	0.076	mg/Kg	1	☼	6010B	Total/NA
Vanadium	3.0		0.76	0.19	mg/Kg	1	☼	6010B	Total/NA
Zinc	5.8	B	1.9	0.53	mg/Kg	1	☼	6010B	Total/NA
Lead	1.4		0.23	0.19	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.025	J B	0.15	0.013	mg/Kg	2	☼	6020	Total/NA
Arsenic	0.76	B	0.076	0.025	mg/Kg	2	☼	6020	Total/NA
Selenium	0.23	B	0.15	0.038	mg/Kg	2	☼	6020	Total/NA
Silver	0.0059	J B	0.076	0.0013	mg/Kg	2	☼	6020	Total/NA

## Client Sample ID: S-7878-120417-SSH-B08

## Lab Sample ID: 240-88853-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	18	J	72	15	ug/Kg	1	☼	8270C	Total/NA
Aroclor-1254	260		50	23	ug/Kg	1	☼	8082A	Total/NA
Aluminum	1100		13	4.9	mg/Kg	1	☼	6010B	Total/NA
Barium	8.0		0.67	0.34	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.033	J	0.13	0.022	mg/Kg	1	☼	6010B	Total/NA
Calcium	680		340	19	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.028	J	0.067	0.018	mg/Kg	1	☼	6010B	Total/NA
Cobalt	0.65		0.34	0.039	mg/Kg	1	☼	6010B	Total/NA
Chromium	1.8		0.67	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	1.4		0.67	0.19	mg/Kg	1	☼	6010B	Total/NA
Iron	1300		6.7	2.7	mg/Kg	1	☼	6010B	Total/NA
Potassium	99	J B	340	5.2	mg/Kg	1	☼	6010B	Total/NA
Magnesium	420		67	4.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	11		0.67	0.070	mg/Kg	1	☼	6010B	Total/NA
Nickel	1.8	B	0.67	0.067	mg/Kg	1	☼	6010B	Total/NA
Vanadium	2.4		0.67	0.17	mg/Kg	1	☼	6010B	Total/NA
Zinc	4.0	B	1.7	0.47	mg/Kg	1	☼	6010B	Total/NA
Lead	1.1		0.20	0.17	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.022	J B	0.13	0.012	mg/Kg	2	☼	6020	Total/NA
Arsenic	0.79	B	0.067	0.022	mg/Kg	2	☼	6020	Total/NA
Selenium	0.26	B	0.13	0.034	mg/Kg	2	☼	6020	Total/NA
Silver	0.0045	J B	0.067	0.0012	mg/Kg	2	☼	6020	Total/NA

## Client Sample ID: S-7878-120417-SSH-B09

## Lab Sample ID: 240-88853-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	110	J	630	100	ug/Kg	1	☼	8260B	Total/NA
1,1'-Biphenyl	7.4	J	52	3.6	ug/Kg	1	☼	8270C	Total/NA
2-Methylnaphthalene	60		6.9	0.52	ug/Kg	1	☼	8270C	Total/NA
Anthracene	3.9	J	6.9	0.81	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	12		6.9	0.61	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	12		6.9	0.36	ug/Kg	1	☼	8270C	Total/NA
Dibenzofuran	17	J	52	0.69	ug/Kg	1	☼	8270C	Total/NA
Di-n-butyl phthalate	20	J	73	16	ug/Kg	1	☼	8270C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

**Client Sample ID: S-7878-120417-SSH-B09 (Continued)**

**Lab Sample ID: 240-88853-9**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	11		6.9	0.57	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	43		6.9	0.85	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	41		6.9	0.76	ug/Kg	1	☼	8270C	Total/NA
Pyrene	11		6.9	0.46	ug/Kg	1	☼	8270C	Total/NA
Aroclor-1254	430		52	24	ug/Kg	1	☼	8082A	Total/NA
Aluminum	1700		15	5.3	mg/Kg	1	☼	6010B	Total/NA
Barium	9.5		0.74	0.38	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.073	J	0.15	0.024	mg/Kg	1	☼	6010B	Total/NA
Calcium	3500		370	21	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.047	J	0.074	0.019	mg/Kg	1	☼	6010B	Total/NA
Cobalt	0.77		0.37	0.043	mg/Kg	1	☼	6010B	Total/NA
Chromium	2.9		0.74	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	2.5		0.74	0.21	mg/Kg	1	☼	6010B	Total/NA
Iron	2600		7.4	2.9	mg/Kg	1	☼	6010B	Total/NA
Potassium	150	J B	370	5.7	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1300		74	4.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	34		0.74	0.077	mg/Kg	1	☼	6010B	Total/NA
Sodium	22	J B	74	18	mg/Kg	1	☼	6010B	Total/NA
Nickel	2.9	B	0.74	0.074	mg/Kg	1	☼	6010B	Total/NA
Vanadium	4.2		0.74	0.18	mg/Kg	1	☼	6010B	Total/NA
Zinc	9.6	B	1.8	0.52	mg/Kg	1	☼	6010B	Total/NA
Lead	1.9		0.22	0.18	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.025	J B	0.15	0.013	mg/Kg	2	☼	6020	Total/NA
Arsenic	1.2	B	0.074	0.024	mg/Kg	2	☼	6020	Total/NA
Selenium	0.31	B	0.15	0.037	mg/Kg	2	☼	6020	Total/NA
Thallium	0.020	J	0.074	0.018	mg/Kg	2	☼	6020	Total/NA
Silver	0.0072	J B	0.074	0.0013	mg/Kg	2	☼	6020	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Method Summary

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
7471A	Mercury (CVAA)	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

#### Protocol References:

EPA = US Environmental Protection Agency

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

#### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

**Client Sample ID: S-7878-120417-SSH-B01**

**Date Collected: 12/04/17 11:45**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-1**

**Matrix: Solid**

**Percent Solids: 93.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	670	U	670	110	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Benzene	45	U	45	27	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Bromodichloromethane	90	U	90	20	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Bromoform	90	U	90	26	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Bromomethane	220	U	220	31	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
2-Butanone (MEK)	670	U *	670	56	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Carbon disulfide	220	U	220	20	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Carbon tetrachloride	45	U	45	30	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Chlorobenzene	45	U	45	34	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Chloroethane	220	U	220	31	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Chloroform	45	U	45	27	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Chloromethane	220	U	220	20	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
1,1-Dichloroethane	45	U	45	35	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
1,2-Dichloroethane	45	U	45	34	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
1,1-Dichloroethene	45	U	45	40	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
1,2-Dichloropropane	45	U	45	34	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
cis-1,3-Dichloropropene	45	U	45	26	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
trans-1,3-Dichloropropene	45	U	45	17	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Ethylbenzene	45	U	45	39	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
2-Hexanone	2200	U	2200	97	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Methylene Chloride	220	U	220	73	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
4-Methyl-2-pentanone (MIBK)	2200	U	2200	45	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Styrene	45	U	45	11	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
1,1,2,2-Tetrachloroethane	45	U	45	27	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Tetrachloroethene	45	U	45	24	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Toluene	90	U	90	27	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Trichloroethene	45	U	45	42	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Vinyl chloride	36	U	36	19	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Xylenes, Total	130	U	130	31	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
1,1,1-Trichloroethane	45	U	45	31	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
1,1,2-Trichloroethane	45	U	45	26	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Cyclohexane	1100	U	1100	34	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
1,2-Dibromo-3-Chloropropane	220	U	220	54	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
1,2-Dibromoethane	220	U	220	26	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Dichlorodifluoromethane	90	U	90	25	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
cis-1,2-Dichloroethene	45	U	45	39	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
trans-1,2-Dichloroethene	45	U	45	39	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Isopropylbenzene	220	U	220	38	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Methyl acetate	1100	U	1100	84	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Methyl tert-butyl ether	220	U	220	29	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	220	U	220	26	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
1,2,4-Trichlorobenzene	220	U	220	29	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
1,2-Dichlorobenzene	90	U	90	20	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
1,3-Dichlorobenzene	90	U	90	43	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
1,4-Dichlorobenzene	90	U	90	30	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Trichlorofluoromethane	90	U	90	38	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Dibromochloromethane	45	U	45	38	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1
Methylcyclohexane	1100	U	1100	42	ug/Kg	☼	12/07/17 10:50	12/07/17 14:55	1

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# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	<i>87</i>		<i>64 - 144</i>	<i>12/07/17 10:50</i>	<i>12/07/17 14:55</i>	<i>1</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>88</i>		<i>58 - 142</i>	<i>12/07/17 10:50</i>	<i>12/07/17 14:55</i>	<i>1</i>
<i>Toluene-d8 (Surr)</i>	<i>97</i>		<i>61 - 137</i>	<i>12/07/17 10:50</i>	<i>12/07/17 14:55</i>	<i>1</i>
<i>Dibromofluoromethane (Surr)</i>	<i>90</i>		<i>31 - 155</i>	<i>12/07/17 10:50</i>	<i>12/07/17 14:55</i>	<i>1</i>

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

**Client Sample ID: S-7878-120417-SSH-B02**

**Date Collected: 12/04/17 11:55**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-2**

**Matrix: Solid**

**Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>120</b>	<b>J</b>	650	100	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Benzene	43	U	43	26	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Bromodichloromethane	86	U	86	19	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Bromoform	86	U	86	25	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Bromomethane	220	U	220	30	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
2-Butanone (MEK)	650	U *	650	54	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Carbon disulfide	220	U	220	19	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Carbon tetrachloride	43	U	43	29	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Chlorobenzene	43	U	43	32	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Chloroethane	220	U	220	30	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Chloroform	43	U	43	26	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Chloromethane	220	U	220	19	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
1,1-Dichloroethane	43	U	43	33	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
1,2-Dichloroethane	43	U	43	32	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
1,1-Dichloroethene	43	U	43	39	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
1,2-Dichloropropane	43	U	43	32	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
cis-1,3-Dichloropropene	43	U	43	25	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
trans-1,3-Dichloropropene	43	U	43	16	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Ethylbenzene	43	U	43	38	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
2-Hexanone	2200	U	2200	93	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Methylene Chloride	220	U	220	70	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
4-Methyl-2-pentanone (MIBK)	2200	U	2200	43	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Styrene	43	U	43	11	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
1,1,2,2-Tetrachloroethane	43	U	43	26	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Tetrachloroethene	43	U	43	23	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Toluene	86	U	86	26	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Trichloroethene	43	U	43	40	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Vinyl chloride	35	U	35	18	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Xylenes, Total	130	U	130	30	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
1,1,1-Trichloroethane	43	U	43	30	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
1,1,2-Trichloroethane	43	U	43	25	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Cyclohexane	1000	U	1000	32	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
1,2-Dibromo-3-Chloropropane	220	U	220	52	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
1,2-Dibromoethane	220	U	220	25	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Dichlorodifluoromethane	86	U	86	24	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
cis-1,2-Dichloroethene	43	U	43	38	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
trans-1,2-Dichloroethene	43	U	43	38	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Isopropylbenzene	220	U	220	37	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Methyl acetate	1000	U	1000	81	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Methyl tert-butyl ether	220	U	220	28	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	220	U	220	25	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
1,2,4-Trichlorobenzene	220	U	220	28	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
1,2-Dichlorobenzene	86	U	86	19	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
1,3-Dichlorobenzene	86	U	86	41	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
1,4-Dichlorobenzene	86	U	86	29	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Trichlorofluoromethane	86	U	86	37	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Dibromochloromethane	43	U	43	37	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1
Methylcyclohexane	1000	U	1000	40	ug/Kg	☼	12/07/17 10:50	12/08/17 03:03	1

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	92		64 - 144	12/07/17 10:50	12/08/17 03:03	1
<i>4-Bromofluorobenzene (Surr)</i>	94		58 - 142	12/07/17 10:50	12/08/17 03:03	1
<i>Toluene-d8 (Surr)</i>	100		61 - 137	12/07/17 10:50	12/08/17 03:03	1
<i>Dibromofluoromethane (Surr)</i>	96		31 - 155	12/07/17 10:50	12/08/17 03:03	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

**Client Sample ID: S-7878-120417-SSH-B03**

**Date Collected: 12/04/17 12:05**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-3**

**Matrix: Solid**

**Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	130	J	640	100	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Benzene	42	U	42	25	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Bromodichloromethane	85	U	85	19	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Bromoform	85	U	85	24	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Bromomethane	210	U	210	30	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
2-Butanone (MEK)	640	U *	640	53	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Carbon disulfide	210	U	210	19	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Carbon tetrachloride	42	U	42	29	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Chlorobenzene	42	U	42	32	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Chloroethane	210	U	210	30	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Chloroform	42	U	42	25	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Chloromethane	210	U	210	19	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
1,1-Dichloroethane	42	U	42	33	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
1,2-Dichloroethane	42	U	42	32	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
1,1-Dichloroethene	42	U	42	38	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
1,2-Dichloropropane	42	U	42	32	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
cis-1,3-Dichloropropene	42	U	42	24	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
trans-1,3-Dichloropropene	42	U	42	16	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Ethylbenzene	42	U	42	37	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
2-Hexanone	2100	U	2100	91	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Methylene Chloride	210	U	210	69	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
4-Methyl-2-pentanone (MIBK)	2100	U	2100	42	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Styrene	42	U	42	11	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
1,1,2,2-Tetrachloroethane	42	U	42	25	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Tetrachloroethene	42	U	42	22	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Toluene	85	U	85	25	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Trichloroethene	42	U	42	39	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Vinyl chloride	34	U	34	18	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Xylenes, Total	130	U	130	30	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
1,1,1-Trichloroethane	42	U	42	30	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
1,1,2-Trichloroethane	42	U	42	24	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Cyclohexane	1000	U	1000	32	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
1,2-Dibromo-3-Chloropropane	210	U	210	51	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
1,2-Dibromoethane	210	U	210	24	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Dichlorodifluoromethane	85	U	85	23	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
cis-1,2-Dichloroethene	42	U	42	37	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
trans-1,2-Dichloroethene	42	U	42	37	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Isopropylbenzene	210	U	210	36	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Methyl acetate	1000	U	1000	79	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Methyl tert-butyl ether	210	U	210	28	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	210	U	210	24	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
1,2,4-Trichlorobenzene	210	U	210	28	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
1,2-Dichlorobenzene	85	U	85	19	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
1,3-Dichlorobenzene	85	U	85	40	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
1,4-Dichlorobenzene	85	U	85	29	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Trichlorofluoromethane	85	U	85	36	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Dibromochloromethane	42	U	42	36	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1
Methylcyclohexane	1000	U	1000	39	ug/Kg	☼	12/07/17 10:50	12/08/17 03:26	1

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	95		64 - 144	12/07/17 10:50	12/08/17 03:26	1
<i>4-Bromofluorobenzene (Surr)</i>	94		58 - 142	12/07/17 10:50	12/08/17 03:26	1
<i>Toluene-d8 (Surr)</i>	101		61 - 137	12/07/17 10:50	12/08/17 03:26	1
<i>Dibromofluoromethane (Surr)</i>	94		31 - 155	12/07/17 10:50	12/08/17 03:26	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

**Client Sample ID: S-7878-120417-SSH-B04**

**Date Collected: 12/04/17 12:15**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-4**

**Matrix: Solid**

**Percent Solids: 96.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	100	J	600	97	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Benzene	40	U	40	24	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Bromodichloromethane	80	U	80	18	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Bromoform	80	U	80	23	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Bromomethane	200	U	200	28	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
2-Butanone (MEK)	600	U *	600	50	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Carbon disulfide	200	U	200	18	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Carbon tetrachloride	40	U	40	27	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Chlorobenzene	40	U	40	30	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Chloroethane	200	U	200	28	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Chloroform	40	U	40	24	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Chloromethane	200	U	200	18	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
1,1-Dichloroethane	40	U	40	31	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
1,2-Dichloroethane	40	U	40	30	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
1,1-Dichloroethene	40	U	40	36	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
1,2-Dichloropropane	40	U	40	30	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
cis-1,3-Dichloropropene	40	U	40	23	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
trans-1,3-Dichloropropene	40	U	40	15	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Ethylbenzene	40	U	40	35	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
2-Hexanone	2000	U	2000	86	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Methylene Chloride	200	U	200	65	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
4-Methyl-2-pentanone (MIBK)	2000	U	2000	40	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Styrene	40	U	40	10	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
1,1,2,2-Tetrachloroethane	40	U	40	24	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Tetrachloroethene	40	U	40	21	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Toluene	80	U	80	24	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Trichloroethene	40	U	40	37	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Vinyl chloride	32	U	32	17	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Xylenes, Total	120	U	120	28	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
1,1,1-Trichloroethane	40	U	40	28	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
1,1,2-Trichloroethane	40	U	40	23	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Cyclohexane	960	U	960	30	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
1,2-Dibromo-3-Chloropropane	200	U	200	48	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
1,2-Dibromoethane	200	U	200	23	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Dichlorodifluoromethane	80	U	80	22	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
cis-1,2-Dichloroethene	40	U	40	35	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
trans-1,2-Dichloroethene	40	U	40	35	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Isopropylbenzene	200	U	200	34	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Methyl acetate	960	U	960	75	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Methyl tert-butyl ether	200	U	200	26	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	200	U	200	23	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
1,2,4-Trichlorobenzene	200	U	200	26	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
1,2-Dichlorobenzene	80	U	80	18	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
1,3-Dichlorobenzene	80	U	80	38	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
1,4-Dichlorobenzene	80	U	80	27	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Trichlorofluoromethane	80	U	80	34	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Dibromochloromethane	40	U	40	34	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1
Methylcyclohexane	960	U	960	37	ug/Kg	☼	12/07/17 10:50	12/08/17 03:49	1

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	99		64 - 144	12/07/17 10:50	12/08/17 03:49	1
<i>4-Bromofluorobenzene (Surr)</i>	95		58 - 142	12/07/17 10:50	12/08/17 03:49	1
<i>Toluene-d8 (Surr)</i>	104		61 - 137	12/07/17 10:50	12/08/17 03:49	1
<i>Dibromofluoromethane (Surr)</i>	97		31 - 155	12/07/17 10:50	12/08/17 03:49	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

**Client Sample ID: S-7878-120417-SSH-B05**

**Date Collected: 12/04/17 12:25**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-5**

**Matrix: Solid**

**Percent Solids: 96.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	620	U	620	100	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Benzene	42	U	42	25	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Bromodichloromethane	83	U	83	19	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Bromoform	83	U	83	24	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Bromomethane	210	U	210	29	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
2-Butanone (MEK)	620	U *	620	52	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Carbon disulfide	210	U	210	19	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Carbon tetrachloride	42	U	42	28	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Chlorobenzene	42	U	42	31	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Chloroethane	210	U	210	29	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Chloroform	42	U	42	25	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Chloromethane	210	U	210	19	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
1,1-Dichloroethane	42	U	42	32	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
1,2-Dichloroethane	42	U	42	31	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
1,1-Dichloroethene	42	U	42	37	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
1,2-Dichloropropane	42	U	42	31	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
cis-1,3-Dichloropropene	42	U	42	24	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
trans-1,3-Dichloropropene	42	U	42	16	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Ethylbenzene	42	U	42	36	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
2-Hexanone	2100	U	2100	90	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Methylene Chloride	210	U	210	68	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
4-Methyl-2-pentanone (MIBK)	2100	U	2100	42	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Styrene	42	U	42	10	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
1,1,2,2-Tetrachloroethane	42	U	42	25	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Tetrachloroethene	42	U	42	22	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Toluene	83	U	83	25	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Trichloroethene	42	U	42	39	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Vinyl chloride	33	U	33	18	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Xylenes, Total	120	U	120	29	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
1,1,1-Trichloroethane	42	U	42	29	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
1,1,2-Trichloroethane	42	U	42	24	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Cyclohexane	1000	U	1000	31	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
1,2-Dibromo-3-Chloropropane	210	U	210	50	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
1,2-Dibromoethane	210	U	210	24	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Dichlorodifluoromethane	83	U	83	23	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
cis-1,2-Dichloroethene	42	U	42	36	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
trans-1,2-Dichloroethene	42	U	42	36	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Isopropylbenzene	210	U	210	35	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Methyl acetate	1000	U	1000	78	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Methyl tert-butyl ether	210	U	210	27	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	210	U	210	24	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
1,2,4-Trichlorobenzene	210	U	210	27	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
1,2-Dichlorobenzene	83	U	83	19	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
1,3-Dichlorobenzene	83	U	83	40	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
1,4-Dichlorobenzene	83	U	83	28	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Trichlorofluoromethane	83	U	83	35	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Dibromochloromethane	42	U	42	35	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1
Methylcyclohexane	1000	U	1000	39	ug/Kg	☼	12/07/17 10:50	12/08/17 04:11	1

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	94		64 - 144	12/07/17 10:50	12/08/17 04:11	1
<i>4-Bromofluorobenzene (Surr)</i>	93		58 - 142	12/07/17 10:50	12/08/17 04:11	1
<i>Toluene-d8 (Surr)</i>	101		61 - 137	12/07/17 10:50	12/08/17 04:11	1
<i>Dibromofluoromethane (Surr)</i>	91		31 - 155	12/07/17 10:50	12/08/17 04:11	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

**Client Sample ID: S-7878-120417-SSH-B06**

**Date Collected: 12/04/17 12:35**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-6**

**Matrix: Solid**

**Percent Solids: 95.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	650	U	650	110	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Benzene	43	U	43	26	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Bromodichloromethane	87	U	87	20	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Bromoform	87	U	87	25	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Bromomethane	220	U	220	30	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
2-Butanone (MEK)	650	U *	650	54	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Carbon disulfide	220	U	220	20	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Carbon tetrachloride	43	U	43	29	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Chlorobenzene	43	U	43	33	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Chloroethane	220	U	220	30	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Chloroform	43	U	43	26	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Chloromethane	220	U	220	20	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
1,1-Dichloroethane	43	U	43	34	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
1,2-Dichloroethane	43	U	43	33	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
1,1-Dichloroethene	43	U	43	39	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
1,2-Dichloropropane	43	U	43	33	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
cis-1,3-Dichloropropene	43	U	43	25	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
trans-1,3-Dichloropropene	43	U	43	16	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Ethylbenzene	43	U	43	38	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
2-Hexanone	2200	U	2200	93	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Methylene Chloride	220	U	220	71	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
4-Methyl-2-pentanone (MIBK)	2200	U	2200	43	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Styrene	43	U	43	11	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
1,1,2,2-Tetrachloroethane	43	U	43	26	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Tetrachloroethene	43	U	43	23	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Toluene	87	U	87	26	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Trichloroethene	43	U	43	40	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Vinyl chloride	35	U	35	18	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Xylenes, Total	130	U	130	30	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
1,1,1-Trichloroethane	43	U	43	30	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
1,1,2-Trichloroethane	43	U	43	25	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Cyclohexane	1000	U	1000	33	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
1,2-Dibromo-3-Chloropropane	220	U	220	52	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
1,2-Dibromoethane	220	U	220	25	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Dichlorodifluoromethane	87	U	87	24	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
cis-1,2-Dichloroethene	43	U	43	38	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
trans-1,2-Dichloroethene	43	U	43	38	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Isopropylbenzene	220	U	220	37	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Methyl acetate	1000	U	1000	81	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Methyl tert-butyl ether	220	U	220	28	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	220	U	220	25	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
1,2,4-Trichlorobenzene	220	U	220	28	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
1,2-Dichlorobenzene	87	U	87	20	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
1,3-Dichlorobenzene	87	U	87	41	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
1,4-Dichlorobenzene	87	U	87	29	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Trichlorofluoromethane	87	U	87	37	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Dibromochloromethane	43	U	43	37	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1
Methylcyclohexane	1000	U	1000	40	ug/Kg	☼	12/07/17 10:50	12/08/17 04:34	1

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	98		64 - 144	12/07/17 10:50	12/08/17 04:34	1
<i>4-Bromofluorobenzene (Surr)</i>	96		58 - 142	12/07/17 10:50	12/08/17 04:34	1
<i>Toluene-d8 (Surr)</i>	105		61 - 137	12/07/17 10:50	12/08/17 04:34	1
<i>Dibromofluoromethane (Surr)</i>	95		31 - 155	12/07/17 10:50	12/08/17 04:34	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

**Client Sample ID: S-7878-120417-SSH-B07**

**Date Collected: 12/04/17 12:45**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-7**

**Matrix: Solid**

**Percent Solids: 96.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	100	J	650	100	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Benzene	43	U	43	26	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Bromodichloromethane	86	U	86	19	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Bromoform	86	U	86	25	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Bromomethane	220	U	220	30	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
2-Butanone (MEK)	650	U *	650	54	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Carbon disulfide	220	U	220	19	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Carbon tetrachloride	43	U	43	29	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Chlorobenzene	43	U	43	32	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Chloroethane	220	U	220	30	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Chloroform	43	U	43	26	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Chloromethane	220	U	220	19	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
1,1-Dichloroethane	43	U	43	33	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
1,2-Dichloroethane	43	U	43	32	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
1,1-Dichloroethene	43	U	43	39	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
1,2-Dichloropropane	43	U	43	32	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
cis-1,3-Dichloropropene	43	U	43	25	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
trans-1,3-Dichloropropene	43	U	43	16	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Ethylbenzene	43	U	43	38	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
2-Hexanone	2200	U	2200	93	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Methylene Chloride	220	U	220	70	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
4-Methyl-2-pentanone (MIBK)	2200	U	2200	43	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Styrene	43	U	43	11	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
1,1,2,2-Tetrachloroethane	43	U	43	26	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Tetrachloroethene	43	U	43	23	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Toluene	86	U	86	26	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Trichloroethene	43	U	43	40	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Vinyl chloride	34	U	34	18	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Xylenes, Total	130	U	130	30	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
1,1,1-Trichloroethane	43	U	43	30	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
1,1,2-Trichloroethane	43	U	43	25	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Cyclohexane	1000	U	1000	32	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
1,2-Dibromo-3-Chloropropane	220	U	220	52	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
1,2-Dibromoethane	220	U	220	25	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Dichlorodifluoromethane	86	U	86	24	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
cis-1,2-Dichloroethene	43	U	43	38	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
trans-1,2-Dichloroethene	43	U	43	38	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Isopropylbenzene	220	U	220	37	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Methyl acetate	1000	U	1000	81	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Methyl tert-butyl ether	220	U	220	28	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	220	U	220	25	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
1,2,4-Trichlorobenzene	220	U	220	28	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
1,2-Dichlorobenzene	86	U	86	19	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
1,3-Dichlorobenzene	86	U	86	41	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
1,4-Dichlorobenzene	86	U	86	29	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Trichlorofluoromethane	86	U	86	37	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Dibromochloromethane	43	U	43	37	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1
Methylcyclohexane	1000	U	1000	40	ug/Kg	☼	12/07/17 10:50	12/08/17 04:56	1

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	93		64 - 144	12/07/17 10:50	12/08/17 04:56	1
<i>4-Bromofluorobenzene (Surr)</i>	92		58 - 142	12/07/17 10:50	12/08/17 04:56	1
<i>Toluene-d8 (Surr)</i>	100		61 - 137	12/07/17 10:50	12/08/17 04:56	1
<i>Dibromofluoromethane (Surr)</i>	92		31 - 155	12/07/17 10:50	12/08/17 04:56	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

**Client Sample ID: S-7878-120417-SSH-B08**

**Date Collected: 12/04/17 12:55**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-8**

**Matrix: Solid**

**Percent Solids: 96.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	620	U	620	99	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Benzene	41	U	41	25	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Bromodichloromethane	82	U	82	18	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Bromoform	82	U	82	24	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Bromomethane	210	U	210	29	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
2-Butanone (MEK)	620	U *	620	51	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Carbon disulfide	210	U	210	18	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Carbon tetrachloride	41	U	41	28	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Chlorobenzene	41	U	41	31	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Chloroethane	210	U	210	29	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Chloroform	41	U	41	25	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Chloromethane	210	U	210	18	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
1,1-Dichloroethane	41	U	41	32	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
1,2-Dichloroethane	41	U	41	31	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
1,1-Dichloroethene	41	U	41	37	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
1,2-Dichloropropane	41	U	41	31	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
cis-1,3-Dichloropropene	41	U	41	24	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
trans-1,3-Dichloropropene	41	U	41	15	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Ethylbenzene	41	U	41	36	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
2-Hexanone	2100	U	2100	88	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Methylene Chloride	210	U	210	67	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
4-Methyl-2-pentanone (MIBK)	2100	U	2100	41	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Styrene	41	U	41	10	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
1,1,2,2-Tetrachloroethane	41	U	41	25	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Tetrachloroethene	41	U	41	22	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Toluene	82	U	82	25	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Trichloroethene	41	U	41	38	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Vinyl chloride	33	U	33	17	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Xylenes, Total	120	U	120	29	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
1,1,1-Trichloroethane	41	U	41	29	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
1,1,2-Trichloroethane	41	U	41	24	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Cyclohexane	980	U	980	31	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
1,2-Dibromo-3-Chloropropane	210	U	210	49	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
1,2-Dibromoethane	210	U	210	24	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Dichlorodifluoromethane	82	U	82	23	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
cis-1,2-Dichloroethene	41	U	41	36	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
trans-1,2-Dichloroethene	41	U	41	36	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Isopropylbenzene	210	U	210	35	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Methyl acetate	980	U	980	77	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Methyl tert-butyl ether	210	U	210	27	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	210	U	210	24	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
1,2,4-Trichlorobenzene	210	U	210	27	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
1,2-Dichlorobenzene	82	U	82	18	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
1,3-Dichlorobenzene	82	U	82	39	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
1,4-Dichlorobenzene	82	U	82	28	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Trichlorofluoromethane	82	U	82	35	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Dibromochloromethane	41	U	41	35	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1
Methylcyclohexane	980	U	980	38	ug/Kg	☼	12/07/17 10:50	12/08/17 05:18	1

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	92		64 - 144	12/07/17 10:50	12/08/17 05:18	1
<i>4-Bromofluorobenzene (Surr)</i>	93		58 - 142	12/07/17 10:50	12/08/17 05:18	1
<i>Toluene-d8 (Surr)</i>	98		61 - 137	12/07/17 10:50	12/08/17 05:18	1
<i>Dibromofluoromethane (Surr)</i>	89		31 - 155	12/07/17 10:50	12/08/17 05:18	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

**Client Sample ID: S-7878-120417-SSH-B09**

**Date Collected: 12/04/17 13:05**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-9**

**Matrix: Solid**

**Percent Solids: 95.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	110	J	630	100	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Benzene	42	U	42	25	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Bromodichloromethane	84	U	84	19	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Bromoform	84	U	84	24	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Bromomethane	210	U	210	30	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
2-Butanone (MEK)	630	U *	630	53	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Carbon disulfide	210	U	210	19	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Carbon tetrachloride	42	U	42	29	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Chlorobenzene	42	U	42	32	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Chloroethane	210	U	210	30	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Chloroform	42	U	42	25	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Chloromethane	210	U	210	19	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
1,1-Dichloroethane	42	U	42	33	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
1,2-Dichloroethane	42	U	42	32	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
1,1-Dichloroethene	42	U	42	38	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
1,2-Dichloropropane	42	U	42	32	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
cis-1,3-Dichloropropene	42	U	42	24	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
trans-1,3-Dichloropropene	42	U	42	16	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Ethylbenzene	42	U	42	37	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
2-Hexanone	2100	U	2100	91	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Methylene Chloride	210	U	210	69	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
4-Methyl-2-pentanone (MIBK)	2100	U	2100	42	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Styrene	42	U	42	11	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
1,1,2,2-Tetrachloroethane	42	U	42	25	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Tetrachloroethene	42	U	42	22	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Toluene	84	U	84	25	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Trichloroethene	42	U	42	39	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Vinyl chloride	34	U	34	18	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Xylenes, Total	130	U	130	30	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
1,1,1-Trichloroethane	42	U	42	30	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
1,1,2-Trichloroethane	42	U	42	24	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Cyclohexane	1000	U	1000	32	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
1,2-Dibromo-3-Chloropropane	210	U	210	51	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
1,2-Dibromoethane	210	U	210	24	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Dichlorodifluoromethane	84	U	84	23	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
cis-1,2-Dichloroethene	42	U	42	37	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
trans-1,2-Dichloroethene	42	U	42	37	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Isopropylbenzene	210	U	210	36	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Methyl acetate	1000	U	1000	79	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Methyl tert-butyl ether	210	U	210	27	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	210	U	210	24	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
1,2,4-Trichlorobenzene	210	U	210	27	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
1,2-Dichlorobenzene	84	U	84	19	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
1,3-Dichlorobenzene	84	U	84	40	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
1,4-Dichlorobenzene	84	U	84	29	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Trichlorofluoromethane	84	U	84	36	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Dibromochloromethane	42	U	42	36	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1
Methylcyclohexane	1000	U	1000	39	ug/Kg	☼	12/07/17 10:50	12/08/17 05:41	1

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	<i>91</i>		<i>64 - 144</i>	<i>12/07/17 10:50</i>	<i>12/08/17 05:41</i>	<i>1</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>91</i>		<i>58 - 142</i>	<i>12/07/17 10:50</i>	<i>12/08/17 05:41</i>	<i>1</i>
<i>Toluene-d8 (Surr)</i>	<i>98</i>		<i>61 - 137</i>	<i>12/07/17 10:50</i>	<i>12/08/17 05:41</i>	<i>1</i>
<i>Dibromofluoromethane (Surr)</i>	<i>89</i>		<i>31 - 155</i>	<i>12/07/17 10:50</i>	<i>12/08/17 05:41</i>	<i>1</i>

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: S-7878-120417-SSH-B01**

**Date Collected: 12/04/17 11:45**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-1**

**Matrix: Solid**

**Percent Solids: 93.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	53	U	53	3.7	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
bis (2-chloroisopropyl) ether	110	U	110	10	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
2,4,5-Trichlorophenol	160	U	160	27	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
2,4,6-Trichlorophenol	160	U	160	9.5	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
2,4-Dichlorophenol	160	U	160	21	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
2,4-Dimethylphenol	160	U	160	21	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
2,4-Dinitrophenol	350	U	350	22	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
2,4-Dinitrotoluene	210	U	210	18	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
2,6-Dinitrotoluene	210	U	210	22	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
2-Chloronaphthalene	53	U	53	0.48	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
2-Chlorophenol	53	U	53	8.7	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
2-Methylnaphthalene	7.1	U	7.1	0.53	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
2-Methylphenol	210	U	210	12	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
2-Nitroaniline	210	U	210	9.7	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
2-Nitrophenol	53	U	53	8.8	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
3,3'-Dichlorobenzidine	110	U	110	19	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
3-Nitroaniline	210	U	210	17	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
4,6-Dinitro-2-methylphenol	160	U	160	9.8	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
4-Bromophenyl phenyl ether	53	U	53	14	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
4-Chloro-3-methylphenol	160	U	160	22	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
4-Chloroaniline	160	U	160	18	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
4-Chlorophenyl phenyl ether	53	U	53	14	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
4-Nitroaniline	210	U	210	28	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
4-Nitrophenol	350	U	350	18	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Acenaphthene	7.1	U	7.1	0.81	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Acenaphthylene	7.1	U	7.1	0.37	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Acetophenone	110	U	110	9.8	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Anthracene	7.1	U	7.1	0.83	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Atrazine	210	U *	210	9.7	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Benzaldehyde	110	U	110	13	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Benzo[a]anthracene	7.1	U	7.1	0.67	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Benzo[a]pyrene	7.1	U	7.1	0.68	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Benzo[b]fluoranthene	7.1	U	7.1	0.63	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Benzo[g,h,i]perylene	7.1	U	7.1	0.37	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Benzo[k]fluoranthene	7.1	U	7.1	0.72	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Bis(2-chloroethoxy)methane	110	U	110	23	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Bis(2-chloroethyl)ether	110	U	110	2.1	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Bis(2-ethylhexyl) phthalate	74	U	74	20	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Butyl benzyl phthalate	74	U	74	11	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Caprolactam	350	U	350	39	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Carbazole	53	U	53	29	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Chrysene	7.1	U	7.1	1.2	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Dibenz(a,h)anthracene	7.1	U	7.1	0.70	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Dibenzofuran	53	U	53	0.70	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Diethyl phthalate	74	U	74	17	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Dimethyl phthalate	74	U	74	18	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
<b>Di-n-butyl phthalate</b>	<b>21</b>	<b>J</b>	74	16	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Di-n-octyl phthalate	74	U	74	8.4	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Fluoranthene	7.1	U	7.1	0.58	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: S-7878-120417-SSH-B01**

**Date Collected: 12/04/17 11:45**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-1**

**Matrix: Solid**

**Percent Solids: 93.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	7.1	U	7.1	0.56	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Hexachlorobenzene	7.1	U	7.1	2.2	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Hexachlorobutadiene	53	U	53	6.0	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Hexachlorocyclopentadiene	350	U	350	8.6	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Hexachloroethane	53	U	53	9.6	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Indeno[1,2,3-cd]pyrene	7.1	U	7.1	0.37	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Isophorone	53	U	53	14	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Naphthalene	7.1	U	7.1	0.87	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Nitrobenzene	110	U	110	2.3	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
N-Nitrosodi-n-propylamine	53	U	53	6.7	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
N-Nitrosodiphenylamine	53	U	53	22	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Pentachlorophenol	160	U	160	9.7	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Phenol	53	U	53	7.8	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Phenanthrene	7.1	U	7.1	0.78	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
Pyrene	7.1	U	7.1	0.47	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
3 & 4 Methylphenol	430	U	430	21	ug/Kg	☼	12/06/17 10:58	12/09/17 17:14	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl (Surr)	88		32 - 120				12/06/17 10:58	12/09/17 17:14	1
2-Fluorophenol (Surr)	85		29 - 120				12/06/17 10:58	12/09/17 17:14	1
2,4,6-Tribromophenol (Surr)	46		10 - 120				12/06/17 10:58	12/09/17 17:14	1
Nitrobenzene-d5 (Surr)	89		30 - 120				12/06/17 10:58	12/09/17 17:14	1
Phenol-d5 (Surr)	86		29 - 120				12/06/17 10:58	12/09/17 17:14	1
Terphenyl-d14 (Surr)	114		41 - 120				12/06/17 10:58	12/09/17 17:14	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: S-7878-120417-SSH-B02**

**Date Collected: 12/04/17 11:55**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-2**

**Matrix: Solid**

**Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	52	U	52	3.6	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
bis (2-chloroisopropyl) ether	100	U	100	9.8	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
2,4,5-Trichlorophenol	150	U	150	26	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
2,4,6-Trichlorophenol	150	U	150	9.2	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
2,4-Dichlorophenol	150	U	150	21	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
2,4-Dimethylphenol	150	U	150	21	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
2,4-Dinitrophenol	340	U	340	22	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
2,4-Dinitrotoluene	210	U	210	18	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
2,6-Dinitrotoluene	210	U	210	22	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
2-Chloronaphthalene	52	U	52	0.46	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
2-Chlorophenol	52	U	52	8.5	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
<b>2-Methylnaphthalene</b>	<b>5.8</b>	<b>J</b>	6.9	0.52	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
2-Methylphenol	210	U	210	11	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
2-Nitroaniline	210	U	210	9.4	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
2-Nitrophenol	52	U	52	8.6	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
3,3'-Dichlorobenzidine	100	U	100	19	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
3-Nitroaniline	210	U	210	17	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
4,6-Dinitro-2-methylphenol	150	U	150	9.5	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
4-Bromophenyl phenyl ether	52	U	52	13	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
4-Chloro-3-methylphenol	150	U	150	22	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
4-Chloroaniline	150	U	150	18	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
4-Chlorophenyl phenyl ether	52	U	52	13	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
4-Nitroaniline	210	U	210	27	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
4-Nitrophenol	340	U	340	18	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Acenaphthene	6.9	U	6.9	0.79	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Acenaphthylene	6.9	U	6.9	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Acetophenone	100	U	100	9.5	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Anthracene	6.9	U	6.9	0.81	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Atrazine	210	U *	210	9.4	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Benzaldehyde	100	U	100	12	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Benzo[a]anthracene	6.9	U	6.9	0.65	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Benzo[a]pyrene	6.9	U	6.9	0.66	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Benzo[b]fluoranthene	6.9	U	6.9	0.61	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Benzo[g,h,i]perylene	6.9	U	6.9	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Benzo[k]fluoranthene	6.9	U	6.9	0.70	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Bis(2-chloroethoxy)methane	100	U	100	23	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Bis(2-chloroethyl)ether	100	U	100	2.1	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Bis(2-ethylhexyl) phthalate	72	U	72	20	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Butyl benzyl phthalate	72	U	72	10	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Caprolactam	340	U	340	38	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Carbazole	52	U	52	28	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Chrysene	6.9	U	6.9	1.1	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Dibenz(a,h)anthracene	6.9	U	6.9	0.68	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Dibenzofuran	52	U	52	0.68	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
<b>Diethyl phthalate</b>	<b>21</b>	<b>J</b>	72	17	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Dimethyl phthalate	72	U	72	18	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
<b>Di-n-butyl phthalate</b>	<b>20</b>	<b>J</b>	72	15	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Di-n-octyl phthalate	72	U	72	8.2	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Fluoranthene	6.9	U	6.9	0.57	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: S-7878-120417-SSH-B02**

**Date Collected: 12/04/17 11:55**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-2**

**Matrix: Solid**

**Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	6.9	U	6.9	0.55	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Hexachlorobenzene	6.9	U	6.9	2.2	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Hexachlorobutadiene	52	U	52	5.8	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Hexachlorocyclopentadiene	340	U	340	8.4	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Hexachloroethane	52	U	52	9.3	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Indeno[1,2,3-cd]pyrene	6.9	U	6.9	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Isophorone	52	U	52	13	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
<b>Naphthalene</b>	<b>4.3</b>	<b>J</b>	6.9	0.85	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Nitrobenzene	100	U	100	2.3	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
N-Nitrosodi-n-propylamine	52	U	52	6.5	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
N-Nitrosodiphenylamine	52	U	52	22	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Pentachlorophenol	150	U	150	9.4	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Phenol	52	U	52	7.5	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
<b>Phenanthrene</b>	<b>4.1</b>	<b>J</b>	6.9	0.75	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
Pyrene	6.9	U	6.9	0.45	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
3 & 4 Methylphenol	410	U	410	21	ug/Kg	☼	12/06/17 10:58	12/09/17 17:38	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl (Surr)	96		32 - 120				12/06/17 10:58	12/09/17 17:38	1
2-Fluorophenol (Surr)	83		29 - 120				12/06/17 10:58	12/09/17 17:38	1
2,4,6-Tribromophenol (Surr)	50		10 - 120				12/06/17 10:58	12/09/17 17:38	1
Nitrobenzene-d5 (Surr)	86		30 - 120				12/06/17 10:58	12/09/17 17:38	1
Phenol-d5 (Surr)	78		29 - 120				12/06/17 10:58	12/09/17 17:38	1
Terphenyl-d14 (Surr)	103		41 - 120				12/06/17 10:58	12/09/17 17:38	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: S-7878-120417-SSH-B03**

**Date Collected: 12/04/17 12:05**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-3**

**Matrix: Solid**

**Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	51	U	51	3.6	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
bis (2-chloroisopropyl) ether	100	U	100	9.7	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
2,4,5-Trichlorophenol	150	U	150	26	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
2,4,6-Trichlorophenol	150	U	150	9.1	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
2,4-Dichlorophenol	150	U	150	21	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
2,4-Dimethylphenol	150	U	150	21	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
2,4-Dinitrophenol	340	U	340	22	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
2,4-Dinitrotoluene	210	U	210	17	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
2,6-Dinitrotoluene	210	U	210	22	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
2-Chloronaphthalene	51	U	51	0.46	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
2-Chlorophenol	51	U	51	8.4	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
2-Methylnaphthalene	6.8	U	6.8	0.51	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
2-Methylphenol	210	U	210	11	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
2-Nitroaniline	210	U	210	9.3	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
2-Nitrophenol	51	U	51	8.5	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
3,3'-Dichlorobenzidine	100	U	100	18	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
3-Nitroaniline	210	U	210	16	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
4,6-Dinitro-2-methylphenol	150	U	150	9.4	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
4-Bromophenyl phenyl ether	51	U	51	13	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
4-Chloro-3-methylphenol	150	U	150	22	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
4-Chloroaniline	150	U	150	17	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
4-Chlorophenyl phenyl ether	51	U	51	13	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
4-Nitroaniline	210	U	210	27	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
4-Nitrophenol	340	U	340	17	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Acenaphthene	6.8	U	6.8	0.78	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Acenaphthylene	6.8	U	6.8	0.36	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Acetophenone	100	U	100	9.4	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Anthracene	6.8	U	6.8	0.80	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Atrazine	210	U *	210	9.3	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Benzaldehyde	100	U	100	12	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Benzo[a]anthracene	6.8	U	6.8	0.65	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Benzo[a]pyrene	6.8	U	6.8	0.66	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Benzo[b]fluoranthene	6.8	U	6.8	0.61	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Benzo[g,h,i]perylene	6.8	U	6.8	0.36	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Benzo[k]fluoranthene	6.8	U	6.8	0.70	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Bis(2-chloroethoxy)methane	100	U	100	23	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Bis(2-chloroethyl)ether	100	U	100	2.1	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Bis(2-ethylhexyl) phthalate	72	U	72	19	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Butyl benzyl phthalate	72	U	72	10	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Caprolactam	340	U	340	38	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Carbazole	51	U	51	28	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Chrysene	6.8	U	6.8	1.1	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Dibenz(a,h)anthracene	6.8	U	6.8	0.68	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Dibenzofuran	51	U	51	0.68	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Diethyl phthalate	72	U	72	16	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Dimethyl phthalate	72	U	72	17	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
<b>Di-n-butyl phthalate</b>	<b>19</b>	<b>J</b>	72	15	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Di-n-octyl phthalate	72	U	72	8.1	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Fluoranthene	6.8	U	6.8	0.56	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: S-7878-120417-SSH-B03**

**Date Collected: 12/04/17 12:05**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-3**

**Matrix: Solid**

**Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	6.8	U	6.8	0.54	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Hexachlorobenzene	6.8	U	6.8	2.2	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Hexachlorobutadiene	51	U	51	5.7	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Hexachlorocyclopentadiene	340	U	340	8.3	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Hexachloroethane	51	U	51	9.2	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Indeno[1,2,3-cd]pyrene	6.8	U	6.8	0.36	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Isophorone	51	U	51	13	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Naphthalene	6.8	U	6.8	0.84	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Nitrobenzene	100	U	100	2.3	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
N-Nitrosodi-n-propylamine	51	U	51	6.5	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
N-Nitrosodiphenylamine	51	U	51	22	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Pentachlorophenol	150	U	150	9.3	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Phenol	51	U	51	7.5	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Phenanthrene	6.8	U	6.8	0.75	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
Pyrene	6.8	U	6.8	0.45	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
3 & 4 Methylphenol	410	U	410	21	ug/Kg	☼	12/06/17 10:58	12/11/17 12:38	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl (Surr)	83		32 - 120				12/06/17 10:58	12/11/17 12:38	1
2-Fluorophenol (Surr)	74		29 - 120				12/06/17 10:58	12/11/17 12:38	1
2,4,6-Tribromophenol (Surr)	55		10 - 120				12/06/17 10:58	12/11/17 12:38	1
Nitrobenzene-d5 (Surr)	68		30 - 120				12/06/17 10:58	12/11/17 12:38	1
Phenol-d5 (Surr)	72		29 - 120				12/06/17 10:58	12/11/17 12:38	1
Terphenyl-d14 (Surr)	101		41 - 120				12/06/17 10:58	12/11/17 12:38	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: S-7878-120417-SSH-B04**

**Date Collected: 12/04/17 12:15**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-4**

**Matrix: Solid**

**Percent Solids: 96.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	51	U	51	3.6	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
bis (2-chloroisopropyl) ether	100	U	100	9.7	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
2,4,5-Trichlorophenol	150	U	150	25	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
2,4,6-Trichlorophenol	150	U	150	9.1	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
2,4-Dichlorophenol	150	U	150	20	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
2,4-Dimethylphenol	150	U	150	20	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
2,4-Dinitrophenol	340	U	340	21	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
2,4-Dinitrotoluene	200	U	200	17	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
2,6-Dinitrotoluene	200	U	200	21	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
2-Chloronaphthalene	51	U	51	0.46	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
2-Chlorophenol	51	U	51	8.4	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
<b>2-Methylnaphthalene</b>	<b>7.0</b>		6.8	0.51	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
2-Methylphenol	200	U	200	11	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
2-Nitroaniline	200	U	200	9.3	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
2-Nitrophenol	51	U	51	8.5	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
3,3'-Dichlorobenzidine	100	U	100	18	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
3-Nitroaniline	200	U	200	16	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
4,6-Dinitro-2-methylphenol	150	U	150	9.4	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
4-Bromophenyl phenyl ether	51	U	51	13	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
4-Chloro-3-methylphenol	150	U	150	21	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
4-Chloroaniline	150	U	150	17	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
4-Chlorophenyl phenyl ether	51	U	51	13	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
4-Nitroaniline	200	U	200	27	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
4-Nitrophenol	340	U	340	17	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Acenaphthene	6.8	U	6.8	0.78	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Acenaphthylene	6.8	U	6.8	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Acetophenone	100	U	100	9.4	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
<b>Anthracene</b>	<b>3.8</b>	<b>J</b>	6.8	0.80	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Atrazine	200	U *	200	9.3	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
<b>Benzaldehyde</b>	<b>12</b>	<b>J</b>	100	12	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Benzo[a]anthracene	6.8	U	6.8	0.64	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Benzo[a]pyrene	6.8	U	6.8	0.65	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Benzo[b]fluoranthene	6.8	U	6.8	0.60	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Benzo[g,h,i]perylene	6.8	U	6.8	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Benzo[k]fluoranthene	6.8	U	6.8	0.69	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Bis(2-chloroethoxy)methane	100	U	100	22	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Bis(2-chloroethyl)ether	100	U	100	2.0	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Bis(2-ethylhexyl) phthalate	71	U	71	19	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Butyl benzyl phthalate	71	U	71	10	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Caprolactam	340	U	340	38	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Carbazole	51	U	51	28	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Chrysene	6.8	U	6.8	1.1	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Dibenz(a,h)anthracene	6.8	U	6.8	0.67	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Dibenzofuran	51	U	51	0.67	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Diethyl phthalate	71	U	71	16	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Dimethyl phthalate	71	U	71	17	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
<b>Di-n-butyl phthalate</b>	<b>23</b>	<b>J</b>	71	15	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Di-n-octyl phthalate	71	U	71	8.1	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Fluoranthene	6.8	U	6.8	0.56	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: S-7878-120417-SSH-B04**

**Date Collected: 12/04/17 12:15**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-4**

**Matrix: Solid**

**Percent Solids: 96.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Fluorene</b>	<b>3.6</b>	<b>J</b>	6.8	0.54	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Hexachlorobenzene	6.8	U	6.8	2.1	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Hexachlorobutadiene	51	U	51	5.7	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Hexachlorocyclopentadiene	340	U	340	8.3	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Hexachloroethane	51	U	51	9.2	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Indeno[1,2,3-cd]pyrene	6.8	U	6.8	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Isophorone	51	U	51	13	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
<b>Naphthalene</b>	<b>5.6</b>	<b>J</b>	6.8	0.84	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Nitrobenzene	100	U	100	2.2	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
N-Nitrosodi-n-propylamine	51	U	51	6.4	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
N-Nitrosodiphenylamine	51	U	51	21	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Pentachlorophenol	150	U	150	9.3	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
Phenol	51	U	51	7.4	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
<b>Phenanthrene</b>	<b>6.0</b>	<b>J</b>	6.8	0.74	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
<b>Pyrene</b>	<b>5.4</b>	<b>J</b>	6.8	0.45	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
3 & 4 Methylphenol	410	U	410	20	ug/Kg	☼	12/06/17 10:58	12/09/17 18:25	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl (Surr)	94		32 - 120				12/06/17 10:58	12/09/17 18:25	1
2-Fluorophenol (Surr)	82		29 - 120				12/06/17 10:58	12/09/17 18:25	1
2,4,6-Tribromophenol (Surr)	54		10 - 120				12/06/17 10:58	12/09/17 18:25	1
Nitrobenzene-d5 (Surr)	73		30 - 120				12/06/17 10:58	12/09/17 18:25	1
Phenol-d5 (Surr)	84		29 - 120				12/06/17 10:58	12/09/17 18:25	1
Terphenyl-d14 (Surr)	105		41 - 120				12/06/17 10:58	12/09/17 18:25	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: S-7878-120417-SSH-B05**

**Date Collected: 12/04/17 12:25**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-5**

**Matrix: Solid**

**Percent Solids: 96.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1'-Biphenyl</b>	<b>6.6</b>	<b>J</b>	51	3.6	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
bis (2-chloroisopropyl) ether	100	U	100	9.8	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
2,4,5-Trichlorophenol	150	U	150	26	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
2,4,6-Trichlorophenol	150	U	150	9.1	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
2,4-Dichlorophenol	150	U	150	21	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
2,4-Dimethylphenol	150	U	150	21	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
2,4-Dinitrophenol	340	U	340	22	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
2,4-Dinitrotoluene	210	U	210	17	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
2,6-Dinitrotoluene	210	U	210	22	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
2-Chloronaphthalene	51	U	51	0.46	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
2-Chlorophenol	51	U	51	8.4	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
<b>2-Methylnaphthalene</b>	<b>37</b>		6.8	0.51	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
2-Methylphenol	210	U	210	11	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
2-Nitroaniline	210	U	210	9.3	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
2-Nitrophenol	51	U	51	8.5	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
3,3'-Dichlorobenzidine	100	U	100	18	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
3-Nitroaniline	210	U	210	16	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
4,6-Dinitro-2-methylphenol	150	U	150	9.4	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
4-Bromophenyl phenyl ether	51	U	51	13	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
4-Chloro-3-methylphenol	150	U	150	22	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
4-Chloroaniline	150	U	150	17	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
4-Chlorophenyl phenyl ether	51	U	51	13	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
4-Nitroaniline	210	U	210	27	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
4-Nitrophenol	340	U	340	17	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Acenaphthene	6.8	U	6.8	0.78	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Acenaphthylene	6.8	U	6.8	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
<b>Acetophenone</b>	<b>10</b>	<b>J</b>	100	9.4	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Anthracene	6.8	U	6.8	0.80	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Atrazine	210	U *	210	9.3	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Benzaldehyde	100	U	100	12	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Benzo[a]anthracene	6.8	U	6.8	0.65	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Benzo[a]pyrene	6.8	U	6.8	0.66	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Benzo[b]fluoranthene	6.8	U	6.8	0.61	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Benzo[g,h,i]perylene	6.8	U	6.8	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Benzo[k]fluoranthene	6.8	U	6.8	0.70	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Bis(2-chloroethoxy)methane	100	U	100	23	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Bis(2-chloroethyl)ether	100	U	100	2.1	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Bis(2-ethylhexyl) phthalate	72	U	72	20	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Butyl benzyl phthalate	72	U	72	10	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Caprolactam	340	U	340	38	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Carbazole	51	U	51	28	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Chrysene	6.8	U	6.8	1.1	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Dibenz(a,h)anthracene	6.8	U	6.8	0.68	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
<b>Dibenzofuran</b>	<b>14</b>	<b>J</b>	51	0.68	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Diethyl phthalate	72	U	72	16	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Dimethyl phthalate	72	U	72	17	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
<b>Di-n-butyl phthalate</b>	<b>18</b>	<b>J</b>	72	15	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Di-n-octyl phthalate	72	U	72	8.1	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
<b>Fluoranthene</b>	<b>8.9</b>		6.8	0.56	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: S-7878-120417-SSH-B05**

**Date Collected: 12/04/17 12:25**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-5**

**Matrix: Solid**

**Percent Solids: 96.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	6.8	U	6.8	0.54	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Hexachlorobenzene	6.8	U	6.8	2.2	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Hexachlorobutadiene	51	U	51	5.8	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Hexachlorocyclopentadiene	340	U	340	8.3	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Hexachloroethane	51	U	51	9.2	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Indeno[1,2,3-cd]pyrene	6.8	U	6.8	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Isophorone	51	U	51	13	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
<b>Naphthalene</b>	<b>30</b>		6.8	0.84	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Nitrobenzene	100	U	100	2.3	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
N-Nitrosodi-n-propylamine	51	U	51	6.5	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
N-Nitrosodiphenylamine	51	U	51	22	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Pentachlorophenol	150	U	150	9.3	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
Phenol	51	U	51	7.5	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
<b>Phenanthrene</b>	<b>26</b>		6.8	0.75	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
<b>Pyrene</b>	<b>7.4</b>		6.8	0.45	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1
3 & 4 Methylphenol	410	U	410	21	ug/Kg	☼	12/06/17 10:58	12/09/17 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	100		32 - 120	12/06/17 10:58	12/09/17 18:49	1
2-Fluorophenol (Surr)	88		29 - 120	12/06/17 10:58	12/09/17 18:49	1
2,4,6-Tribromophenol (Surr)	49		10 - 120	12/06/17 10:58	12/09/17 18:49	1
Nitrobenzene-d5 (Surr)	77		30 - 120	12/06/17 10:58	12/09/17 18:49	1
Phenol-d5 (Surr)	84		29 - 120	12/06/17 10:58	12/09/17 18:49	1
Terphenyl-d14 (Surr)	103		41 - 120	12/06/17 10:58	12/09/17 18:49	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: S-7878-120417-SSH-B06**

**Date Collected: 12/04/17 12:35**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-6**

**Matrix: Solid**

**Percent Solids: 95.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	52	U	52	3.6	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
bis (2-chloroisopropyl) ether	100	U	100	9.8	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
2,4,5-Trichlorophenol	160	U	160	26	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
2,4,6-Trichlorophenol	160	U	160	9.2	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
2,4-Dichlorophenol	160	U	160	21	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
2,4-Dimethylphenol	160	U	160	21	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
2,4-Dinitrophenol	340	U	340	22	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
2,4-Dinitrotoluene	210	U	210	18	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
2,6-Dinitrotoluene	210	U	210	22	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
2-Chloronaphthalene	52	U	52	0.47	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
2-Chlorophenol	52	U	52	8.5	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
<b>2-Methylnaphthalene</b>	<b>19</b>		6.9	0.52	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
2-Methylphenol	210	U	210	11	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
2-Nitroaniline	210	U	210	9.4	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
2-Nitrophenol	52	U	52	8.6	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
3,3'-Dichlorobenzidine	100	U	100	19	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
3-Nitroaniline	210	U	210	17	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
4,6-Dinitro-2-methylphenol	160	U	160	9.5	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
4-Bromophenyl phenyl ether	52	U	52	13	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
4-Chloro-3-methylphenol	160	U	160	22	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
4-Chloroaniline	160	U	160	18	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
4-Chlorophenyl phenyl ether	52	U	52	13	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
4-Nitroaniline	210	U	210	27	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
4-Nitrophenol	340	U	340	18	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Acenaphthene	6.9	U	6.9	0.79	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Acenaphthylene	6.9	U	6.9	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Acetophenone	100	U	100	9.5	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Anthracene	6.9	U	6.9	0.81	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Atrazine	210	U *	210	9.4	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Benzaldehyde	100	U	100	12	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Benzo[a]anthracene	6.9	U	6.9	0.65	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Benzo[a]pyrene	6.9	U	6.9	0.66	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Benzo[b]fluoranthene	6.9	U	6.9	0.61	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Benzo[g,h,i]perylene	6.9	U	6.9	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Benzo[k]fluoranthene	6.9	U	6.9	0.70	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Bis(2-chloroethoxy)methane	100	U	100	23	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Bis(2-chloroethyl)ether	100	U	100	2.1	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Bis(2-ethylhexyl) phthalate	72	U	72	20	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Butyl benzyl phthalate	72	U	72	10	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Caprolactam	340	U	340	38	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Carbazole	52	U	52	28	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Chrysene	6.9	U	6.9	1.1	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Dibenz(a,h)anthracene	6.9	U	6.9	0.68	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Dibenzofuran	52	U	52	0.68	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
<b>Diethyl phthalate</b>	<b>30</b>	<b>J</b>	72	17	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Dimethyl phthalate	72	U	72	18	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
<b>Di-n-butyl phthalate</b>	<b>19</b>	<b>J</b>	72	16	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Di-n-octyl phthalate	72	U	72	8.2	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Fluoranthene	6.9	U	6.9	0.57	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: S-7878-120417-SSH-B06**

**Date Collected: 12/04/17 12:35**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-6**

**Matrix: Solid**

**Percent Solids: 95.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	6.9	U	6.9	0.55	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Hexachlorobenzene	6.9	U	6.9	2.2	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Hexachlorobutadiene	52	U	52	5.8	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Hexachlorocyclopentadiene	340	U	340	8.4	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Hexachloroethane	52	U	52	9.3	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Indeno[1,2,3-cd]pyrene	6.9	U	6.9	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Isophorone	52	U	52	13	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
<b>Naphthalene</b>	<b>15</b>		6.9	0.85	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Nitrobenzene	100	U	100	2.3	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
N-Nitrosodi-n-propylamine	52	U	52	6.5	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
N-Nitrosodiphenylamine	52	U	52	22	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Pentachlorophenol	160	U	160	9.4	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
Phenol	52	U	52	7.6	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
<b>Phenanthrene</b>	<b>13</b>		6.9	0.76	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
<b>Pyrene</b>	<b>4.9 J</b>		6.9	0.46	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1
3 & 4 Methylphenol	410	U	410	21	ug/Kg	☼	12/06/17 10:58	12/09/17 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	98		32 - 120	12/06/17 10:58	12/09/17 19:12	1
2-Fluorophenol (Surr)	84		29 - 120	12/06/17 10:58	12/09/17 19:12	1
2,4,6-Tribromophenol (Surr)	49		10 - 120	12/06/17 10:58	12/09/17 19:12	1
Nitrobenzene-d5 (Surr)	80		30 - 120	12/06/17 10:58	12/09/17 19:12	1
Phenol-d5 (Surr)	85		29 - 120	12/06/17 10:58	12/09/17 19:12	1
Terphenyl-d14 (Surr)	112		41 - 120	12/06/17 10:58	12/09/17 19:12	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: S-7878-120417-SSH-B07**

**Date Collected: 12/04/17 12:45**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-7**

**Matrix: Solid**

**Percent Solids: 96.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	52	U	52	3.6	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
bis (2-chloroisopropyl) ether	100	U	100	9.8	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
2,4,5-Trichlorophenol	160	U	160	26	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
2,4,6-Trichlorophenol	160	U	160	9.2	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
2,4-Dichlorophenol	160	U	160	21	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
2,4-Dimethylphenol	160	U	160	21	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
2,4-Dinitrophenol	340	U	340	22	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
2,4-Dinitrotoluene	210	U	210	18	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
2,6-Dinitrotoluene	210	U	210	22	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
2-Chloronaphthalene	52	U	52	0.47	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
2-Chlorophenol	52	U	52	8.5	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
2-Methylnaphthalene	6.9	U	6.9	0.52	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
2-Methylphenol	210	U	210	11	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
2-Nitroaniline	210	U	210	9.4	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
2-Nitrophenol	52	U	52	8.6	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
3,3'-Dichlorobenzidine	100	U	100	19	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
3-Nitroaniline	210	U	210	17	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
4,6-Dinitro-2-methylphenol	160	U	160	9.5	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
4-Bromophenyl phenyl ether	52	U	52	13	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
4-Chloro-3-methylphenol	160	U	160	22	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
4-Chloroaniline	160	U	160	18	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
4-Chlorophenyl phenyl ether	52	U	52	13	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
4-Nitroaniline	210	U	210	27	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
4-Nitrophenol	340	U	340	18	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Acenaphthene	6.9	U	6.9	0.79	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Acenaphthylene	6.9	U	6.9	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Acetophenone	100	U	100	9.5	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Anthracene	6.9	U	6.9	0.81	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Atrazine	210	U *	210	9.4	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Benzaldehyde	100	U	100	12	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Benzo[a]anthracene	6.9	U	6.9	0.65	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Benzo[a]pyrene	6.9	U	6.9	0.66	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Benzo[b]fluoranthene	6.9	U	6.9	0.61	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Benzo[g,h,i]perylene	6.9	U	6.9	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Benzo[k]fluoranthene	6.9	U	6.9	0.70	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Bis(2-chloroethoxy)methane	100	U	100	23	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Bis(2-chloroethyl)ether	100	U	100	2.1	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Bis(2-ethylhexyl) phthalate	72	U	72	20	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Butyl benzyl phthalate	72	U	72	10	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Caprolactam	340	U	340	38	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Carbazole	52	U	52	28	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Chrysene	6.9	U	6.9	1.1	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Dibenz(a,h)anthracene	6.9	U	6.9	0.68	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Dibenzofuran	52	U	52	0.68	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Diethyl phthalate	72	U	72	17	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Dimethyl phthalate	72	U	72	18	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
<b>Di-n-butyl phthalate</b>	<b>20</b>	<b>J</b>	72	16	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Di-n-octyl phthalate	72	U	72	8.2	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Fluoranthene	6.9	U	6.9	0.57	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: S-7878-120417-SSH-B07**

**Date Collected: 12/04/17 12:45**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-7**

**Matrix: Solid**

**Percent Solids: 96.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	6.9	U	6.9	0.55	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Hexachlorobenzene	6.9	U	6.9	2.2	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Hexachlorobutadiene	52	U	52	5.8	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Hexachlorocyclopentadiene	340	U	340	8.4	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Hexachloroethane	52	U	52	9.3	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Indeno[1,2,3-cd]pyrene	6.9	U	6.9	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Isophorone	52	U	52	13	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Naphthalene	6.9	U	6.9	0.85	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Nitrobenzene	100	U	100	2.3	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
N-Nitrosodi-n-propylamine	52	U	52	6.5	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
N-Nitrosodiphenylamine	52	U	52	22	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Pentachlorophenol	160	U	160	9.4	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Phenol	52	U	52	7.5	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Phenanthrene	6.9	U	6.9	0.75	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
Pyrene	6.9	U	6.9	0.45	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
3 & 4 Methylphenol	410	U	410	21	ug/Kg	☼	12/06/17 10:58	12/09/17 18:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl (Surr)	97		32 - 120				12/06/17 10:58	12/09/17 18:01	1
2-Fluorophenol (Surr)	83		29 - 120				12/06/17 10:58	12/09/17 18:01	1
2,4,6-Tribromophenol (Surr)	46		10 - 120				12/06/17 10:58	12/09/17 18:01	1
Nitrobenzene-d5 (Surr)	80		30 - 120				12/06/17 10:58	12/09/17 18:01	1
Phenol-d5 (Surr)	84		29 - 120				12/06/17 10:58	12/09/17 18:01	1
Terphenyl-d14 (Surr)	107		41 - 120				12/06/17 10:58	12/09/17 18:01	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: S-7878-120417-SSH-B08**

**Date Collected: 12/04/17 12:55**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-8**

**Matrix: Solid**

**Percent Solids: 96.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	51	U	51	3.6	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
bis (2-chloroisopropyl) ether	100	U	100	9.8	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
2,4,5-Trichlorophenol	150	U	150	26	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
2,4,6-Trichlorophenol	150	U	150	9.2	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
2,4-Dichlorophenol	150	U	150	21	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
2,4-Dimethylphenol	150	U	150	21	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
2,4-Dinitrophenol	340	U	340	22	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
2,4-Dinitrotoluene	210	U	210	17	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
2,6-Dinitrotoluene	210	U	210	22	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
2-Chloronaphthalene	51	U	51	0.46	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
2-Chlorophenol	51	U	51	8.4	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
2-Methylnaphthalene	6.9	U	6.9	0.51	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
2-Methylphenol	210	U	210	11	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
2-Nitroaniline	210	U	210	9.4	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
2-Nitrophenol	51	U	51	8.5	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
3,3'-Dichlorobenzidine	100	U	100	19	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
3-Nitroaniline	210	U	210	16	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
4,6-Dinitro-2-methylphenol	150	U	150	9.5	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
4-Bromophenyl phenyl ether	51	U	51	13	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
4-Chloro-3-methylphenol	150	U	150	22	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
4-Chloroaniline	150	U	150	17	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
4-Chlorophenyl phenyl ether	51	U	51	13	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
4-Nitroaniline	210	U	210	27	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
4-Nitrophenol	340	U	340	17	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Acenaphthene	6.9	U	6.9	0.78	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Acenaphthylene	6.9	U	6.9	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Acetophenone	100	U	100	9.5	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Anthracene	6.9	U	6.9	0.80	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Atrazine	210	U *	210	9.4	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Benzaldehyde	100	U	100	12	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Benzo[a]anthracene	6.9	U	6.9	0.65	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Benzo[a]pyrene	6.9	U	6.9	0.66	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Benzo[b]fluoranthene	6.9	U	6.9	0.61	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Benzo[g,h,i]perylene	6.9	U	6.9	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Benzo[k]fluoranthene	6.9	U	6.9	0.70	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Bis(2-chloroethoxy)methane	100	U	100	23	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Bis(2-chloroethyl)ether	100	U	100	2.1	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Bis(2-ethylhexyl) phthalate	72	U	72	20	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Butyl benzyl phthalate	72	U	72	10	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Caprolactam	340	U	340	38	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Carbazole	51	U	51	28	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Chrysene	6.9	U	6.9	1.1	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Dibenz(a,h)anthracene	6.9	U	6.9	0.68	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Dibenzofuran	51	U	51	0.68	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Diethyl phthalate	72	U	72	16	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Dimethyl phthalate	72	U	72	17	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
<b>Di-n-butyl phthalate</b>	<b>18</b>	<b>J</b>	72	15	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Di-n-octyl phthalate	72	U	72	8.1	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Fluoranthene	6.9	U	6.9	0.57	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: S-7878-120417-SSH-B08**

**Date Collected: 12/04/17 12:55**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-8**

**Matrix: Solid**

**Percent Solids: 96.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	6.9	U	6.9	0.55	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Hexachlorobenzene	6.9	U	6.9	2.2	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Hexachlorobutadiene	51	U	51	5.8	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Hexachlorocyclopentadiene	340	U	340	8.3	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Hexachloroethane	51	U	51	9.3	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Indeno[1,2,3-cd]pyrene	6.9	U	6.9	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Isophorone	51	U	51	13	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Naphthalene	6.9	U	6.9	0.84	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Nitrobenzene	100	U	100	2.3	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
N-Nitrosodi-n-propylamine	51	U	51	6.5	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
N-Nitrosodiphenylamine	51	U	51	22	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Pentachlorophenol	150	U	150	9.4	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Phenol	51	U	51	7.5	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Phenanthrene	6.9	U	6.9	0.75	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
Pyrene	6.9	U	6.9	0.45	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1
3 & 4 Methylphenol	410	U	410	21	ug/Kg	☼	12/06/17 10:58	12/09/17 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	90		32 - 120	12/06/17 10:58	12/09/17 19:36	1
2-Fluorophenol (Surr)	80		29 - 120	12/06/17 10:58	12/09/17 19:36	1
2,4,6-Tribromophenol (Surr)	77		10 - 120	12/06/17 10:58	12/09/17 19:36	1
Nitrobenzene-d5 (Surr)	75		30 - 120	12/06/17 10:58	12/09/17 19:36	1
Phenol-d5 (Surr)	78		29 - 120	12/06/17 10:58	12/09/17 19:36	1
Terphenyl-d14 (Surr)	102		41 - 120	12/06/17 10:58	12/09/17 19:36	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: S-7878-120417-SSH-B09**

**Date Collected: 12/04/17 13:05**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-9**

**Matrix: Solid**

**Percent Solids: 95.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1'-Biphenyl</b>	<b>7.4</b>	<b>J</b>	52	3.6	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
bis (2-chloroisopropyl) ether	100	U	100	9.9	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
2,4,5-Trichlorophenol	160	U	160	26	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
2,4,6-Trichlorophenol	160	U	160	9.2	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
2,4-Dichlorophenol	160	U	160	21	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
2,4-Dimethylphenol	160	U	160	21	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
2,4-Dinitrophenol	340	U	340	22	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
2,4-Dinitrotoluene	210	U	210	18	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
2,6-Dinitrotoluene	210	U	210	22	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
2-Chloronaphthalene	52	U	52	0.47	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
2-Chlorophenol	52	U	52	8.5	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
<b>2-Methylnaphthalene</b>	<b>60</b>		6.9	0.52	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
2-Methylphenol	210	U	210	11	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
2-Nitroaniline	210	U	210	9.5	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
2-Nitrophenol	52	U	52	8.6	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
3,3'-Dichlorobenzidine	100	U	100	19	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
3-Nitroaniline	210	U	210	17	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
4,6-Dinitro-2-methylphenol	160	U	160	9.6	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
4-Bromophenyl phenyl ether	52	U	52	14	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
4-Chloro-3-methylphenol	160	U	160	22	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
4-Chloroaniline	160	U	160	18	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
4-Chlorophenyl phenyl ether	52	U	52	14	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
4-Nitroaniline	210	U	210	27	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
4-Nitrophenol	340	U	340	18	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Acenaphthene	6.9	U	6.9	0.79	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Acenaphthylene	6.9	U	6.9	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Acetophenone	100	U	100	9.6	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
<b>Anthracene</b>	<b>3.9</b>	<b>J</b>	6.9	0.81	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Atrazine	210	U F1 *	210	9.5	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Benzaldehyde	100	U	100	12	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Benzo[a]anthracene	6.9	U	6.9	0.65	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Benzo[a]pyrene	6.9	U	6.9	0.67	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
<b>Benzo[b]fluoranthene</b>	<b>12</b>		6.9	0.61	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
<b>Benzo[g,h,i]perylene</b>	<b>12</b>		6.9	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Benzo[k]fluoranthene	6.9	U	6.9	0.71	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Bis(2-chloroethoxy)methane	100	U	100	23	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Bis(2-chloroethyl)ether	100	U	100	2.1	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Bis(2-ethylhexyl) phthalate	73	U	73	20	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Butyl benzyl phthalate	73	U	73	10	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Caprolactam	340	U	340	38	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Carbazole	52	U	52	28	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Chrysene	6.9	U	6.9	1.1	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Dibenz(a,h)anthracene	6.9	U	6.9	0.69	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
<b>Dibenzofuran</b>	<b>17</b>	<b>J</b>	52	0.69	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Diethyl phthalate	73	U	73	17	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Dimethyl phthalate	73	U	73	18	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
<b>Di-n-butyl phthalate</b>	<b>20</b>	<b>J</b>	73	16	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Di-n-octyl phthalate	73	U	73	8.2	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
<b>Fluoranthene</b>	<b>11</b>		6.9	0.57	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: S-7878-120417-SSH-B09**

**Date Collected: 12/04/17 13:05**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-9**

**Matrix: Solid**

**Percent Solids: 95.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	6.9	U	6.9	0.55	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Hexachlorobenzene	6.9	U	6.9	2.2	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Hexachlorobutadiene	52	U	52	5.8	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Hexachlorocyclopentadiene	340	U F2 F1	340	8.4	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Hexachloroethane	52	U	52	9.4	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Indeno[1,2,3-cd]pyrene	6.9	U	6.9	0.36	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Isophorone	52	U	52	14	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
<b>Naphthalene</b>	<b>43</b>		6.9	0.85	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Nitrobenzene	100	U	100	2.3	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
N-Nitrosodi-n-propylamine	52	U	52	6.5	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
N-Nitrosodiphenylamine	52	U	52	22	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Pentachlorophenol	160	U	160	9.5	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
Phenol	52	U	52	7.6	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
<b>Phenanthrene</b>	<b>41</b>		6.9	0.76	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
<b>Pyrene</b>	<b>11</b>		6.9	0.46	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1
3 & 4 Methylphenol	420	U	420	21	ug/Kg	☼	12/06/17 10:58	12/09/17 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	90		32 - 120	12/06/17 10:58	12/09/17 12:54	1
2-Fluorophenol (Surr)	78		29 - 120	12/06/17 10:58	12/09/17 12:54	1
2,4,6-Tribromophenol (Surr)	42		10 - 120	12/06/17 10:58	12/09/17 12:54	1
Nitrobenzene-d5 (Surr)	75		30 - 120	12/06/17 10:58	12/09/17 12:54	1
Phenol-d5 (Surr)	81		29 - 120	12/06/17 10:58	12/09/17 12:54	1
Terphenyl-d14 (Surr)	110		41 - 120	12/06/17 10:58	12/09/17 12:54	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: S-7878-120417-SSH-B01**

**Date Collected: 12/04/17 11:45**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-1**

**Matrix: Solid**

**Percent Solids: 93.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	53	U	53	23	ug/Kg	☼	12/08/17 08:46	12/12/17 10:27	1
Aroclor-1221	53	U	53	25	ug/Kg	☼	12/08/17 08:46	12/12/17 10:27	1
Aroclor-1232	53	U	53	24	ug/Kg	☼	12/08/17 08:46	12/12/17 10:27	1
Aroclor-1242	53	U	53	20	ug/Kg	☼	12/08/17 08:46	12/12/17 10:27	1
Aroclor-1248	53	U	53	25	ug/Kg	☼	12/08/17 08:46	12/12/17 10:27	1
<b>Aroclor-1254</b>	<b>240</b>		53	24	ug/Kg	☼	12/08/17 08:46	12/12/17 10:27	1
Aroclor-1260	53	U	53	23	ug/Kg	☼	12/08/17 08:46	12/12/17 10:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		14 - 128	12/08/17 08:46	12/12/17 10:27	1
DCB Decachlorobiphenyl	106		10 - 132	12/08/17 08:46	12/12/17 10:27	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: S-7878-120417-SSH-B02**

**Date Collected: 12/04/17 11:55**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-2**

**Matrix: Solid**

**Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	52	U	52	23	ug/Kg	☼	12/08/17 08:46	12/12/17 10:49	1
Aroclor-1221	52	U	52	25	ug/Kg	☼	12/08/17 08:46	12/12/17 10:49	1
Aroclor-1232	52	U	52	24	ug/Kg	☼	12/08/17 08:46	12/12/17 10:49	1
Aroclor-1242	52	U	52	20	ug/Kg	☼	12/08/17 08:46	12/12/17 10:49	1
Aroclor-1248	52	U	52	25	ug/Kg	☼	12/08/17 08:46	12/12/17 10:49	1
<b>Aroclor-1254</b>	<b>120</b>		52	24	ug/Kg	☼	12/08/17 08:46	12/12/17 10:49	1
Aroclor-1260	52	U	52	23	ug/Kg	☼	12/08/17 08:46	12/12/17 10:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	100		14 - 128	12/08/17 08:46	12/12/17 10:49	1
<i>DCB Decachlorobiphenyl</i>	112		10 - 132	12/08/17 08:46	12/12/17 10:49	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: S-7878-120417-SSH-B03**

**Date Collected: 12/04/17 12:05**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-3**

**Matrix: Solid**

**Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	53	U	53	23	ug/Kg	☼	12/08/17 08:46	12/12/17 11:11	1
Aroclor-1221	53	U	53	25	ug/Kg	☼	12/08/17 08:46	12/12/17 11:11	1
Aroclor-1232	53	U	53	24	ug/Kg	☼	12/08/17 08:46	12/12/17 11:11	1
Aroclor-1242	53	U	53	20	ug/Kg	☼	12/08/17 08:46	12/12/17 11:11	1
Aroclor-1248	53	U	53	25	ug/Kg	☼	12/08/17 08:46	12/12/17 11:11	1
<b>Aroclor-1254</b>	<b>310</b>		53	24	ug/Kg	☼	12/08/17 08:46	12/12/17 11:11	1
Aroclor-1260	53	U	53	23	ug/Kg	☼	12/08/17 08:46	12/12/17 11:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	127		14 - 128	12/08/17 08:46	12/12/17 11:11	1
<i>DCB Decachlorobiphenyl</i>	143	X	10 - 132	12/08/17 08:46	12/12/17 11:11	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: S-7878-120417-SSH-B04**

**Date Collected: 12/04/17 12:15**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-4**

**Matrix: Solid**

**Percent Solids: 96.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	52	U	52	23	ug/Kg	☼	12/08/17 08:46	12/12/17 11:32	1
Aroclor-1221	52	U	52	25	ug/Kg	☼	12/08/17 08:46	12/12/17 11:32	1
Aroclor-1232	52	U	52	24	ug/Kg	☼	12/08/17 08:46	12/12/17 11:32	1
Aroclor-1242	52	U	52	20	ug/Kg	☼	12/08/17 08:46	12/12/17 11:32	1
Aroclor-1248	52	U	52	25	ug/Kg	☼	12/08/17 08:46	12/12/17 11:32	1
Aroclor-1254	52	U	52	24	ug/Kg	☼	12/08/17 08:46	12/12/17 11:32	1
Aroclor-1260	52	U	52	23	ug/Kg	☼	12/08/17 08:46	12/12/17 11:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	111		14 - 128	12/08/17 08:46	12/12/17 11:32	1
DCB Decachlorobiphenyl	122		10 - 132	12/08/17 08:46	12/12/17 11:32	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: S-7878-120417-SSH-B05**

**Date Collected: 12/04/17 12:25**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-5**

**Matrix: Solid**

**Percent Solids: 96.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	52	U	52	23	ug/Kg	☼	12/08/17 08:46	12/12/17 18:05	1
Aroclor-1221	52	U	52	25	ug/Kg	☼	12/08/17 08:46	12/12/17 18:05	1
Aroclor-1232	52	U	52	24	ug/Kg	☼	12/08/17 08:46	12/12/17 18:05	1
Aroclor-1242	52	U	52	20	ug/Kg	☼	12/08/17 08:46	12/12/17 18:05	1
Aroclor-1248	52	U	52	25	ug/Kg	☼	12/08/17 08:46	12/12/17 18:05	1
Aroclor-1254	52	U	52	24	ug/Kg	☼	12/08/17 08:46	12/12/17 18:05	1
Aroclor-1260	52	U	52	23	ug/Kg	☼	12/08/17 08:46	12/12/17 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	102		14 - 128	12/08/17 08:46	12/12/17 18:05	1
DCB Decachlorobiphenyl	146	X	10 - 132	12/08/17 08:46	12/12/17 18:05	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: S-7878-120417-SSH-B06**

**Date Collected: 12/04/17 12:35**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-6**

**Matrix: Solid**

**Percent Solids: 95.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	51	U	51	22	ug/Kg	☼	12/08/17 08:46	12/12/17 18:27	1
Aroclor-1221	51	U	51	24	ug/Kg	☼	12/08/17 08:46	12/12/17 18:27	1
Aroclor-1232	51	U	51	23	ug/Kg	☼	12/08/17 08:46	12/12/17 18:27	1
Aroclor-1242	51	U	51	19	ug/Kg	☼	12/08/17 08:46	12/12/17 18:27	1
Aroclor-1248	51	U	51	24	ug/Kg	☼	12/08/17 08:46	12/12/17 18:27	1
Aroclor-1254	51	U	51	23	ug/Kg	☼	12/08/17 08:46	12/12/17 18:27	1
Aroclor-1260	51	U	51	22	ug/Kg	☼	12/08/17 08:46	12/12/17 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	102		14 - 128	12/08/17 08:46	12/12/17 18:27	1
DCB Decachlorobiphenyl	111		10 - 132	12/08/17 08:46	12/12/17 18:27	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: S-7878-120417-SSH-B07**

**Date Collected: 12/04/17 12:45**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-7**

**Matrix: Solid**

**Percent Solids: 96.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	51	U	51	23	ug/Kg	☼	12/08/17 08:46	12/12/17 18:49	1
Aroclor-1221	51	U	51	25	ug/Kg	☼	12/08/17 08:46	12/12/17 18:49	1
Aroclor-1232	51	U	51	24	ug/Kg	☼	12/08/17 08:46	12/12/17 18:49	1
Aroclor-1242	51	U	51	20	ug/Kg	☼	12/08/17 08:46	12/12/17 18:49	1
Aroclor-1248	51	U	51	25	ug/Kg	☼	12/08/17 08:46	12/12/17 18:49	1
<b>Aroclor-1254</b>	<b>570</b>		51	24	ug/Kg	☼	12/08/17 08:46	12/12/17 18:49	1
Aroclor-1260	51	U	51	23	ug/Kg	☼	12/08/17 08:46	12/12/17 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	19		14 - 128	12/08/17 08:46	12/12/17 18:49	1
<i>DCB Decachlorobiphenyl</i>	28		10 - 132	12/08/17 08:46	12/12/17 18:49	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: S-7878-120417-SSH-B08**

**Date Collected: 12/04/17 12:55**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-8**

**Matrix: Solid**

**Percent Solids: 96.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	50	U	50	22	ug/Kg	☼	12/08/17 08:46	12/12/17 13:01	1
Aroclor-1221	50	U	50	24	ug/Kg	☼	12/08/17 08:46	12/12/17 13:01	1
Aroclor-1232	50	U	50	23	ug/Kg	☼	12/08/17 08:46	12/12/17 13:01	1
Aroclor-1242	50	U	50	19	ug/Kg	☼	12/08/17 08:46	12/12/17 13:01	1
Aroclor-1248	50	U	50	24	ug/Kg	☼	12/08/17 08:46	12/12/17 13:01	1
<b>Aroclor-1254</b>	<b>260</b>		50	23	ug/Kg	☼	12/08/17 08:46	12/12/17 13:01	1
Aroclor-1260	50	U	50	22	ug/Kg	☼	12/08/17 08:46	12/12/17 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	102		14 - 128	12/08/17 08:46	12/12/17 13:01	1
DCB Decachlorobiphenyl	109		10 - 132	12/08/17 08:46	12/12/17 13:01	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: S-7878-120417-SSH-B09**

**Date Collected: 12/04/17 13:05**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-9**

**Matrix: Solid**

**Percent Solids: 95.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	52	U	52	23	ug/Kg	☼	12/08/17 08:46	12/12/17 13:22	1
Aroclor-1221	52	U	52	25	ug/Kg	☼	12/08/17 08:46	12/12/17 13:22	1
Aroclor-1232	52	U	52	24	ug/Kg	☼	12/08/17 08:46	12/12/17 13:22	1
Aroclor-1242	52	U	52	20	ug/Kg	☼	12/08/17 08:46	12/12/17 13:22	1
Aroclor-1248	52	U	52	25	ug/Kg	☼	12/08/17 08:46	12/12/17 13:22	1
<b>Aroclor-1254</b>	<b>430</b>		52	24	ug/Kg	☼	12/08/17 08:46	12/12/17 13:22	1
Aroclor-1260	52	U	52	23	ug/Kg	☼	12/08/17 08:46	12/12/17 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	80		14 - 128	12/08/17 08:46	12/12/17 13:22	1
<i>DCB Decachlorobiphenyl</i>	98		10 - 132	12/08/17 08:46	12/12/17 13:22	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6010B - Metals (ICP)

**Client Sample ID: S-7878-120417-SSH-B01**

**Date Collected: 12/04/17 11:45**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-1**

**Matrix: Solid**

**Percent Solids: 93.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1700		17	6.2	mg/Kg	☼	12/07/17 14:00	12/08/17 11:07	1
Barium	8.0		0.86	0.44	mg/Kg	☼	12/07/17 14:00	12/08/17 11:07	1
Beryllium	0.046	J	0.17	0.028	mg/Kg	☼	12/07/17 14:00	12/08/17 11:07	1
Calcium	680		430	25	mg/Kg	☼	12/07/17 14:00	12/08/17 11:07	1
Cadmium	0.049	J	0.086	0.022	mg/Kg	☼	12/07/17 14:00	12/08/17 11:07	1
Cobalt	0.80		0.43	0.050	mg/Kg	☼	12/07/17 14:00	12/08/17 11:07	1
Chromium	2.1		0.86	0.080	mg/Kg	☼	12/07/17 14:00	12/08/17 11:07	1
Copper	2.0		0.86	0.25	mg/Kg	☼	12/07/17 14:00	12/08/17 11:07	1
Iron	1600		8.6	3.4	mg/Kg	☼	12/07/17 14:00	12/08/17 11:07	1
Potassium	110	J B	430	6.6	mg/Kg	☼	12/07/17 14:00	12/08/17 11:07	1
Magnesium	450		86	5.6	mg/Kg	☼	12/07/17 14:00	12/08/17 11:07	1
Manganese	12		0.86	0.090	mg/Kg	☼	12/07/17 14:00	12/08/17 11:07	1
Sodium	86	U	86	20	mg/Kg	☼	12/07/17 14:00	12/08/17 11:07	1
Nickel	2.4	B	0.86	0.086	mg/Kg	☼	12/07/17 14:00	12/08/17 11:07	1
Vanadium	3.4		0.86	0.21	mg/Kg	☼	12/07/17 14:00	12/08/17 11:07	1
Zinc	4.1	B	2.1	0.60	mg/Kg	☼	12/07/17 14:00	12/08/17 11:07	1
Lead	1.3		0.26	0.21	mg/Kg	☼	12/07/17 14:00	12/08/17 11:07	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6010B - Metals (ICP)

Client Sample ID: S-7878-120417-SSH-B02

Date Collected: 12/04/17 11:55

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-2

Matrix: Solid

Percent Solids: 95.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1300		14	5.1	mg/Kg	☼	12/07/17 14:00	12/08/17 15:48	1
Barium	8.2		0.71	0.36	mg/Kg	☼	12/07/17 14:00	12/08/17 15:48	1
Beryllium	0.064	J	0.14	0.023	mg/Kg	☼	12/07/17 14:00	12/08/17 15:48	1
Calcium	5400		350	20	mg/Kg	☼	12/07/17 14:00	12/08/17 15:48	1
Cadmium	0.042	J	0.071	0.019	mg/Kg	☼	12/07/17 14:00	12/08/17 15:48	1
Cobalt	0.65		0.35	0.042	mg/Kg	☼	12/07/17 14:00	12/08/17 15:48	1
Chromium	2.1		0.71	0.066	mg/Kg	☼	12/07/17 14:00	12/08/17 15:48	1
Copper	1.6		0.71	0.20	mg/Kg	☼	12/07/17 14:00	12/08/17 15:48	1
Iron	1600		7.1	2.8	mg/Kg	☼	12/07/17 14:00	12/08/17 15:48	1
Potassium	130	J B	350	5.5	mg/Kg	☼	12/07/17 14:00	12/08/17 15:48	1
Magnesium	690		71	4.6	mg/Kg	☼	12/07/17 14:00	12/08/17 15:48	1
Manganese	16		0.71	0.074	mg/Kg	☼	12/07/17 14:00	12/08/17 15:48	1
Sodium	44	J B	71	17	mg/Kg	☼	12/07/17 14:00	12/08/17 15:48	1
Nickel	2.1	B	0.71	0.071	mg/Kg	☼	12/07/17 14:00	12/08/17 15:48	1
Vanadium	2.7		0.71	0.18	mg/Kg	☼	12/07/17 14:00	12/08/17 15:48	1
Zinc	4.8	B	1.8	0.49	mg/Kg	☼	12/07/17 14:00	12/08/17 15:48	1
Lead	1.2		0.21	0.18	mg/Kg	☼	12/07/17 14:00	12/08/17 15:48	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6010B - Metals (ICP)

Client Sample ID: S-7878-120417-SSH-B03

Date Collected: 12/04/17 12:05

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-3

Matrix: Solid

Percent Solids: 95.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1400		17	6.1	mg/Kg	☼	12/07/17 14:00	12/08/17 15:53	1
Barium	9.9		0.83	0.43	mg/Kg	☼	12/07/17 14:00	12/08/17 15:53	1
Beryllium	0.17	U	0.17	0.027	mg/Kg	☼	12/07/17 14:00	12/08/17 15:53	1
Calcium	1900		420	24	mg/Kg	☼	12/07/17 14:00	12/08/17 15:53	1
Cadmium	0.047	J	0.083	0.022	mg/Kg	☼	12/07/17 14:00	12/08/17 15:53	1
Cobalt	0.75		0.42	0.049	mg/Kg	☼	12/07/17 14:00	12/08/17 15:53	1
Chromium	2.3		0.83	0.078	mg/Kg	☼	12/07/17 14:00	12/08/17 15:53	1
Copper	1.7		0.83	0.24	mg/Kg	☼	12/07/17 14:00	12/08/17 15:53	1
Iron	1600		8.3	3.3	mg/Kg	☼	12/07/17 14:00	12/08/17 15:53	1
Potassium	140	J B	420	6.5	mg/Kg	☼	12/07/17 14:00	12/08/17 15:53	1
Magnesium	990		83	5.4	mg/Kg	☼	12/07/17 14:00	12/08/17 15:53	1
Manganese	20		0.83	0.088	mg/Kg	☼	12/07/17 14:00	12/08/17 15:53	1
Sodium	32	J B	83	20	mg/Kg	☼	12/07/17 14:00	12/08/17 15:53	1
Nickel	2.2	B	0.83	0.083	mg/Kg	☼	12/07/17 14:00	12/08/17 15:53	1
Vanadium	3.7		0.83	0.21	mg/Kg	☼	12/07/17 14:00	12/08/17 15:53	1
Zinc	4.2	B	2.1	0.58	mg/Kg	☼	12/07/17 14:00	12/08/17 15:53	1
Lead	1.1		0.25	0.21	mg/Kg	☼	12/07/17 14:00	12/08/17 15:53	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6010B - Metals (ICP)

Client Sample ID: S-7878-120417-SSH-B04

Date Collected: 12/04/17 12:15

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-4

Matrix: Solid

Percent Solids: 96.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1600		14	5.0	mg/Kg	☼	12/07/17 14:00	12/08/17 15:58	1
Barium	6.8		0.69	0.35	mg/Kg	☼	12/07/17 14:00	12/08/17 15:58	1
Beryllium	0.047	J	0.14	0.022	mg/Kg	☼	12/07/17 14:00	12/08/17 15:58	1
Calcium	780		350	20	mg/Kg	☼	12/07/17 14:00	12/08/17 15:58	1
Cadmium	0.033	J	0.069	0.018	mg/Kg	☼	12/07/17 14:00	12/08/17 15:58	1
Cobalt	0.54		0.35	0.041	mg/Kg	☼	12/07/17 14:00	12/08/17 15:58	1
Chromium	2.1		0.69	0.065	mg/Kg	☼	12/07/17 14:00	12/08/17 15:58	1
Copper	1.4		0.69	0.20	mg/Kg	☼	12/07/17 14:00	12/08/17 15:58	1
Iron	1500		6.9	2.8	mg/Kg	☼	12/07/17 14:00	12/08/17 15:58	1
Potassium	96	J B	350	5.4	mg/Kg	☼	12/07/17 14:00	12/08/17 15:58	1
Magnesium	390		69	4.5	mg/Kg	☼	12/07/17 14:00	12/08/17 15:58	1
Manganese	12		0.69	0.073	mg/Kg	☼	12/07/17 14:00	12/08/17 15:58	1
Sodium	21	J B	69	16	mg/Kg	☼	12/07/17 14:00	12/08/17 15:58	1
Nickel	1.9	B	0.69	0.069	mg/Kg	☼	12/07/17 14:00	12/08/17 15:58	1
Vanadium	2.5		0.69	0.17	mg/Kg	☼	12/07/17 14:00	12/08/17 15:58	1
Zinc	4.3	B	1.7	0.48	mg/Kg	☼	12/07/17 14:00	12/08/17 15:58	1
Lead	1.1		0.21	0.17	mg/Kg	☼	12/07/17 14:00	12/08/17 15:58	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6010B - Metals (ICP)

Client Sample ID: S-7878-120417-SSH-B05

Date Collected: 12/04/17 12:25

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-5

Matrix: Solid

Percent Solids: 96.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1400		14	5.1	mg/Kg	☼	12/07/17 14:00	12/08/17 16:02	1
Barium	7.7		0.71	0.36	mg/Kg	☼	12/07/17 14:00	12/08/17 16:02	1
Beryllium	0.037	J	0.14	0.023	mg/Kg	☼	12/07/17 14:00	12/08/17 16:02	1
Calcium	1600		350	20	mg/Kg	☼	12/07/17 14:00	12/08/17 16:02	1
Cadmium	0.069	J	0.071	0.019	mg/Kg	☼	12/07/17 14:00	12/08/17 16:02	1
Cobalt	0.53		0.35	0.042	mg/Kg	☼	12/07/17 14:00	12/08/17 16:02	1
Chromium	2.3		0.71	0.066	mg/Kg	☼	12/07/17 14:00	12/08/17 16:02	1
Copper	2.3		0.71	0.20	mg/Kg	☼	12/07/17 14:00	12/08/17 16:02	1
Iron	1800		7.1	2.8	mg/Kg	☼	12/07/17 14:00	12/08/17 16:02	1
Potassium	94	J B	350	5.5	mg/Kg	☼	12/07/17 14:00	12/08/17 16:02	1
Magnesium	330		71	4.6	mg/Kg	☼	12/07/17 14:00	12/08/17 16:02	1
Manganese	32		0.71	0.074	mg/Kg	☼	12/07/17 14:00	12/08/17 16:02	1
Sodium	21	J B	71	17	mg/Kg	☼	12/07/17 14:00	12/08/17 16:02	1
Nickel	2.0	B	0.71	0.071	mg/Kg	☼	12/07/17 14:00	12/08/17 16:02	1
Vanadium	2.7		0.71	0.18	mg/Kg	☼	12/07/17 14:00	12/08/17 16:02	1
Zinc	19	B	1.8	0.50	mg/Kg	☼	12/07/17 14:00	12/08/17 16:02	1
Lead	2.7		0.21	0.18	mg/Kg	☼	12/07/17 14:00	12/08/17 16:02	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6010B - Metals (ICP)

**Client Sample ID: S-7878-120417-SSH-B06**

**Date Collected: 12/04/17 12:35**

**Date Received: 12/05/17 10:45**

**Lab Sample ID: 240-88853-6**

**Matrix: Solid**

**Percent Solids: 95.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1600		13	4.7	mg/Kg	☼	12/07/17 14:00	12/08/17 16:07	1
Barium	8.8		0.64	0.33	mg/Kg	☼	12/07/17 14:00	12/08/17 16:07	1
Beryllium	0.040	J	0.13	0.021	mg/Kg	☼	12/07/17 14:00	12/08/17 16:07	1
Calcium	4500		320	18	mg/Kg	☼	12/07/17 14:00	12/08/17 16:07	1
Cadmium	0.056	J	0.064	0.017	mg/Kg	☼	12/07/17 14:00	12/08/17 16:07	1
Cobalt	0.72		0.32	0.038	mg/Kg	☼	12/07/17 14:00	12/08/17 16:07	1
Chromium	2.5		0.64	0.060	mg/Kg	☼	12/07/17 14:00	12/08/17 16:07	1
Copper	2.1		0.64	0.18	mg/Kg	☼	12/07/17 14:00	12/08/17 16:07	1
Iron	1900		6.4	2.6	mg/Kg	☼	12/07/17 14:00	12/08/17 16:07	1
Potassium	130	J B	320	5.0	mg/Kg	☼	12/07/17 14:00	12/08/17 16:07	1
Magnesium	990		64	4.2	mg/Kg	☼	12/07/17 14:00	12/08/17 16:07	1
Manganese	23		0.64	0.068	mg/Kg	☼	12/07/17 14:00	12/08/17 16:07	1
Sodium	21	J B	64	15	mg/Kg	☼	12/07/17 14:00	12/08/17 16:07	1
Nickel	2.5	B	0.64	0.064	mg/Kg	☼	12/07/17 14:00	12/08/17 16:07	1
Vanadium	3.1		0.64	0.16	mg/Kg	☼	12/07/17 14:00	12/08/17 16:07	1
Zinc	11	B	1.6	0.45	mg/Kg	☼	12/07/17 14:00	12/08/17 16:07	1
Lead	1.7		0.19	0.16	mg/Kg	☼	12/07/17 14:00	12/08/17 16:07	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6010B - Metals (ICP)

Client Sample ID: S-7878-120417-SSH-B07

Date Collected: 12/04/17 12:45

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-7

Matrix: Solid

Percent Solids: 96.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1300		15	5.5	mg/Kg	☼	12/07/17 14:00	12/08/17 16:12	1
Barium	8.3		0.76	0.39	mg/Kg	☼	12/07/17 14:00	12/08/17 16:12	1
Beryllium	0.035	J	0.15	0.025	mg/Kg	☼	12/07/17 14:00	12/08/17 16:12	1
Calcium	2400		380	22	mg/Kg	☼	12/07/17 14:00	12/08/17 16:12	1
Cadmium	0.042	J	0.076	0.020	mg/Kg	☼	12/07/17 14:00	12/08/17 16:12	1
Cobalt	0.65		0.38	0.044	mg/Kg	☼	12/07/17 14:00	12/08/17 16:12	1
Chromium	2.7		0.76	0.071	mg/Kg	☼	12/07/17 14:00	12/08/17 16:12	1
Copper	1.6		0.76	0.22	mg/Kg	☼	12/07/17 14:00	12/08/17 16:12	1
Iron	1600		7.6	3.0	mg/Kg	☼	12/07/17 14:00	12/08/17 16:12	1
Potassium	120	J B	380	5.9	mg/Kg	☼	12/07/17 14:00	12/08/17 16:12	1
Magnesium	510		76	4.9	mg/Kg	☼	12/07/17 14:00	12/08/17 16:12	1
Manganese	19		0.76	0.080	mg/Kg	☼	12/07/17 14:00	12/08/17 16:12	1
Sodium	18	J B	76	18	mg/Kg	☼	12/07/17 14:00	12/08/17 16:12	1
Nickel	2.0	B	0.76	0.076	mg/Kg	☼	12/07/17 14:00	12/08/17 16:12	1
Vanadium	3.0		0.76	0.19	mg/Kg	☼	12/07/17 14:00	12/08/17 16:12	1
Zinc	5.8	B	1.9	0.53	mg/Kg	☼	12/07/17 14:00	12/08/17 16:12	1
Lead	1.4		0.23	0.19	mg/Kg	☼	12/07/17 14:00	12/08/17 16:12	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6010B - Metals (ICP)

Client Sample ID: S-7878-120417-SSH-B08

Date Collected: 12/04/17 12:55

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-8

Matrix: Solid

Percent Solids: 96.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1100		13	4.9	mg/Kg	☼	12/07/17 14:00	12/08/17 16:16	1
Barium	8.0		0.67	0.34	mg/Kg	☼	12/07/17 14:00	12/08/17 16:16	1
Beryllium	0.033	J	0.13	0.022	mg/Kg	☼	12/07/17 14:00	12/08/17 16:16	1
Calcium	680		340	19	mg/Kg	☼	12/07/17 14:00	12/08/17 16:16	1
Cadmium	0.028	J	0.067	0.018	mg/Kg	☼	12/07/17 14:00	12/08/17 16:16	1
Cobalt	0.65		0.34	0.039	mg/Kg	☼	12/07/17 14:00	12/08/17 16:16	1
Chromium	1.8		0.67	0.063	mg/Kg	☼	12/07/17 14:00	12/08/17 16:16	1
Copper	1.4		0.67	0.19	mg/Kg	☼	12/07/17 14:00	12/08/17 16:16	1
Iron	1300		6.7	2.7	mg/Kg	☼	12/07/17 14:00	12/08/17 16:16	1
Potassium	99	J B	340	5.2	mg/Kg	☼	12/07/17 14:00	12/08/17 16:16	1
Magnesium	420		67	4.4	mg/Kg	☼	12/07/17 14:00	12/08/17 16:16	1
Manganese	11		0.67	0.070	mg/Kg	☼	12/07/17 14:00	12/08/17 16:16	1
Sodium	67	U	67	16	mg/Kg	☼	12/07/17 14:00	12/08/17 16:16	1
Nickel	1.8	B	0.67	0.067	mg/Kg	☼	12/07/17 14:00	12/08/17 16:16	1
Vanadium	2.4		0.67	0.17	mg/Kg	☼	12/07/17 14:00	12/08/17 16:16	1
Zinc	4.0	B	1.7	0.47	mg/Kg	☼	12/07/17 14:00	12/08/17 16:16	1
Lead	1.1		0.20	0.17	mg/Kg	☼	12/07/17 14:00	12/08/17 16:16	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6010B - Metals (ICP)

Client Sample ID: S-7878-120417-SSH-B09

Date Collected: 12/04/17 13:05

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-9

Matrix: Solid

Percent Solids: 95.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1700		15	5.3	mg/Kg	☼	12/07/17 14:00	12/08/17 16:21	1
Barium	9.5		0.74	0.38	mg/Kg	☼	12/07/17 14:00	12/08/17 16:21	1
Beryllium	0.073	J	0.15	0.024	mg/Kg	☼	12/07/17 14:00	12/08/17 16:21	1
Calcium	3500		370	21	mg/Kg	☼	12/07/17 14:00	12/08/17 16:21	1
Cadmium	0.047	J	0.074	0.019	mg/Kg	☼	12/07/17 14:00	12/08/17 16:21	1
Cobalt	0.77		0.37	0.043	mg/Kg	☼	12/07/17 14:00	12/08/17 16:21	1
Chromium	2.9		0.74	0.069	mg/Kg	☼	12/07/17 14:00	12/08/17 16:21	1
Copper	2.5		0.74	0.21	mg/Kg	☼	12/07/17 14:00	12/08/17 16:21	1
Iron	2600		7.4	2.9	mg/Kg	☼	12/07/17 14:00	12/08/17 16:21	1
Potassium	150	J B	370	5.7	mg/Kg	☼	12/07/17 14:00	12/08/17 16:21	1
Magnesium	1300		74	4.8	mg/Kg	☼	12/07/17 14:00	12/08/17 16:21	1
Manganese	34		0.74	0.077	mg/Kg	☼	12/07/17 14:00	12/08/17 16:21	1
Sodium	22	J B	74	18	mg/Kg	☼	12/07/17 14:00	12/08/17 16:21	1
Nickel	2.9	B	0.74	0.074	mg/Kg	☼	12/07/17 14:00	12/08/17 16:21	1
Vanadium	4.2		0.74	0.18	mg/Kg	☼	12/07/17 14:00	12/08/17 16:21	1
Zinc	9.6	B	1.8	0.52	mg/Kg	☼	12/07/17 14:00	12/08/17 16:21	1
Lead	1.9		0.22	0.18	mg/Kg	☼	12/07/17 14:00	12/08/17 16:21	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6020 - Metals (ICP/MS)

Client Sample ID: S-7878-120417-SSH-B01

Date Collected: 12/04/17 11:45

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-1

Matrix: Solid

Percent Solids: 93.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.13	J B	0.17	0.015	mg/Kg	☼	12/07/17 14:00	12/09/17 00:10	2
Arsenic	0.88	B	0.086	0.028	mg/Kg	☼	12/07/17 14:00	12/09/17 00:10	2
Selenium	0.23	B	0.17	0.043	mg/Kg	☼	12/07/17 14:00	12/09/17 00:10	2
Thallium	0.024	J	0.086	0.020	mg/Kg	☼	12/07/17 14:00	12/09/17 00:10	2
Silver	0.0056	J B	0.086	0.0015	mg/Kg	☼	12/07/17 14:00	12/09/17 00:10	2

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6020 - Metals (ICP/MS)

Client Sample ID: S-7878-120417-SSH-B02

Date Collected: 12/04/17 11:55

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-2

Matrix: Solid

Percent Solids: 95.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.058	J B	0.14	0.012	mg/Kg	☼	12/07/17 14:00	12/09/17 00:51	2
Arsenic	0.81	B	0.071	0.023	mg/Kg	☼	12/07/17 14:00	12/09/17 00:51	2
Selenium	0.25	B	0.14	0.035	mg/Kg	☼	12/07/17 14:00	12/09/17 00:51	2
Thallium	0.018	J	0.071	0.017	mg/Kg	☼	12/07/17 14:00	12/09/17 00:51	2
Silver	0.0064	J B	0.071	0.0012	mg/Kg	☼	12/07/17 14:00	12/09/17 00:51	2

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6020 - Metals (ICP/MS)

Client Sample ID: S-7878-120417-SSH-B03

Date Collected: 12/04/17 12:05

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-3

Matrix: Solid

Percent Solids: 95.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.057	J B	0.17	0.015	mg/Kg	☼	12/07/17 14:00	12/09/17 00:55	2
Arsenic	1.1	B	0.083	0.027	mg/Kg	☼	12/07/17 14:00	12/09/17 00:55	2
Selenium	0.28	B	0.17	0.042	mg/Kg	☼	12/07/17 14:00	12/09/17 00:55	2
Thallium	0.083	U	0.083	0.020	mg/Kg	☼	12/07/17 14:00	12/09/17 00:55	2
Silver	0.0052	J B	0.083	0.0015	mg/Kg	☼	12/07/17 14:00	12/09/17 00:55	2

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6020 - Metals (ICP/MS)

Client Sample ID: S-7878-120417-SSH-B04

Date Collected: 12/04/17 12:15

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-4

Matrix: Solid

Percent Solids: 96.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.044	J B	0.14	0.012	mg/Kg	☼	12/07/17 14:00	12/09/17 01:00	2
Arsenic	0.60	B	0.069	0.022	mg/Kg	☼	12/07/17 14:00	12/09/17 01:00	2
Selenium	0.22	B	0.14	0.035	mg/Kg	☼	12/07/17 14:00	12/09/17 01:00	2
Thallium	0.018	J	0.069	0.016	mg/Kg	☼	12/07/17 14:00	12/09/17 01:00	2
Silver	0.0038	J B	0.069	0.0012	mg/Kg	☼	12/07/17 14:00	12/09/17 01:00	2

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6020 - Metals (ICP/MS)

Client Sample ID: S-7878-120417-SSH-B05

Date Collected: 12/04/17 12:25

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-5

Matrix: Solid

Percent Solids: 96.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.036	J B	0.14	0.012	mg/Kg	☼	12/07/17 14:00	12/09/17 01:05	2
Arsenic	0.54	B	0.071	0.023	mg/Kg	☼	12/07/17 14:00	12/09/17 01:05	2
Selenium	0.24	B	0.14	0.035	mg/Kg	☼	12/07/17 14:00	12/09/17 01:05	2
Thallium	0.071	U	0.071	0.017	mg/Kg	☼	12/07/17 14:00	12/09/17 01:05	2
Silver	0.0085	J B	0.071	0.0012	mg/Kg	☼	12/07/17 14:00	12/09/17 01:05	2

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6020 - Metals (ICP/MS)

Client Sample ID: S-7878-120417-SSH-B06

Date Collected: 12/04/17 12:35

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-6

Matrix: Solid

Percent Solids: 95.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.027	J B	0.13	0.011	mg/Kg	☼	12/07/17 14:00	12/09/17 01:09	2
Arsenic	0.75	B	0.064	0.021	mg/Kg	☼	12/07/17 14:00	12/09/17 01:09	2
Selenium	0.29	B	0.13	0.032	mg/Kg	☼	12/07/17 14:00	12/09/17 01:09	2
Thallium	0.021	J	0.064	0.015	mg/Kg	☼	12/07/17 14:00	12/09/17 01:09	2
Silver	0.0064	J B	0.064	0.0011	mg/Kg	☼	12/07/17 14:00	12/09/17 01:09	2

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6020 - Metals (ICP/MS)

Client Sample ID: S-7878-120417-SSH-B07

Date Collected: 12/04/17 12:45

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-7

Matrix: Solid

Percent Solids: 96.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.025	J B	0.15	0.013	mg/Kg	☼	12/07/17 14:00	12/09/17 01:14	2
Arsenic	0.76	B	0.076	0.025	mg/Kg	☼	12/07/17 14:00	12/09/17 01:14	2
Selenium	0.23	B	0.15	0.038	mg/Kg	☼	12/07/17 14:00	12/09/17 01:14	2
Thallium	0.076	U	0.076	0.018	mg/Kg	☼	12/07/17 14:00	12/09/17 01:14	2
Silver	0.0059	J B	0.076	0.0013	mg/Kg	☼	12/07/17 14:00	12/09/17 01:14	2

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6020 - Metals (ICP/MS)

Client Sample ID: S-7878-120417-SSH-B08

Date Collected: 12/04/17 12:55

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-8

Matrix: Solid

Percent Solids: 96.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.022	J B	0.13	0.012	mg/Kg	☼	12/07/17 14:00	12/09/17 01:18	2
Arsenic	0.79	B	0.067	0.022	mg/Kg	☼	12/07/17 14:00	12/09/17 01:18	2
Selenium	0.26	B	0.13	0.034	mg/Kg	☼	12/07/17 14:00	12/09/17 01:18	2
Thallium	0.067	U	0.067	0.016	mg/Kg	☼	12/07/17 14:00	12/09/17 01:18	2
Silver	0.0045	J B	0.067	0.0012	mg/Kg	☼	12/07/17 14:00	12/09/17 01:18	2

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6020 - Metals (ICP/MS)

Client Sample ID: S-7878-120417-SSH-B09

Date Collected: 12/04/17 13:05

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-9

Matrix: Solid

Percent Solids: 95.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.025	J B	0.15	0.013	mg/Kg	☼	12/07/17 14:00	12/09/17 01:23	2
Arsenic	1.2	B	0.074	0.024	mg/Kg	☼	12/07/17 14:00	12/09/17 01:23	2
Selenium	0.31	B	0.15	0.037	mg/Kg	☼	12/07/17 14:00	12/09/17 01:23	2
Thallium	0.020	J	0.074	0.018	mg/Kg	☼	12/07/17 14:00	12/09/17 01:23	2
Silver	0.0072	J B	0.074	0.0013	mg/Kg	☼	12/07/17 14:00	12/09/17 01:23	2

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 7471A - Mercury (CVAA)

Client Sample ID: S-7878-120417-SSH-B01

Date Collected: 12/04/17 11:45

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-1

Matrix: Solid

Percent Solids: 93.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041	U	0.041	0.018	mg/Kg	☼	12/07/17 16:00	12/08/17 12:07	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 7471A - Mercury (CVAA)

Client Sample ID: S-7878-120417-SSH-B02

Date Collected: 12/04/17 11:55

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-2

Matrix: Solid

Percent Solids: 95.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045	U	0.045	0.020	mg/Kg	☼	12/07/17 16:00	12/08/17 12:14	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 7471A - Mercury (CVAA)

Client Sample ID: S-7878-120417-SSH-B03

Date Collected: 12/04/17 12:05

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-3

Matrix: Solid

Percent Solids: 95.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040	U	0.040	0.018	mg/Kg	☼	12/07/17 16:00	12/08/17 12:16	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 7471A - Mercury (CVAA)

Client Sample ID: S-7878-120417-SSH-B04

Date Collected: 12/04/17 12:15

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-4

Matrix: Solid

Percent Solids: 96.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040	U	0.040	0.018	mg/Kg	☼	12/07/17 16:00	12/08/17 12:17	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 7471A - Mercury (CVAA)

Client Sample ID: S-7878-120417-SSH-B05

Date Collected: 12/04/17 12:25

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-5

Matrix: Solid

Percent Solids: 96.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041	U	0.041	0.019	mg/Kg	☼	12/07/17 16:00	12/08/17 12:19	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 7471A - Mercury (CVAA)

Client Sample ID: S-7878-120417-SSH-B06

Date Collected: 12/04/17 12:35

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-6

Matrix: Solid

Percent Solids: 95.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043	U	0.043	0.019	mg/Kg	☼	12/07/17 16:00	12/08/17 12:21	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 7471A - Mercury (CVAA)

Client Sample ID: S-7878-120417-SSH-B07

Date Collected: 12/04/17 12:45

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-7

Matrix: Solid

Percent Solids: 96.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042	U	0.042	0.019	mg/Kg	☼	12/07/17 16:00	12/08/17 12:27	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 7471A - Mercury (CVAA)

Client Sample ID: S-7878-120417-SSH-B08

Date Collected: 12/04/17 12:55

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-8

Matrix: Solid

Percent Solids: 96.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040	U	0.040	0.018	mg/Kg	☼	12/07/17 16:00	12/08/17 12:29	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 7471A - Mercury (CVAA)

Client Sample ID: S-7878-120417-SSH-B09

Date Collected: 12/04/17 13:05

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-9

Matrix: Solid

Percent Solids: 95.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042	U	0.042	0.019	mg/Kg	☼	12/07/17 16:00	12/08/17 12:31	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## General Chemistry

Client Sample ID: S-7878-120417-SSH-B01

Date Collected: 12/04/17 11:45

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-1

Matrix: Solid

Percent Solids: 93.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.4		0.1	0.1	%			12/05/17 14:43	1
Percent Moisture	6.6		0.1	0.1	%			12/05/17 14:43	1

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## General Chemistry

Client Sample ID: S-7878-120417-SSH-B02

Date Collected: 12/04/17 11:55

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-2

Matrix: Solid

Percent Solids: 95.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.9		0.1	0.1	%			12/05/17 14:43	1
Percent Moisture	4.1		0.1	0.1	%			12/05/17 14:43	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## General Chemistry

Client Sample ID: S-7878-120417-SSH-B03

Date Collected: 12/04/17 12:05

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-3

Matrix: Solid

Percent Solids: 95.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.9		0.1	0.1	%			12/05/17 14:43	1
Percent Moisture	4.1		0.1	0.1	%			12/05/17 14:43	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## General Chemistry

Client Sample ID: S-7878-120417-SSH-B04

Date Collected: 12/04/17 12:15

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-4

Matrix: Solid

Percent Solids: 96.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.5		0.1	0.1	%			12/05/17 14:43	1
Percent Moisture	3.5		0.1	0.1	%			12/05/17 14:43	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## General Chemistry

Client Sample ID: S-7878-120417-SSH-B05

Date Collected: 12/04/17 12:25

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-5

Matrix: Solid

Percent Solids: 96.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.5		0.1	0.1	%			12/05/17 14:43	1
Percent Moisture	3.5		0.1	0.1	%			12/05/17 14:43	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## General Chemistry

Client Sample ID: S-7878-120417-SSH-B06

Date Collected: 12/04/17 12:35

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-6

Matrix: Solid

Percent Solids: 95.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.7		0.1	0.1	%			12/05/17 14:43	1
Percent Moisture	4.3		0.1	0.1	%			12/05/17 14:43	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## General Chemistry

Client Sample ID: S-7878-120417-SSH-B07

Date Collected: 12/04/17 12:45

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-7

Matrix: Solid

Percent Solids: 96.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.0		0.1	0.1	%			12/05/17 14:43	1
Percent Moisture	4.0		0.1	0.1	%			12/05/17 14:43	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## General Chemistry

Client Sample ID: S-7878-120417-SSH-B08

Date Collected: 12/04/17 12:55

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-8

Matrix: Solid

Percent Solids: 96.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.3		0.1	0.1	%			12/05/17 14:43	1
Percent Moisture	3.7		0.1	0.1	%			12/05/17 14:43	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## General Chemistry

Client Sample ID: S-7878-120417-SSH-B09

Date Collected: 12/04/17 13:05

Date Received: 12/05/17 10:45

Lab Sample ID: 240-88853-9

Matrix: Solid

Percent Solids: 95.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.2		0.1	0.1	%			12/05/17 14:43	1
Percent Moisture	4.8		0.1	0.1	%			12/05/17 14:43	1

- 1
- 2
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- 13
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# QC Association Summary

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## GC/MS VOA

### Analysis Batch: 306624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88853-1	S-7878-120417-SSH-B01	Total/NA	Solid	8260B	306686
MB 240-306686/1-A	Method Blank	Total/NA	Solid	8260B	306686
LCS 240-306686/2-A	Lab Control Sample	Total/NA	Solid	8260B	306686
240-88853-1 MS	S-7878-120417-SSH-B01	Total/NA	Solid	8260B	306686
240-88853-1 MSD	S-7878-120417-SSH-B01	Total/NA	Solid	8260B	306686

### Prep Batch: 306686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88853-1	S-7878-120417-SSH-B01	Total/NA	Solid	5035	
240-88853-2	S-7878-120417-SSH-B02	Total/NA	Solid	5035	
240-88853-3	S-7878-120417-SSH-B03	Total/NA	Solid	5035	
240-88853-4	S-7878-120417-SSH-B04	Total/NA	Solid	5035	
240-88853-5	S-7878-120417-SSH-B05	Total/NA	Solid	5035	
240-88853-6	S-7878-120417-SSH-B06	Total/NA	Solid	5035	
240-88853-7	S-7878-120417-SSH-B07	Total/NA	Solid	5035	
240-88853-8	S-7878-120417-SSH-B08	Total/NA	Solid	5035	
240-88853-9	S-7878-120417-SSH-B09	Total/NA	Solid	5035	
MB 240-306686/1-A	Method Blank	Total/NA	Solid	5035	
LCS 240-306686/2-A	Lab Control Sample	Total/NA	Solid	5035	
240-88853-1 MS	S-7878-120417-SSH-B01	Total/NA	Solid	5035	
240-88853-1 MSD	S-7878-120417-SSH-B01	Total/NA	Solid	5035	

### Analysis Batch: 306775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88853-2	S-7878-120417-SSH-B02	Total/NA	Solid	8260B	306686
240-88853-3	S-7878-120417-SSH-B03	Total/NA	Solid	8260B	306686
240-88853-4	S-7878-120417-SSH-B04	Total/NA	Solid	8260B	306686
240-88853-5	S-7878-120417-SSH-B05	Total/NA	Solid	8260B	306686
240-88853-6	S-7878-120417-SSH-B06	Total/NA	Solid	8260B	306686
240-88853-7	S-7878-120417-SSH-B07	Total/NA	Solid	8260B	306686
240-88853-8	S-7878-120417-SSH-B08	Total/NA	Solid	8260B	306686
240-88853-9	S-7878-120417-SSH-B09	Total/NA	Solid	8260B	306686

## GC/MS Semi VOA

### Prep Batch: 306476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88853-1	S-7878-120417-SSH-B01	Total/NA	Solid	3540C	
240-88853-2	S-7878-120417-SSH-B02	Total/NA	Solid	3540C	
240-88853-3	S-7878-120417-SSH-B03	Total/NA	Solid	3540C	
240-88853-4	S-7878-120417-SSH-B04	Total/NA	Solid	3540C	
240-88853-5	S-7878-120417-SSH-B05	Total/NA	Solid	3540C	
240-88853-6	S-7878-120417-SSH-B06	Total/NA	Solid	3540C	
240-88853-7	S-7878-120417-SSH-B07	Total/NA	Solid	3540C	
240-88853-8	S-7878-120417-SSH-B08	Total/NA	Solid	3540C	
240-88853-9	S-7878-120417-SSH-B09	Total/NA	Solid	3540C	
MB 240-306476/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-306476/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-88853-9 MS	S-7878-120417-SSH-B09	Total/NA	Solid	3540C	
240-88853-9 MSD	S-7878-120417-SSH-B09	Total/NA	Solid	3540C	

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# QC Association Summary

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 306989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88853-1	S-7878-120417-SSH-B01	Total/NA	Solid	8270C	306476
240-88853-2	S-7878-120417-SSH-B02	Total/NA	Solid	8270C	306476
240-88853-4	S-7878-120417-SSH-B04	Total/NA	Solid	8270C	306476
240-88853-5	S-7878-120417-SSH-B05	Total/NA	Solid	8270C	306476
240-88853-6	S-7878-120417-SSH-B06	Total/NA	Solid	8270C	306476
240-88853-7	S-7878-120417-SSH-B07	Total/NA	Solid	8270C	306476
240-88853-8	S-7878-120417-SSH-B08	Total/NA	Solid	8270C	306476
240-88853-9	S-7878-120417-SSH-B09	Total/NA	Solid	8270C	306476
MB 240-306476/23-A	Method Blank	Total/NA	Solid	8270C	306476
LCS 240-306476/24-A	Lab Control Sample	Total/NA	Solid	8270C	306476
240-88853-9 MS	S-7878-120417-SSH-B09	Total/NA	Solid	8270C	306476
240-88853-9 MSD	S-7878-120417-SSH-B09	Total/NA	Solid	8270C	306476

### Analysis Batch: 307104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88853-3	S-7878-120417-SSH-B03	Total/NA	Solid	8270C	306476

## GC Semi VOA

### Prep Batch: 306846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88853-1	S-7878-120417-SSH-B01	Total/NA	Solid	3540C	
240-88853-2	S-7878-120417-SSH-B02	Total/NA	Solid	3540C	
240-88853-3	S-7878-120417-SSH-B03	Total/NA	Solid	3540C	
240-88853-4	S-7878-120417-SSH-B04	Total/NA	Solid	3540C	
240-88853-5	S-7878-120417-SSH-B05	Total/NA	Solid	3540C	
240-88853-6	S-7878-120417-SSH-B06	Total/NA	Solid	3540C	
240-88853-7	S-7878-120417-SSH-B07	Total/NA	Solid	3540C	
240-88853-8	S-7878-120417-SSH-B08	Total/NA	Solid	3540C	
240-88853-9	S-7878-120417-SSH-B09	Total/NA	Solid	3540C	
MB 240-306846/22-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-306846/23-A	Lab Control Sample	Total/NA	Solid	3540C	

### Analysis Batch: 307250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88853-1	S-7878-120417-SSH-B01	Total/NA	Solid	8082A	306846
240-88853-2	S-7878-120417-SSH-B02	Total/NA	Solid	8082A	306846
240-88853-3	S-7878-120417-SSH-B03	Total/NA	Solid	8082A	306846
240-88853-4	S-7878-120417-SSH-B04	Total/NA	Solid	8082A	306846
240-88853-5	S-7878-120417-SSH-B05	Total/NA	Solid	8082A	306846
240-88853-6	S-7878-120417-SSH-B06	Total/NA	Solid	8082A	306846
240-88853-7	S-7878-120417-SSH-B07	Total/NA	Solid	8082A	306846
240-88853-8	S-7878-120417-SSH-B08	Total/NA	Solid	8082A	306846
240-88853-9	S-7878-120417-SSH-B09	Total/NA	Solid	8082A	306846
MB 240-306846/22-A	Method Blank	Total/NA	Solid	8082A	306846
LCS 240-306846/23-A	Lab Control Sample	Total/NA	Solid	8082A	306846

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# QC Association Summary

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Metals

### Prep Batch: 306692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88853-1	S-7878-120417-SSH-B01	Total/NA	Solid	3050B	
240-88853-2	S-7878-120417-SSH-B02	Total/NA	Solid	3050B	
240-88853-3	S-7878-120417-SSH-B03	Total/NA	Solid	3050B	
240-88853-4	S-7878-120417-SSH-B04	Total/NA	Solid	3050B	
240-88853-5	S-7878-120417-SSH-B05	Total/NA	Solid	3050B	
240-88853-6	S-7878-120417-SSH-B06	Total/NA	Solid	3050B	
240-88853-7	S-7878-120417-SSH-B07	Total/NA	Solid	3050B	
240-88853-8	S-7878-120417-SSH-B08	Total/NA	Solid	3050B	
240-88853-9	S-7878-120417-SSH-B09	Total/NA	Solid	3050B	
MB 240-306692/1-A	Method Blank	Total/NA	Solid	3050B	
MB 240-306692/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 240-306692/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 240-306692/3-A ^2	Lab Control Sample	Total/NA	Solid	3050B	
240-88853-1 MS	S-7878-120417-SSH-B01	Total/NA	Solid	3050B	
240-88853-1 MS	S-7878-120417-SSH-B01	Total/NA	Solid	3050B	
240-88853-1 MSD	S-7878-120417-SSH-B01	Total/NA	Solid	3050B	
240-88853-1 MSD	S-7878-120417-SSH-B01	Total/NA	Solid	3050B	

### Prep Batch: 306700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88853-1	S-7878-120417-SSH-B01	Total/NA	Solid	7471A	
240-88853-2	S-7878-120417-SSH-B02	Total/NA	Solid	7471A	
240-88853-3	S-7878-120417-SSH-B03	Total/NA	Solid	7471A	
240-88853-4	S-7878-120417-SSH-B04	Total/NA	Solid	7471A	
240-88853-5	S-7878-120417-SSH-B05	Total/NA	Solid	7471A	
240-88853-6	S-7878-120417-SSH-B06	Total/NA	Solid	7471A	
240-88853-7	S-7878-120417-SSH-B07	Total/NA	Solid	7471A	
240-88853-8	S-7878-120417-SSH-B08	Total/NA	Solid	7471A	
240-88853-9	S-7878-120417-SSH-B09	Total/NA	Solid	7471A	
MB 240-306700/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 240-306700/2-A	Lab Control Sample	Total/NA	Solid	7471A	
240-88853-1 MS	S-7878-120417-SSH-B01	Total/NA	Solid	7471A	
240-88853-1 MSD	S-7878-120417-SSH-B01	Total/NA	Solid	7471A	

### Analysis Batch: 306880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88853-1	S-7878-120417-SSH-B01	Total/NA	Solid	6010B	306692
240-88853-2	S-7878-120417-SSH-B02	Total/NA	Solid	6010B	306692
240-88853-3	S-7878-120417-SSH-B03	Total/NA	Solid	6010B	306692
240-88853-4	S-7878-120417-SSH-B04	Total/NA	Solid	6010B	306692
240-88853-5	S-7878-120417-SSH-B05	Total/NA	Solid	6010B	306692
240-88853-6	S-7878-120417-SSH-B06	Total/NA	Solid	6010B	306692
240-88853-7	S-7878-120417-SSH-B07	Total/NA	Solid	6010B	306692
240-88853-8	S-7878-120417-SSH-B08	Total/NA	Solid	6010B	306692
240-88853-9	S-7878-120417-SSH-B09	Total/NA	Solid	6010B	306692
MB 240-306692/1-A	Method Blank	Total/NA	Solid	6010B	306692
LCS 240-306692/2-A	Lab Control Sample	Total/NA	Solid	6010B	306692
240-88853-1 MS	S-7878-120417-SSH-B01	Total/NA	Solid	6010B	306692
240-88853-1 MSD	S-7878-120417-SSH-B01	Total/NA	Solid	6010B	306692

TestAmerica Canton

# QC Association Summary

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Metals (Continued)

### Analysis Batch: 306940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88853-1	S-7878-120417-SSH-B01	Total/NA	Solid	7471A	306700
240-88853-2	S-7878-120417-SSH-B02	Total/NA	Solid	7471A	306700
240-88853-3	S-7878-120417-SSH-B03	Total/NA	Solid	7471A	306700
240-88853-4	S-7878-120417-SSH-B04	Total/NA	Solid	7471A	306700
240-88853-5	S-7878-120417-SSH-B05	Total/NA	Solid	7471A	306700
240-88853-6	S-7878-120417-SSH-B06	Total/NA	Solid	7471A	306700
240-88853-7	S-7878-120417-SSH-B07	Total/NA	Solid	7471A	306700
240-88853-8	S-7878-120417-SSH-B08	Total/NA	Solid	7471A	306700
240-88853-9	S-7878-120417-SSH-B09	Total/NA	Solid	7471A	306700
MB 240-306700/1-A	Method Blank	Total/NA	Solid	7471A	306700
LCS 240-306700/2-A	Lab Control Sample	Total/NA	Solid	7471A	306700
240-88853-1 MS	S-7878-120417-SSH-B01	Total/NA	Solid	7471A	306700
240-88853-1 MSD	S-7878-120417-SSH-B01	Total/NA	Solid	7471A	306700

### Analysis Batch: 307088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88853-1	S-7878-120417-SSH-B01	Total/NA	Solid	6020	306692
240-88853-2	S-7878-120417-SSH-B02	Total/NA	Solid	6020	306692
240-88853-3	S-7878-120417-SSH-B03	Total/NA	Solid	6020	306692
240-88853-4	S-7878-120417-SSH-B04	Total/NA	Solid	6020	306692
240-88853-5	S-7878-120417-SSH-B05	Total/NA	Solid	6020	306692
240-88853-6	S-7878-120417-SSH-B06	Total/NA	Solid	6020	306692
240-88853-7	S-7878-120417-SSH-B07	Total/NA	Solid	6020	306692
240-88853-8	S-7878-120417-SSH-B08	Total/NA	Solid	6020	306692
240-88853-9	S-7878-120417-SSH-B09	Total/NA	Solid	6020	306692
MB 240-306692/1-A ^2	Method Blank	Total/NA	Solid	6020	306692
LCS 240-306692/3-A ^2	Lab Control Sample	Total/NA	Solid	6020	306692
240-88853-1 MS	S-7878-120417-SSH-B01	Total/NA	Solid	6020	306692
240-88853-1 MSD	S-7878-120417-SSH-B01	Total/NA	Solid	6020	306692

## General Chemistry

### Analysis Batch: 306345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88853-1	S-7878-120417-SSH-B01	Total/NA	Solid	Moisture	
240-88853-2	S-7878-120417-SSH-B02	Total/NA	Solid	Moisture	
240-88853-3	S-7878-120417-SSH-B03	Total/NA	Solid	Moisture	
240-88853-4	S-7878-120417-SSH-B04	Total/NA	Solid	Moisture	
240-88853-5	S-7878-120417-SSH-B05	Total/NA	Solid	Moisture	
240-88853-6	S-7878-120417-SSH-B06	Total/NA	Solid	Moisture	
240-88853-7	S-7878-120417-SSH-B07	Total/NA	Solid	Moisture	
240-88853-8	S-7878-120417-SSH-B08	Total/NA	Solid	Moisture	
240-88853-9	S-7878-120417-SSH-B09	Total/NA	Solid	Moisture	
240-88853-3 DU	S-7878-120417-SSH-B03	Total/NA	Solid	Moisture	

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

**Lab Sample ID: MB 240-306686/1-A**  
**Matrix: Solid**  
**Analysis Batch: 306624**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 306686**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	600	U	600	97	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Benzene	40	U	40	24	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Bromodichloromethane	80	U	80	18	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Bromoform	80	U	80	23	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Bromomethane	200	U	200	28	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
2-Butanone (MEK)	600	U	600	50	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Carbon disulfide	200	U	200	18	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Carbon tetrachloride	40	U	40	27	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Chlorobenzene	40	U	40	30	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Chloroethane	200	U	200	28	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Chloroform	40	U	40	24	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Chloromethane	200	U	200	18	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
1,1-Dichloroethane	40	U	40	31	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
1,2-Dichloroethane	40	U	40	30	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
1,1-Dichloroethene	40	U	40	36	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
1,2-Dichloropropane	40	U	40	30	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
cis-1,3-Dichloropropene	40	U	40	23	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
trans-1,3-Dichloropropene	40	U	40	15	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Ethylbenzene	40	U	40	35	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
2-Hexanone	2000	U	2000	86	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Methylene Chloride	200	U	200	65	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
4-Methyl-2-pentanone (MIBK)	2000	U	2000	40	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Styrene	40	U	40	10	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
1,1,2,2-Tetrachloroethane	40	U	40	24	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Tetrachloroethene	40	U	40	21	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Toluene	80	U	80	24	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Trichloroethene	40	U	40	37	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Vinyl chloride	32	U	32	17	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Xylenes, Total	120	U	120	28	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
1,1,1-Trichloroethane	40	U	40	28	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
1,1,2-Trichloroethane	40	U	40	23	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Cyclohexane	960	U	960	30	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
1,2-Dibromo-3-Chloropropane	200	U	200	48	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
1,2-Dibromoethane	200	U	200	23	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Dichlorodifluoromethane	80	U	80	22	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
cis-1,2-Dichloroethene	40	U	40	35	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
trans-1,2-Dichloroethene	40	U	40	35	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Isopropylbenzene	200	U	200	34	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Methyl acetate	960	U	960	75	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Methyl tert-butyl ether	200	U	200	26	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	200	U	200	23	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
1,2,4-Trichlorobenzene	200	U	200	26	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
1,2-Dichlorobenzene	80	U	80	18	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
1,3-Dichlorobenzene	80	U	80	38	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
1,4-Dichlorobenzene	80	U	80	27	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Trichlorofluoromethane	80	U	80	34	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Dibromochloromethane	40	U	40	34	ug/Kg		12/07/17 10:50	12/07/17 13:24	1
Methylcyclohexane	960	U	960	37	ug/Kg		12/07/17 10:50	12/07/17 13:24	1

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	84		64 - 144	12/07/17 10:50	12/07/17 13:24	1
4-Bromofluorobenzene (Surr)	83		58 - 142	12/07/17 10:50	12/07/17 13:24	1
Toluene-d8 (Surr)	88		61 - 137	12/07/17 10:50	12/07/17 13:24	1
Dibromofluoromethane (Surr)	85		31 - 155	12/07/17 10:50	12/07/17 13:24	1

**Lab Sample ID: LCS 240-306686/2-A**  
**Matrix: Solid**  
**Analysis Batch: 306624**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 306686**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acetone	2000	2170		ug/Kg		108	24 - 125
Benzene	1000	1000		ug/Kg		100	77 - 120
Bromodichloromethane	1000	789		ug/Kg		79	61 - 132
Bromoform	1000	584		ug/Kg		58	40 - 140
Bromomethane	1000	523		ug/Kg		52	10 - 153
2-Butanone (MEK)	2000	2580 *		ug/Kg		129	51 - 120
Carbon disulfide	1000	1020		ug/Kg		102	17 - 163
Carbon tetrachloride	1000	699		ug/Kg		70	43 - 144
Chlorobenzene	1000	955		ug/Kg		96	76 - 120
Chloroethane	1000	648		ug/Kg		65	10 - 166
Chloroform	1000	975		ug/Kg		98	74 - 120
Chloromethane	1000	971		ug/Kg		97	41 - 124
1,1-Dichloroethane	1000	1000		ug/Kg		100	72 - 120
1,2-Dichloroethane	1000	988		ug/Kg		99	71 - 120
1,1-Dichloroethene	1000	925		ug/Kg		93	58 - 130
1,2-Dichloropropane	1000	1060		ug/Kg		106	78 - 122
cis-1,3-Dichloropropene	1000	872		ug/Kg		87	66 - 126
trans-1,3-Dichloropropene	1000	808		ug/Kg		81	55 - 121
Ethylbenzene	1000	982		ug/Kg		98	76 - 120
2-Hexanone	2000	2340		ug/Kg		117	52 - 129
Methylene Chloride	1000	922		ug/Kg		92	64 - 126
4-Methyl-2-pentanone (MIBK)	2000	2150		ug/Kg		107	65 - 131
Styrene	1000	976		ug/Kg		98	80 - 120
1,1,2,2-Tetrachloroethane	1000	945		ug/Kg		95	78 - 120
Tetrachloroethene	1000	930		ug/Kg		93	68 - 122
Toluene	1000	978		ug/Kg		98	74 - 120
Trichloroethene	1000	929		ug/Kg		93	73 - 123
Vinyl chloride	1000	883		ug/Kg		88	49 - 131
Xylenes, Total	2000	1950		ug/Kg		97	78 - 120
1,1,1-Trichloroethane	1000	883		ug/Kg		88	60 - 136
1,1,2-Trichloroethane	1000	1030		ug/Kg		103	80 - 120
Cyclohexane	1000	861 J		ug/Kg		86	66 - 129
1,2-Dibromo-3-Chloropropane	1000	661		ug/Kg		66	40 - 133
1,2-Dibromoethane	1000	927		ug/Kg		93	80 - 120
Dichlorodifluoromethane	1000	790		ug/Kg		79	15 - 127
cis-1,2-Dichloroethene	1000	963		ug/Kg		96	78 - 120
trans-1,2-Dichloroethene	1000	908		ug/Kg		91	74 - 124
Isopropylbenzene	1000	969		ug/Kg		97	76 - 124
Methyl acetate	2000	2140		ug/Kg		107	63 - 126
Methyl tert-butyl ether	1000	1000		ug/Kg		100	68 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane	1000	853		ug/Kg		85	64 - 125
1,2,4-Trichlorobenzene	1000	829		ug/Kg		83	60 - 124
1,2-Dichlorobenzene	1000	923		ug/Kg		92	75 - 120

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

**Lab Sample ID: LCS 240-306686/2-A**  
**Matrix: Solid**  
**Analysis Batch: 306624**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 306686**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,3-Dichlorobenzene	1000	918		ug/Kg		92	72 - 120
1,4-Dichlorobenzene	1000	880		ug/Kg		88	71 - 120
Trichlorofluoromethane	1000	923		ug/Kg		92	28 - 152
Dibromochloromethane	1000	673		ug/Kg		67	46 - 125
Methylcyclohexane	1000	799	J	ug/Kg		80	71 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		64 - 144
4-Bromofluorobenzene (Surr)	89		58 - 142
Toluene-d8 (Surr)	93		61 - 137
Dibromofluoromethane (Surr)	91		31 - 155

**Lab Sample ID: 240-88853-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 306624**

**Client Sample ID: S-7878-120417-SSH-B01**  
**Prep Type: Total/NA**  
**Prep Batch: 306686**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acetone	670	U	2140	2480		ug/Kg	☼	116	15 - 127
Benzene	45	U	1070	1130		ug/Kg	☼	105	33 - 127
Bromodichloromethane	90	U	1070	844		ug/Kg	☼	79	22 - 127
Bromoform	90	U	1070	555		ug/Kg	☼	52	10 - 120
Bromomethane	220	U	1070	643		ug/Kg	☼	60	13 - 138
2-Butanone (MEK)	670	U *	2140	2600		ug/Kg	☼	122	29 - 127
Carbon disulfide	220	U	1070	1140		ug/Kg	☼	106	15 - 131
Carbon tetrachloride	45	U	1070	740		ug/Kg	☼	69	17 - 127
Chlorobenzene	45	U	1070	1090		ug/Kg	☼	102	15 - 122
Chloroethane	220	U	1070	985		ug/Kg	☼	92	15 - 148
Chloroform	45	U	1070	1090		ug/Kg	☼	102	41 - 121
Chloromethane	220	U	1070	1070		ug/Kg	☼	100	33 - 122
1,1-Dichloroethane	45	U	1070	1130		ug/Kg	☼	106	41 - 122
1,2-Dichloroethane	45	U	1070	1100		ug/Kg	☼	103	35 - 122
1,1-Dichloroethene	45	U	1070	1090		ug/Kg	☼	102	30 - 139
1,2-Dichloropropane	45	U	1070	1210		ug/Kg	☼	113	38 - 130
cis-1,3-Dichloropropene	45	U	1070	928		ug/Kg	☼	87	13 - 127
trans-1,3-Dichloropropene	45	U	1070	862		ug/Kg	☼	81	11 - 120
Ethylbenzene	45	U	1070	1100		ug/Kg	☼	103	18 - 126
2-Hexanone	2200	U	2140	2270	J	ug/Kg	☼	106	21 - 136
Methylene Chloride	220	U	1070	1120		ug/Kg	☼	105	34 - 134
4-Methyl-2-pentanone (MIBK)	2200	U	2140	2200	J	ug/Kg	☼	103	16 - 164
Styrene	45	U	1070	1130		ug/Kg	☼	106	10 - 128
1,1,2,2-Tetrachloroethane	45	U	1070	1030		ug/Kg	☼	96	16 - 157
Tetrachloroethene	45	U	1070	1060		ug/Kg	☼	100	17 - 126
Toluene	90	U	1070	1110		ug/Kg	☼	103	29 - 127
Trichloroethene	45	U	1070	1030		ug/Kg	☼	97	10 - 160
Vinyl chloride	36	U	1070	974		ug/Kg	☼	91	31 - 134
Xylenes, Total	130	U	2140	2220		ug/Kg	☼	104	10 - 137
1,1,1-Trichloroethane	45	U	1070	934		ug/Kg	☼	87	33 - 130
1,1,2-Trichloroethane	45	U	1070	1140		ug/Kg	☼	106	19 - 137

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

**Lab Sample ID: 240-88853-1 MS**

**Matrix: Solid**

**Analysis Batch: 306624**

**Client Sample ID: S-7878-120417-SSH-B01**

**Prep Type: Total/NA**

**Prep Batch: 306686**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Cyclohexane	1100	U	1070	1030	J	ug/Kg	☼	96		22 - 135
1,2-Dibromo-3-Chloropropane	220	U	1070	637		ug/Kg	☼	60		10 - 128
1,2-Dibromoethane	220	U	1070	985		ug/Kg	☼	92		25 - 137
Dichlorodifluoromethane	90	U	1070	875		ug/Kg	☼	82		10 - 126
cis-1,2-Dichloroethene	45	U	1070	1100		ug/Kg	☼	103		46 - 120
trans-1,2-Dichloroethene	45	U	1070	1000		ug/Kg	☼	94		32 - 134
Isopropylbenzene	220	U	1070	1090		ug/Kg	☼	102		10 - 128
Methyl acetate	1100	U	2140	2190		ug/Kg	☼	102		14 - 151
Methyl tert-butyl ether	220	U	1070	1070		ug/Kg	☼	101		49 - 134
1,1,2-Trichloro-1,2,2-trifluoroethane	220	U	1070	965		ug/Kg	☼	90		26 - 130
1,2,4-Trichlorobenzene	220	U	1070	928		ug/Kg	☼	87		10 - 120
1,2-Dichlorobenzene	90	U	1070	1080		ug/Kg	☼	101		10 - 120
1,3-Dichlorobenzene	90	U	1070	1070		ug/Kg	☼	100		10 - 120
1,4-Dichlorobenzene	90	U	1070	1060		ug/Kg	☼	99		10 - 120
Trichlorofluoromethane	90	U	1070	1020		ug/Kg	☼	95		24 - 137
Dibromochloromethane	45	U	1070	698		ug/Kg	☼	65		19 - 120
Methylcyclohexane	1100	U	1070	951	J	ug/Kg	☼	89		13 - 134

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	95		64 - 144
4-Bromofluorobenzene (Surr)	91		58 - 142
Toluene-d8 (Surr)	97		61 - 137
Dibromofluoromethane (Surr)	94		31 - 155

**Lab Sample ID: 240-88853-1 MSD**

**Matrix: Solid**

**Analysis Batch: 306624**

**Client Sample ID: S-7878-120417-SSH-B01**

**Prep Type: Total/NA**

**Prep Batch: 306686**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Acetone	670	U	2120	2440		ug/Kg	☼	115		15 - 127	2	40
Benzene	45	U	1060	1070		ug/Kg	☼	100		33 - 127	6	40
Bromodichloromethane	90	U	1060	787		ug/Kg	☼	74		22 - 127	7	40
Bromoform	90	U	1060	565		ug/Kg	☼	53		10 - 120	2	40
Bromomethane	220	U	1060	568		ug/Kg	☼	54		13 - 138	12	40
2-Butanone (MEK)	670	U *	2120	2650		ug/Kg	☼	125		29 - 127	2	40
Carbon disulfide	220	U	1060	1090		ug/Kg	☼	102		15 - 131	4	40
Carbon tetrachloride	45	U	1060	727		ug/Kg	☼	68		17 - 127	2	40
Chlorobenzene	45	U	1060	1030		ug/Kg	☼	97		15 - 122	6	40
Chloroethane	220	U	1060	750		ug/Kg	☼	71		15 - 148	27	40
Chloroform	45	U	1060	1030		ug/Kg	☼	97		41 - 121	6	40
Chloromethane	220	U	1060	997		ug/Kg	☼	94		33 - 122	7	40
1,1-Dichloroethane	45	U	1060	1060		ug/Kg	☼	100		41 - 122	7	40
1,2-Dichloroethane	45	U	1060	1040		ug/Kg	☼	98		35 - 122	6	40
1,1-Dichloroethene	45	U	1060	1000		ug/Kg	☼	95		30 - 139	8	40
1,2-Dichloropropane	45	U	1060	1110		ug/Kg	☼	105		38 - 130	9	40
cis-1,3-Dichloropropene	45	U	1060	903		ug/Kg	☼	85		13 - 127	3	40
trans-1,3-Dichloropropene	45	U	1060	854		ug/Kg	☼	80		11 - 120	1	40

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

**Lab Sample ID: 240-88853-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 306624**

**Client Sample ID: S-7878-120417-SSH-B01**  
**Prep Type: Total/NA**  
**Prep Batch: 306686**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limit	
Ethylbenzene	45	U	1060	1050		ug/Kg	☼	99	18 - 126	4	40
2-Hexanone	2200	U	2120	2540		ug/Kg	☼	119	21 - 136	11	40
Methylene Chloride	220	U	1060	1020		ug/Kg	☼	96	34 - 134	10	40
4-Methyl-2-pentanone (MIBK)	2200	U	2120	2230	J	ug/Kg	☼	105	16 - 164	2	40
Styrene	45	U	1060	1070		ug/Kg	☼	101	10 - 128	5	40
1,1,2,2-Tetrachloroethane	45	U	1060	1040		ug/Kg	☼	98	16 - 157	1	40
Tetrachloroethene	45	U	1060	1020		ug/Kg	☼	97	17 - 126	4	40
Toluene	90	U	1060	1070		ug/Kg	☼	100	29 - 127	4	40
Trichloroethene	45	U	1060	975		ug/Kg	☼	92	10 - 160	6	40
Vinyl chloride	36	U	1060	938		ug/Kg	☼	88	31 - 134	4	40
Xylenes, Total	130	U	2120	2120		ug/Kg	☼	100	10 - 137	5	40
1,1,1-Trichloroethane	45	U	1060	929		ug/Kg	☼	88	33 - 130	1	40
1,1,2-Trichloroethane	45	U	1060	1110		ug/Kg	☼	104	19 - 137	3	40
Cyclohexane	1100	U	1060	1000	J	ug/Kg	☼	95	22 - 135	3	40
1,2-Dibromo-3-Chloropropane	220	U	1060	634		ug/Kg	☼	60	10 - 128	1	40
1,2-Dibromoethane	220	U	1060	1020		ug/Kg	☼	96	25 - 137	4	40
Dichlorodifluoromethane	90	U	1060	846		ug/Kg	☼	80	10 - 126	3	40
cis-1,2-Dichloroethene	45	U	1060	1020		ug/Kg	☼	96	46 - 120	8	40
trans-1,2-Dichloroethene	45	U	1060	959		ug/Kg	☼	90	32 - 134	5	40
Isopropylbenzene	220	U	1060	1050		ug/Kg	☼	99	10 - 128	4	40
Methyl acetate	1100	U	2120	2190		ug/Kg	☼	103	14 - 151	0	40
Methyl tert-butyl ether	220	U	1060	1070		ug/Kg	☼	100	49 - 134	1	40
1,1,2-Trichloro-1,2,2-trifluoroethane	220	U	1060	939		ug/Kg	☼	88	26 - 130	3	40
1,2,4-Trichlorobenzene	220	U	1060	943		ug/Kg	☼	89	10 - 120	2	40
1,2-Dichlorobenzene	90	U	1060	1030		ug/Kg	☼	97	10 - 120	5	40
1,3-Dichlorobenzene	90	U	1060	1000		ug/Kg	☼	94	10 - 120	7	40
1,4-Dichlorobenzene	90	U	1060	992		ug/Kg	☼	94	10 - 120	7	40
Trichlorofluoromethane	90	U	1060	991		ug/Kg	☼	93	24 - 137	3	40
Dibromochloromethane	45	U	1060	670		ug/Kg	☼	63	19 - 120	4	40
Methylcyclohexane	1100	U	1060	900	J	ug/Kg	☼	85	13 - 134	5	40

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	94		64 - 144
4-Bromofluorobenzene (Surr)	93		58 - 142
Toluene-d8 (Surr)	98		61 - 137
Dibromofluoromethane (Surr)	91		31 - 155

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 240-306476/23-A**  
**Matrix: Solid**  
**Analysis Batch: 306989**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 306476**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1'-Biphenyl	50	U	50	3.5	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
bis (2-chloroisopropyl) ether	100	U	100	9.5	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
2,4,5-Trichlorophenol	150	U	150	25	ug/Kg		12/06/17 10:58	12/09/17 12:07	1

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 240-306476/23-A**  
**Matrix: Solid**  
**Analysis Batch: 306989**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 306476**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4,6-Trichlorophenol	150	U	150	8.9	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
2,4-Dichlorophenol	150	U	150	20	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
2,4-Dimethylphenol	150	U	150	20	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
2,4-Dinitrophenol	330	U	330	21	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
2,4-Dinitrotoluene	200	U	200	17	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
2,6-Dinitrotoluene	200	U	200	21	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
2-Chloronaphthalene	50	U	50	0.45	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
2-Chlorophenol	50	U	50	8.2	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
2-Methylnaphthalene	6.7	U	6.7	0.50	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
2-Methylphenol	200	U	200	11	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
2-Nitroaniline	200	U	200	9.1	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
2-Nitrophenol	50	U	50	8.3	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
3,3'-Dichlorobenzidine	100	U	100	18	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
3-Nitroaniline	200	U	200	16	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
4,6-Dinitro-2-methylphenol	150	U	150	9.2	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
4-Bromophenyl phenyl ether	50	U	50	13	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
4-Chloro-3-methylphenol	150	U	150	21	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
4-Chloroaniline	150	U	150	17	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
4-Chlorophenyl phenyl ether	50	U	50	13	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
4-Nitroaniline	200	U	200	26	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
4-Nitrophenol	330	U	330	17	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Acenaphthene	6.7	U	6.7	0.76	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Acenaphthylene	6.7	U	6.7	0.35	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Acetophenone	100	U	100	9.2	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Anthracene	6.7	U	6.7	0.78	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Atrazine	200	U	200	9.1	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Benzaldehyde	100	U	100	12	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Benzo[a]anthracene	6.7	U	6.7	0.63	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Benzo[a]pyrene	6.7	U	6.7	0.64	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Benzo[b]fluoranthene	6.7	U	6.7	0.59	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Benzo[g,h,i]perylene	6.7	U	6.7	0.35	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Benzo[k]fluoranthene	6.7	U	6.7	0.68	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Bis(2-chloroethoxy)methane	100	U	100	22	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Bis(2-chloroethyl)ether	100	U	100	2.0	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Bis(2-ethylhexyl) phthalate	70	U	70	19	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Butyl benzyl phthalate	70	U	70	10	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Caprolactam	330	U	330	37	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Carbazole	50	U	50	27	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Chrysene	6.7	U	6.7	1.1	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Dibenz(a,h)anthracene	6.7	U	6.7	0.66	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Dibenzofuran	50	U	50	0.66	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Diethyl phthalate	70	U	70	16	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Dimethyl phthalate	70	U	70	17	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Di-n-butyl phthalate	70	U	70	15	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Di-n-octyl phthalate	70	U	70	7.9	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Fluoranthene	6.7	U	6.7	0.55	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Fluorene	6.7	U	6.7	0.53	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Hexachlorobenzene	6.7	U	6.7	2.1	ug/Kg		12/06/17 10:58	12/09/17 12:07	1

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 240-306476/23-A**  
**Matrix: Solid**  
**Analysis Batch: 306989**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 306476**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Hexachlorobutadiene	50	U	50	5.6	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Hexachlorocyclopentadiene	330	U	330	8.1	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Hexachloroethane	50	U	50	9.0	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Indeno[1,2,3-cd]pyrene	6.7	U	6.7	0.35	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Isophorone	50	U	50	13	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Naphthalene	6.7	U	6.7	0.82	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Nitrobenzene	100	U	100	2.2	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
N-Nitrosodi-n-propylamine	50	U	50	6.3	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
N-Nitrosodiphenylamine	50	U	50	21	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Pentachlorophenol	150	U	150	9.1	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Phenol	50	U	50	7.3	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Phenanthrene	6.7	U	6.7	0.73	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
Pyrene	6.7	U	6.7	0.44	ug/Kg		12/06/17 10:58	12/09/17 12:07	1
3 & 4 Methylphenol	400	U	400	20	ug/Kg		12/06/17 10:58	12/09/17 12:07	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl (Surr)	96		32 - 120	12/06/17 10:58	12/09/17 12:07	1
2-Fluorophenol (Surr)	70		29 - 120	12/06/17 10:58	12/09/17 12:07	1
2,4,6-Tribromophenol (Surr)	33		10 - 120	12/06/17 10:58	12/09/17 12:07	1
Nitrobenzene-d5 (Surr)	78		30 - 120	12/06/17 10:58	12/09/17 12:07	1
Phenol-d5 (Surr)	78		29 - 120	12/06/17 10:58	12/09/17 12:07	1
Terphenyl-d14 (Surr)	104		41 - 120	12/06/17 10:58	12/09/17 12:07	1

**Lab Sample ID: LCS 240-306476/24-A**  
**Matrix: Solid**  
**Analysis Batch: 306989**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 306476**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1'-Biphenyl	667	614		ug/Kg		92	48 - 120
bis (2-chloroisopropyl) ether	667	578		ug/Kg		87	37 - 120
2,4,5-Trichlorophenol	667	558		ug/Kg		84	34 - 120
2,4,6-Trichlorophenol	667	441		ug/Kg		66	19 - 120
2,4-Dichlorophenol	667	584		ug/Kg		88	48 - 120
2,4-Dimethylphenol	667	409		ug/Kg		61	37 - 120
2,4-Dinitrophenol	1330	596		ug/Kg		45	10 - 120
2,4-Dinitrotoluene	667	667		ug/Kg		100	53 - 120
2,6-Dinitrotoluene	667	687		ug/Kg		103	54 - 120
2-Chloronaphthalene	667	630		ug/Kg		95	49 - 120
2-Chlorophenol	667	558		ug/Kg		84	50 - 120
2-Methylnaphthalene	667	581		ug/Kg		87	49 - 120
2-Methylphenol	667	534		ug/Kg		80	49 - 120
2-Nitroaniline	667	687		ug/Kg		103	46 - 120
2-Nitrophenol	667	584		ug/Kg		88	46 - 120
3,3'-Dichlorobenzidine	1330	1070		ug/Kg		80	40 - 120
3-Nitroaniline	667	594		ug/Kg		89	48 - 120
4,6-Dinitro-2-methylphenol	1330	775		ug/Kg		58	18 - 120
4-Bromophenyl phenyl ether	667	656		ug/Kg		98	51 - 120
4-Chloro-3-methylphenol	667	608		ug/Kg		91	47 - 120

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 240-306476/24-A**  
**Matrix: Solid**  
**Analysis Batch: 306989**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 306476**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	667	427		ug/Kg		64	37 - 120
4-Chlorophenyl phenyl ether	667	632		ug/Kg		95	49 - 120
4-Nitroaniline	667	655		ug/Kg		98	49 - 120
4-Nitrophenol	1330	1230		ug/Kg		92	42 - 120
Acenaphthene	667	604		ug/Kg		91	48 - 120
Acenaphthylene	667	597		ug/Kg		89	46 - 120
Acetophenone	667	518		ug/Kg		78	46 - 120
Anthracene	667	640		ug/Kg		96	51 - 120
Atrazine	1330	1620	*	ug/Kg		122	57 - 120
Benzaldehyde	1330	1170		ug/Kg		88	48 - 120
Benzo[a]anthracene	667	650		ug/Kg		97	53 - 120
Benzo[a]pyrene	667	646		ug/Kg		97	50 - 120
Benzo[b]fluoranthene	667	648		ug/Kg		97	48 - 120
Benzo[g,h,i]perylene	667	632		ug/Kg		95	50 - 120
Benzo[k]fluoranthene	667	653		ug/Kg		98	51 - 120
Bis(2-chloroethoxy)methane	667	575		ug/Kg		86	50 - 120
Bis(2-chloroethyl)ether	667	543		ug/Kg		81	48 - 120
Bis(2-ethylhexyl) phthalate	667	681		ug/Kg		102	52 - 120
Butyl benzyl phthalate	667	693		ug/Kg		104	53 - 120
Caprolactam	1330	1180		ug/Kg		88	59 - 120
Carbazole	667	714		ug/Kg		107	56 - 120
Chrysene	667	656		ug/Kg		98	54 - 120
Dibenz(a,h)anthracene	667	657		ug/Kg		99	48 - 120
Dibenzofuran	667	628		ug/Kg		94	49 - 120
Diethyl phthalate	667	654		ug/Kg		98	52 - 120
Dimethyl phthalate	667	669		ug/Kg		100	53 - 120
Di-n-butyl phthalate	667	705		ug/Kg		106	56 - 120
Di-n-octyl phthalate	667	578		ug/Kg		87	42 - 120
Fluoranthene	667	726		ug/Kg		109	53 - 120
Fluorene	667	647		ug/Kg		97	50 - 120
Hexachlorobenzene	667	670		ug/Kg		101	46 - 120
Hexachlorobutadiene	667	550		ug/Kg		83	44 - 120
Hexachlorocyclopentadiene	667	402		ug/Kg		60	14 - 120
Hexachloroethane	667	521		ug/Kg		78	45 - 120
Indeno[1,2,3-cd]pyrene	667	650		ug/Kg		97	49 - 120
Isophorone	667	564		ug/Kg		85	47 - 120
Naphthalene	667	575		ug/Kg		86	48 - 120
Nitrobenzene	667	575		ug/Kg		86	48 - 120
N-Nitrosodi-n-propylamine	667	549		ug/Kg		82	49 - 120
N-Nitrosodiphenylamine	667	667		ug/Kg		100	53 - 120
Pentachlorophenol	1330	720		ug/Kg		54	14 - 120
Phenol	667	559		ug/Kg		84	49 - 120
Phenanthrene	667	614		ug/Kg		92	52 - 120
Pyrene	667	701		ug/Kg		105	55 - 120
3 & 4 Methylphenol	667	546		ug/Kg		82	50 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	99		32 - 120

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 240-306476/24-A**  
**Matrix: Solid**  
**Analysis Batch: 306989**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 306476**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	88		29 - 120
2,4,6-Tribromophenol (Surr)	62		10 - 120
Nitrobenzene-d5 (Surr)	93		30 - 120
Phenol-d5 (Surr)	89		29 - 120
Terphenyl-d14 (Surr)	111		41 - 120

**Lab Sample ID: 240-88853-9 MS**  
**Matrix: Solid**  
**Analysis Batch: 306989**

**Client Sample ID: S-7878-120417-SSH-B09**  
**Prep Type: Total/NA**  
**Prep Batch: 306476**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,1'-Biphenyl	7.4	J	695	697		ug/Kg	☼	99	33 - 120
bis (2-chloroisopropyl) ether	100	U	695	628		ug/Kg	☼	90	26 - 120
2,4,5-Trichlorophenol	160	U	695	611		ug/Kg	☼	88	20 - 120
2,4,6-Trichlorophenol	160	U	695	457		ug/Kg	☼	66	19 - 120
2,4-Dichlorophenol	160	U	695	627		ug/Kg	☼	90	32 - 120
2,4-Dimethylphenol	160	U	695	587		ug/Kg	☼	84	28 - 120
2,4-Dinitrophenol	340	U	1390	918		ug/Kg	☼	66	10 - 120
2,4-Dinitrotoluene	210	U	695	724		ug/Kg	☼	104	38 - 120
2,6-Dinitrotoluene	210	U	695	726		ug/Kg	☼	104	43 - 120
2-Chloronaphthalene	52	U	695	672		ug/Kg	☼	97	35 - 120
2-Chlorophenol	52	U	695	610		ug/Kg	☼	88	30 - 120
2-Methylnaphthalene	60		695	715		ug/Kg	☼	94	31 - 120
2-Methylphenol	210	U	695	600		ug/Kg	☼	86	31 - 120
2-Nitroaniline	210	U	695	756		ug/Kg	☼	109	29 - 120
2-Nitrophenol	52	U	695	645		ug/Kg	☼	93	26 - 120
3,3'-Dichlorobenzidine	100	U	1390	843		ug/Kg	☼	61	10 - 120
3-Nitroaniline	210	U	695	546		ug/Kg	☼	79	21 - 120
4,6-Dinitro-2-methylphenol	160	U	1390	955		ug/Kg	☼	69	10 - 120
4-Bromophenyl phenyl ether	52	U	695	692		ug/Kg	☼	100	44 - 120
4-Chloro-3-methylphenol	160	U	695	644		ug/Kg	☼	93	31 - 120
4-Chloroaniline	160	U	695	333		ug/Kg	☼	48	15 - 120
4-Chlorophenyl phenyl ether	52	U	695	697		ug/Kg	☼	100	41 - 120
4-Nitroaniline	210	U	695	650		ug/Kg	☼	94	23 - 120
4-Nitrophenol	340	U	1390	1390		ug/Kg	☼	100	32 - 120
Acenaphthene	6.9	U	695	681		ug/Kg	☼	98	36 - 120
Acenaphthylene	6.9	U	695	655		ug/Kg	☼	94	35 - 120
Acetophenone	100	U	695	569		ug/Kg	☼	82	31 - 120
Anthracene	3.9	J	695	676		ug/Kg	☼	97	42 - 120
Atrazine	210	U F1 *	1390	1730	F1	ug/Kg	☼	124	41 - 120
Benzaldehyde	100	U	1390	1290		ug/Kg	☼	93	28 - 120
Benzo[a]anthracene	6.9	U	695	707		ug/Kg	☼	102	35 - 120
Benzo[a]pyrene	6.9	U	695	673		ug/Kg	☼	97	33 - 120
Benzo[b]fluoranthene	12		695	673		ug/Kg	☼	95	26 - 120
Benzo[g,h,i]perylene	12		695	770		ug/Kg	☼	109	16 - 120
Benzo[k]fluoranthene	6.9	U	695	672		ug/Kg	☼	97	33 - 120
Bis(2-chloroethoxy)methane	100	U	695	606		ug/Kg	☼	87	36 - 120
Bis(2-chloroethyl)ether	100	U	695	595		ug/Kg	☼	86	33 - 120

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 240-88853-9 MS**

**Matrix: Solid**

**Analysis Batch: 306989**

**Client Sample ID: S-7878-120417-SSH-B09**

**Prep Type: Total/NA**

**Prep Batch: 306476**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Bis(2-ethylhexyl) phthalate	73	U	695	771		ug/Kg	☼	111		40 - 120
Butyl benzyl phthalate	73	U	695	761		ug/Kg	☼	110		46 - 120
Caprolactam	340	U	1390	1340		ug/Kg	☼	96		33 - 128
Carbazole	52	U	695	773		ug/Kg	☼	111		35 - 120
Chrysene	6.9	U	695	698		ug/Kg	☼	101		33 - 120
Dibenz(a,h)anthracene	6.9	U	695	750		ug/Kg	☼	108		30 - 120
Dibenzofuran	17	J	695	714		ug/Kg	☼	100		37 - 120
Diethyl phthalate	73	U	695	690		ug/Kg	☼	99		44 - 120
Dimethyl phthalate	73	U	695	716		ug/Kg	☼	103		42 - 120
Di-n-butyl phthalate	20	J	695	774		ug/Kg	☼	108		45 - 120
Di-n-octyl phthalate	73	U	695	653		ug/Kg	☼	94		35 - 120
Fluoranthene	11		695	810		ug/Kg	☼	115		26 - 121
Fluorene	6.9	U	695	709		ug/Kg	☼	102		36 - 120
Hexachlorobenzene	6.9	U	695	696		ug/Kg	☼	100		36 - 120
Hexachlorobutadiene	52	U	695	575		ug/Kg	☼	83		31 - 120
Hexachlorocyclopentadiene	340	U F2 F1	695	48.6	J F1	ug/Kg	☼	7		10 - 120
Hexachloroethane	52	U	695	576		ug/Kg	☼	83		15 - 120
Indeno[1,2,3-cd]pyrene	6.9	U	695	760		ug/Kg	☼	109		24 - 120
Isophorone	52	U	695	594		ug/Kg	☼	85		34 - 120
Naphthalene	43		695	663		ug/Kg	☼	89		29 - 120
Nitrobenzene	100	U	695	624		ug/Kg	☼	90		33 - 120
N-Nitrosodi-n-propylamine	52	U	695	620		ug/Kg	☼	89		32 - 120
N-Nitrosodiphenylamine	52	U	695	691		ug/Kg	☼	99		29 - 120
Pentachlorophenol	160	U	1390	498		ug/Kg	☼	36		10 - 120
Phenol	52	U	695	614		ug/Kg	☼	88		21 - 120
Phenanthrene	41		695	717		ug/Kg	☼	97		28 - 120
Pyrene	11		695	769		ug/Kg	☼	109		28 - 120
3 & 4 Methylphenol	420	U	695	634		ug/Kg	☼	91		33 - 120

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	104		32 - 120
2-Fluorophenol (Surr)	91		29 - 120
2,4,6-Tribromophenol (Surr)	58		10 - 120
Nitrobenzene-d5 (Surr)	95		30 - 120
Phenol-d5 (Surr)	95		29 - 120
Terphenyl-d14 (Surr)	112		41 - 120

**Lab Sample ID: 240-88853-9 MSD**

**Matrix: Solid**

**Analysis Batch: 306989**

**Client Sample ID: S-7878-120417-SSH-B09**

**Prep Type: Total/NA**

**Prep Batch: 306476**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
1,1'-Biphenyl	7.4	J	695	660		ug/Kg	☼	94		33 - 120	5	33
bis (2-chloroisopropyl) ether	100	U	695	564		ug/Kg	☼	81		26 - 120	11	31
2,4,5-Trichlorophenol	160	U	695	711		ug/Kg	☼	102		20 - 120	15	38
2,4,6-Trichlorophenol	160	U	695	643		ug/Kg	☼	92		19 - 120	34	36
2,4-Dichlorophenol	160	U	695	603		ug/Kg	☼	87		32 - 120	4	32
2,4-Dimethylphenol	160	U	695	558		ug/Kg	☼	80		28 - 120	5	35

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-88853-9 MSD

Client Sample ID: S-7878-120417-SSH-B09

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 306989

Prep Batch: 306476

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2,4-Dinitrophenol	340	U	1390	881		ug/Kg	☼	63	10 - 120	4	40
2,4-Dinitrotoluene	210	U	695	726		ug/Kg	☼	104	38 - 120	0	27
2,6-Dinitrotoluene	210	U	695	728		ug/Kg	☼	105	43 - 120	0	31
2-Chloronaphthalene	52	U	695	651		ug/Kg	☼	94	35 - 120	3	30
2-Chlorophenol	52	U	695	573		ug/Kg	☼	82	30 - 120	6	37
2-Methylnaphthalene	60		695	656		ug/Kg	☼	86	31 - 120	9	33
2-Methylphenol	210	U	695	575		ug/Kg	☼	83	31 - 120	4	36
2-Nitroaniline	210	U	695	746		ug/Kg	☼	107	29 - 120	1	31
2-Nitrophenol	52	U	695	606		ug/Kg	☼	87	26 - 120	6	38
3,3'-Dichlorobenzidine	100	U	1390	894		ug/Kg	☼	64	10 - 120	6	40
3-Nitroaniline	210	U	695	545		ug/Kg	☼	78	21 - 120	0	40
4,6-Dinitro-2-methylphenol	160	U	1390	950		ug/Kg	☼	68	10 - 120	1	40
4-Bromophenyl phenyl ether	52	U	695	702		ug/Kg	☼	101	44 - 120	1	40
4-Chloro-3-methylphenol	160	U	695	645		ug/Kg	☼	93	31 - 120	0	25
4-Chloroaniline	160	U	695	402		ug/Kg	☼	58	15 - 120	19	36
4-Chlorophenyl phenyl ether	52	U	695	702		ug/Kg	☼	101	41 - 120	1	40
4-Nitroaniline	210	U	695	680		ug/Kg	☼	98	23 - 120	5	40
4-Nitrophenol	340	U	1390	1470		ug/Kg	☼	106	32 - 120	6	31
Acenaphthene	6.9	U	695	652		ug/Kg	☼	94	36 - 120	4	28
Acenaphthylene	6.9	U	695	641		ug/Kg	☼	92	35 - 120	2	26
Acetophenone	100	U	695	535		ug/Kg	☼	77	31 - 120	6	40
Anthracene	3.9	J	695	679		ug/Kg	☼	97	42 - 120	0	32
Atrazine	210	U F1 *	1390	1730	F1	ug/Kg	☼	124	41 - 120	0	26
Benzaldehyde	100	U	1390	1190		ug/Kg	☼	86	28 - 120	8	40
Benzo[a]anthracene	6.9	U	695	702		ug/Kg	☼	101	35 - 120	1	40
Benzo[a]pyrene	6.9	U	695	708		ug/Kg	☼	102	33 - 120	5	40
Benzo[b]fluoranthene	12		695	722		ug/Kg	☼	102	26 - 120	7	40
Benzo[g,h,i]perylene	12		695	813		ug/Kg	☼	115	16 - 120	5	40
Benzo[k]fluoranthene	6.9	U	695	634		ug/Kg	☼	91	33 - 120	6	40
Bis(2-chloroethoxy)methane	100	U	695	575		ug/Kg	☼	83	36 - 120	5	33
Bis(2-chloroethyl)ether	100	U	695	537		ug/Kg	☼	77	33 - 120	10	36
Bis(2-ethylhexyl) phthalate	73	U	695	770		ug/Kg	☼	111	40 - 120	0	28
Butyl benzyl phthalate	73	U	695	730		ug/Kg	☼	105	46 - 120	4	39
Caprolactam	340	U	1390	1390		ug/Kg	☼	100	33 - 128	4	40
Carbazole	52	U	695	753		ug/Kg	☼	108	35 - 120	3	34
Chrysene	6.9	U	695	683		ug/Kg	☼	98	33 - 120	2	40
Dibenz(a,h)anthracene	6.9	U	695	794		ug/Kg	☼	114	30 - 120	6	40
Dibenzofuran	17	J	695	693		ug/Kg	☼	97	37 - 120	3	28
Diethyl phthalate	73	U	695	698		ug/Kg	☼	100	44 - 120	1	26
Dimethyl phthalate	73	U	695	703		ug/Kg	☼	101	42 - 120	2	35
Di-n-butyl phthalate	20	J	695	764		ug/Kg	☼	107	45 - 120	1	28
Di-n-octyl phthalate	73	U	695	644		ug/Kg	☼	93	35 - 120	1	33
Fluoranthene	11		695	806		ug/Kg	☼	114	26 - 121	1	40
Fluorene	6.9	U	695	692		ug/Kg	☼	99	36 - 120	3	28
Hexachlorobenzene	6.9	U	695	699		ug/Kg	☼	101	36 - 120	0	25
Hexachlorobutadiene	52	U	695	544		ug/Kg	☼	78	31 - 120	6	35
Hexachlorocyclopentadiene	340	U F2 F1	695	114	J F2	ug/Kg	☼	16	10 - 120	80	40
Hexachloroethane	52	U	695	531		ug/Kg	☼	76	15 - 120	8	40

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-88853-9 MSD

Client Sample ID: S-7878-120417-SSH-B09

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 306989

Prep Batch: 306476

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Indeno[1,2,3-cd]pyrene	6.9	U	695	803		ug/Kg	☼	115	24 - 120	5	40
Isophorone	52	U	695	568		ug/Kg	☼	82	34 - 120	4	32
Naphthalene	43		695	618		ug/Kg	☼	83	29 - 120	7	34
Nitrobenzene	100	U	695	580		ug/Kg	☼	83	33 - 120	7	40
N-Nitrosodi-n-propylamine	52	U	695	575		ug/Kg	☼	83	32 - 120	8	32
N-Nitrosodiphenylamine	52	U	695	679		ug/Kg	☼	98	29 - 120	2	30
Pentachlorophenol	160	U	1390	581		ug/Kg	☼	42	10 - 120	15	40
Phenol	52	U	695	588		ug/Kg	☼	85	21 - 120	4	40
Phenanthrene	41		695	689		ug/Kg	☼	93	28 - 120	4	40
Pyrene	11		695	757		ug/Kg	☼	107	28 - 120	2	40
3 & 4 Methylphenol	420	U	695	594		ug/Kg	☼	85	33 - 120	6	29

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	100		32 - 120
2-Fluorophenol (Surr)	87		29 - 120
2,4,6-Tribromophenol (Surr)	85		10 - 120
Nitrobenzene-d5 (Surr)	89		30 - 120
Phenol-d5 (Surr)	88		29 - 120
Terphenyl-d14 (Surr)	109		41 - 120

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-306846/22-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 307250

Prep Batch: 306846

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor-1016	50	U	50	22	ug/Kg		12/08/17 08:46	12/12/17 08:17	1
Aroclor-1221	50	U	50	24	ug/Kg		12/08/17 08:46	12/12/17 08:17	1
Aroclor-1232	50	U	50	23	ug/Kg		12/08/17 08:46	12/12/17 08:17	1
Aroclor-1242	50	U	50	19	ug/Kg		12/08/17 08:46	12/12/17 08:17	1
Aroclor-1248	50	U	50	24	ug/Kg		12/08/17 08:46	12/12/17 08:17	1
Aroclor-1254	50	U	50	23	ug/Kg		12/08/17 08:46	12/12/17 08:17	1
Aroclor-1260	50	U	50	22	ug/Kg		12/08/17 08:46	12/12/17 08:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	117		14 - 128	12/08/17 08:46	12/12/17 08:17	1
DCB Decachlorobiphenyl	128		10 - 132	12/08/17 08:46	12/12/17 08:17	1

Lab Sample ID: LCS 240-306846/23-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 307250

Prep Batch: 306846

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Aroclor-1016	1000	861		ug/Kg		86	47 - 120
Aroclor-1260	1000	915		ug/Kg		91	46 - 120

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCS 240-306846/23-A**  
**Matrix: Solid**  
**Analysis Batch: 307250**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 306846**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	114		14 - 128
DCB Decachlorobiphenyl	125		10 - 132

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 240-306692/1-A**  
**Matrix: Solid**  
**Analysis Batch: 306880**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 306692**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16	U	16	5.8	mg/Kg		12/07/17 14:00	12/08/17 10:40	1
Barium	0.80	U	0.80	0.41	mg/Kg		12/07/17 14:00	12/08/17 10:40	1
Beryllium	0.16	U	0.16	0.026	mg/Kg		12/07/17 14:00	12/08/17 10:40	1
Calcium	400	U	400	23	mg/Kg		12/07/17 14:00	12/08/17 10:40	1
Cadmium	0.080	U	0.080	0.021	mg/Kg		12/07/17 14:00	12/08/17 10:40	1
Cobalt	0.40	U	0.40	0.047	mg/Kg		12/07/17 14:00	12/08/17 10:40	1
Chromium	0.80	U	0.80	0.075	mg/Kg		12/07/17 14:00	12/08/17 10:40	1
Copper	0.80	U	0.80	0.23	mg/Kg		12/07/17 14:00	12/08/17 10:40	1
Iron	8.0	U	8.0	3.2	mg/Kg		12/07/17 14:00	12/08/17 10:40	1
Potassium	6.24	J	400	6.2	mg/Kg		12/07/17 14:00	12/08/17 10:40	1
Magnesium	80	U	80	5.2	mg/Kg		12/07/17 14:00	12/08/17 10:40	1
Manganese	0.80	U	0.80	0.084	mg/Kg		12/07/17 14:00	12/08/17 10:40	1
Sodium	26.1	J	80	19	mg/Kg		12/07/17 14:00	12/08/17 10:40	1
Nickel	0.392	J	0.80	0.080	mg/Kg		12/07/17 14:00	12/08/17 10:40	1
Vanadium	0.80	U	0.80	0.20	mg/Kg		12/07/17 14:00	12/08/17 10:40	1
Zinc	0.580	J	2.0	0.56	mg/Kg		12/07/17 14:00	12/08/17 10:40	1
Lead	0.24	U	0.24	0.20	mg/Kg		12/07/17 14:00	12/08/17 10:40	1

**Lab Sample ID: LCS 240-306692/2-A**  
**Matrix: Solid**  
**Analysis Batch: 306880**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 306692**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aluminum	200	192		mg/Kg		96	80 - 120
Barium	200	192		mg/Kg		96	80 - 120
Beryllium	5.00	4.66		mg/Kg		93	80 - 120
Calcium	5000	4880		mg/Kg		98	80 - 120
Cadmium	5.00	5.21		mg/Kg		104	80 - 120
Cobalt	50.0	48.9		mg/Kg		98	80 - 120
Chromium	20.0	19.3		mg/Kg		97	80 - 120
Copper	25.0	24.4		mg/Kg		97	80 - 120
Iron	100	100		mg/Kg		100	80 - 120
Potassium	5000	4790		mg/Kg		96	80 - 120
Magnesium	5000	4890		mg/Kg		98	80 - 120
Manganese	50.0	50.0		mg/Kg		100	80 - 120
Sodium	5000	4920		mg/Kg		98	80 - 120
Nickel	50.0	50.4		mg/Kg		101	80 - 120
Vanadium	50.0	47.3		mg/Kg		95	80 - 120

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 240-306692/2-A**  
**Matrix: Solid**  
**Analysis Batch: 306880**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 306692**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Zinc	50.0	50.4		mg/Kg		101	80 - 120
Lead	50.0	48.6		mg/Kg		97	80 - 120

**Lab Sample ID: 240-88853-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 306880**

**Client Sample ID: S-7878-120417-SSH-B01**  
**Prep Type: Total/NA**  
**Prep Batch: 306692**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aluminum	1700		196	2230	4	mg/Kg	☼	271	75 - 125
Barium	8.0		196	194		mg/Kg	☼	95	75 - 125
Beryllium	0.046	J	4.91	4.51		mg/Kg	☼	91	75 - 125
Calcium	680		4910	5380		mg/Kg	☼	96	75 - 125
Cadmium	0.049	J	4.91	4.94		mg/Kg	☼	99	75 - 125
Cobalt	0.80		49.1	48.4		mg/Kg	☼	97	75 - 125
Chromium	2.1		19.6	20.9		mg/Kg	☼	96	75 - 125
Copper	2.0		24.6	25.1		mg/Kg	☼	94	75 - 125
Iron	1600		98.2	1790	4	mg/Kg	☼	152	75 - 125
Potassium	110	J B	4910	4730		mg/Kg	☼	94	75 - 125
Magnesium	450		4910	5130		mg/Kg	☼	95	75 - 125
Manganese	12		49.1	60.9		mg/Kg	☼	100	75 - 125
Sodium	86	U	4910	4750		mg/Kg	☼	97	75 - 125
Nickel	2.4	B	49.1	51.4		mg/Kg	☼	100	75 - 125
Vanadium	3.4		49.1	49.2		mg/Kg	☼	93	75 - 125
Zinc	4.1	B	49.1	53.5		mg/Kg	☼	101	75 - 125
Lead	1.3		49.1	47.4		mg/Kg	☼	94	75 - 125

**Lab Sample ID: 240-88853-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 306880**

**Client Sample ID: S-7878-120417-SSH-B01**  
**Prep Type: Total/NA**  
**Prep Batch: 306692**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aluminum	1700		196	2200	4	mg/Kg	☼	255	75 - 125	1	20
Barium	8.0		196	194		mg/Kg	☼	95	75 - 125	0	20
Beryllium	0.046	J	4.91	4.58		mg/Kg	☼	92	75 - 125	1	20
Calcium	680		4910	5500		mg/Kg	☼	98	75 - 125	2	20
Cadmium	0.049	J	4.91	5.00		mg/Kg	☼	101	75 - 125	1	20
Cobalt	0.80		49.1	48.8		mg/Kg	☼	98	75 - 125	1	20
Chromium	2.1		19.6	21.1		mg/Kg	☼	97	75 - 125	1	20
Copper	2.0		24.6	25.7		mg/Kg	☼	96	75 - 125	2	20
Iron	1600		98.2	1810	4	mg/Kg	☼	173	75 - 125	1	20
Potassium	110	J B	4910	4770		mg/Kg	☼	95	75 - 125	1	20
Magnesium	450		4910	5220		mg/Kg	☼	97	75 - 125	2	20
Manganese	12		49.1	63.5		mg/Kg	☼	105	75 - 125	4	20
Sodium	86	U	4910	4790		mg/Kg	☼	97	75 - 125	1	20
Nickel	2.4	B	49.1	51.6		mg/Kg	☼	100	75 - 125	0	20
Vanadium	3.4		49.1	49.0		mg/Kg	☼	93	75 - 125	0	20
Zinc	4.1	B	49.1	53.5		mg/Kg	☼	100	75 - 125	0	20
Lead	1.3		49.1	47.5		mg/Kg	☼	94	75 - 125	0	20

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 240-306692/1-A ^2**  
**Matrix: Solid**  
**Analysis Batch: 307088**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 306692**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0254	J	0.16	0.014	mg/Kg		12/07/17 14:00	12/09/17 00:00	2
Arsenic	0.0426	J	0.080	0.026	mg/Kg		12/07/17 14:00	12/09/17 00:00	2
Selenium	0.0522	J	0.16	0.040	mg/Kg		12/07/17 14:00	12/09/17 00:00	2
Thallium	0.080	U	0.080	0.019	mg/Kg		12/07/17 14:00	12/09/17 00:00	2
Silver	0.00140	J	0.080	0.0014	mg/Kg		12/07/17 14:00	12/09/17 00:00	2

**Lab Sample ID: LCS 240-306692/3-A ^2**  
**Matrix: Solid**  
**Analysis Batch: 307088**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 306692**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	10.0	9.40		mg/Kg		94	80 - 120
Arsenic	100	100		mg/Kg		100	80 - 120
Selenium	100	94.7		mg/Kg		95	80 - 120
Thallium	25.0	23.4		mg/Kg		93	80 - 120
Silver	10.0	9.58		mg/Kg		96	80 - 120

**Lab Sample ID: 240-88853-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 307088**

**Client Sample ID: S-7878-120417-SSH-B01**  
**Prep Type: Total/NA**  
**Prep Batch: 306692**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.13	J B	9.07	7.87		mg/Kg	☼	85	75 - 125
Arsenic	0.88	B	90.7	95.4		mg/Kg	☼	104	75 - 125
Selenium	0.23	B	90.7	90.1		mg/Kg	☼	99	75 - 125
Thallium	0.024	J	22.7	22.0		mg/Kg	☼	97	75 - 125
Silver	0.0056	J B	9.07	9.07		mg/Kg	☼	100	75 - 125

**Lab Sample ID: 240-88853-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 307088**

**Client Sample ID: S-7878-120417-SSH-B01**  
**Prep Type: Total/NA**  
**Prep Batch: 306692**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.13	J B	9.07	7.57		mg/Kg	☼	82	75 - 125	4	20
Arsenic	0.88	B	90.7	97.2		mg/Kg	☼	106	75 - 125	2	20
Selenium	0.23	B	90.7	90.0		mg/Kg	☼	99	75 - 125	0	20
Thallium	0.024	J	22.7	21.5		mg/Kg	☼	95	75 - 125	3	20
Silver	0.0056	J B	9.07	9.07		mg/Kg	☼	100	75 - 125	0	20

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 240-306700/1-A**  
**Matrix: Solid**  
**Analysis Batch: 306940**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 306700**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040	U	0.040	0.018	mg/Kg		12/07/17 16:00	12/08/17 12:04	1

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 7471A - Mercury (CVAA) (Continued)

**Lab Sample ID: LCS 240-306700/2-A**  
**Matrix: Solid**  
**Analysis Batch: 306940**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 306700**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.833	0.871		mg/Kg		105	80 - 120

**Lab Sample ID: 240-88853-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 306940**

**Client Sample ID: S-7878-120417-SSH-B01**  
**Prep Type: Total/NA**  
**Prep Batch: 306700**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.041	U	0.198	0.210		mg/Kg	☼	106	80 - 120

**Lab Sample ID: 240-88853-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 306940**

**Client Sample ID: S-7878-120417-SSH-B01**  
**Prep Type: Total/NA**  
**Prep Batch: 306700**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.041	U	0.198	0.195		mg/Kg	☼	98	80 - 120	8	20

## Method: Moisture - Percent Moisture

**Lab Sample ID: 240-88853-3 DU**  
**Matrix: Solid**  
**Analysis Batch: 306345**

**Client Sample ID: S-7878-120417-SSH-B03**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	95.9		95.7		%		0.2	20
Percent Moisture	4.1		4.3		%		4	20

# Surrogate Summary

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

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

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (64-144)	BFB (58-142)	TOL (61-137)	DBFM (31-155)
240-88853-1	S-7878-120417-SSH-B01	87	88	97	90
240-88853-1 MS	S-7878-120417-SSH-B01	95	91	97	94
240-88853-1 MSD	S-7878-120417-SSH-B01	94	93	98	91
240-88853-2	S-7878-120417-SSH-B02	92	94	100	96
240-88853-3	S-7878-120417-SSH-B03	95	94	101	94
240-88853-4	S-7878-120417-SSH-B04	99	95	104	97
240-88853-5	S-7878-120417-SSH-B05	94	93	101	91
240-88853-6	S-7878-120417-SSH-B06	98	96	105	95
240-88853-7	S-7878-120417-SSH-B07	93	92	100	92
240-88853-8	S-7878-120417-SSH-B08	92	93	98	89
240-88853-9	S-7878-120417-SSH-B09	91	91	98	89
LCS 240-306686/2-A	Lab Control Sample	93	89	93	91
MB 240-306686/1-A	Method Blank	84	83	88	85

#### Surrogate Legend

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

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (32-120)	2FP (29-120)	TBP (10-120)	NBZ (30-120)	PHL (29-120)	TPHL (41-120)
240-88853-1	S-7878-120417-SSH-B01	88	85	46	89	86	114
240-88853-2	S-7878-120417-SSH-B02	96	83	50	86	78	103
240-88853-3	S-7878-120417-SSH-B03	83	74	55	68	72	101
240-88853-4	S-7878-120417-SSH-B04	94	82	54	73	84	105
240-88853-5	S-7878-120417-SSH-B05	100	88	49	77	84	103
240-88853-6	S-7878-120417-SSH-B06	98	84	49	80	85	112
240-88853-7	S-7878-120417-SSH-B07	97	83	46	80	84	107
240-88853-8	S-7878-120417-SSH-B08	90	80	77	75	78	102
240-88853-9	S-7878-120417-SSH-B09	90	78	42	75	81	110
240-88853-9 MS	S-7878-120417-SSH-B09	104	91	58	95	95	112
240-88853-9 MSD	S-7878-120417-SSH-B09	100	87	85	89	88	109
LCS 240-306476/24-A	Lab Control Sample	99	88	62	93	89	111
MB 240-306476/23-A	Method Blank	96	70	33	78	78	104

#### Surrogate Legend

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

TestAmerica Canton

# Surrogate Summary

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (14-128)	DCBP1 (10-132)
240-88853-1	S-7878-120417-SSH-B01	94	106
240-88853-2	S-7878-120417-SSH-B02	100	112
240-88853-3	S-7878-120417-SSH-B03	127	143 X
240-88853-4	S-7878-120417-SSH-B04	111	122
240-88853-6	S-7878-120417-SSH-B06	102	111
240-88853-7	S-7878-120417-SSH-B07	19	28
240-88853-8	S-7878-120417-SSH-B08	102	109
240-88853-9	S-7878-120417-SSH-B09	80	98
LCS 240-306846/23-A	Lab Control Sample	114	125
MB 240-306846/22-A	Method Blank	117	128

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (14-128)	DCBP2 (10-132)
240-88853-5	S-7878-120417-SSH-B05	102	146 X

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

**Client Sample ID: S-7878-120417-SSH-B01**

**Lab Sample ID: 240-88853-1**

**Date Collected: 12/04/17 11:45**

**Matrix: Solid**

**Date Received: 12/05/17 10:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	306345	12/05/17 14:43	MBR	TAL CAN

**Client Sample ID: S-7878-120417-SSH-B01**

**Lab Sample ID: 240-88853-1**

**Date Collected: 12/04/17 11:45**

**Matrix: Solid**

**Date Received: 12/05/17 10:45**

**Percent Solids: 93.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			306686	12/07/17 10:50	LAM	TAL CAN
Total/NA	Analysis	8260B		1	306624	12/07/17 14:55	HMB	TAL CAN
Total/NA	Prep	3540C			306476	12/06/17 10:58	AMT	TAL CAN
Total/NA	Analysis	8270C		1	306989	12/09/17 17:14	TMH	TAL CAN
Total/NA	Prep	3540C			306846	12/08/17 08:46	JMT	TAL CAN
Total/NA	Analysis	8082A		1	307250	12/12/17 10:27	KMG	TAL CAN
Total/NA	Prep	3050B			306692	12/07/17 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	306880	12/08/17 11:07	KLC	TAL CAN
Total/NA	Prep	3050B			306692	12/07/17 14:00	DEE	TAL CAN
Total/NA	Analysis	6020		2	307088	12/09/17 00:10	AS1	TAL CAN
Total/NA	Prep	7471A			306700	12/07/17 16:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	306940	12/08/17 12:07	DSH	TAL CAN

**Client Sample ID: S-7878-120417-SSH-B02**

**Lab Sample ID: 240-88853-2**

**Date Collected: 12/04/17 11:55**

**Matrix: Solid**

**Date Received: 12/05/17 10:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	306345	12/05/17 14:43	MBR	TAL CAN

**Client Sample ID: S-7878-120417-SSH-B02**

**Lab Sample ID: 240-88853-2**

**Date Collected: 12/04/17 11:55**

**Matrix: Solid**

**Date Received: 12/05/17 10:45**

**Percent Solids: 95.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			306686	12/07/17 10:50	LAM	TAL CAN
Total/NA	Analysis	8260B		1	306775	12/08/17 03:03	TJL1	TAL CAN
Total/NA	Prep	3540C			306476	12/06/17 10:58	AMT	TAL CAN
Total/NA	Analysis	8270C		1	306989	12/09/17 17:38	TMH	TAL CAN
Total/NA	Prep	3540C			306846	12/08/17 08:46	JMT	TAL CAN
Total/NA	Analysis	8082A		1	307250	12/12/17 10:49	KMG	TAL CAN
Total/NA	Prep	3050B			306692	12/07/17 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	306880	12/08/17 15:48	KLC	TAL CAN
Total/NA	Prep	3050B			306692	12/07/17 14:00	DEE	TAL CAN
Total/NA	Analysis	6020		2	307088	12/09/17 00:51	AS1	TAL CAN
Total/NA	Prep	7471A			306700	12/07/17 16:00	DEE	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

**Client Sample ID: S-7878-120417-SSH-B02**

**Lab Sample ID: 240-88853-2**

Date Collected: 12/04/17 11:55

Matrix: Solid

Date Received: 12/05/17 10:45

Percent Solids: 95.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		1	306940	12/08/17 12:14	DSH	TAL CAN

**Client Sample ID: S-7878-120417-SSH-B03**

**Lab Sample ID: 240-88853-3**

Date Collected: 12/04/17 12:05

Matrix: Solid

Date Received: 12/05/17 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	306345	12/05/17 14:43	MBR	TAL CAN

**Client Sample ID: S-7878-120417-SSH-B03**

**Lab Sample ID: 240-88853-3**

Date Collected: 12/04/17 12:05

Matrix: Solid

Date Received: 12/05/17 10:45

Percent Solids: 95.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			306686	12/07/17 10:50	LAM	TAL CAN
Total/NA	Analysis	8260B		1	306775	12/08/17 03:26	TJL1	TAL CAN
Total/NA	Prep	3540C			306476	12/06/17 10:58	AMT	TAL CAN
Total/NA	Analysis	8270C		1	307104	12/11/17 12:38	TMH	TAL CAN
Total/NA	Prep	3540C			306846	12/08/17 08:46	JMT	TAL CAN
Total/NA	Analysis	8082A		1	307250	12/12/17 11:11	KMG	TAL CAN
Total/NA	Prep	3050B			306692	12/07/17 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	306880	12/08/17 15:53	KLC	TAL CAN
Total/NA	Prep	3050B			306692	12/07/17 14:00	DEE	TAL CAN
Total/NA	Analysis	6020		2	307088	12/09/17 00:55	AS1	TAL CAN
Total/NA	Prep	7471A			306700	12/07/17 16:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	306940	12/08/17 12:16	DSH	TAL CAN

**Client Sample ID: S-7878-120417-SSH-B04**

**Lab Sample ID: 240-88853-4**

Date Collected: 12/04/17 12:15

Matrix: Solid

Date Received: 12/05/17 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	306345	12/05/17 14:43	MBR	TAL CAN

**Client Sample ID: S-7878-120417-SSH-B04**

**Lab Sample ID: 240-88853-4**

Date Collected: 12/04/17 12:15

Matrix: Solid

Date Received: 12/05/17 10:45

Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			306686	12/07/17 10:50	LAM	TAL CAN
Total/NA	Analysis	8260B		1	306775	12/08/17 03:49	TJL1	TAL CAN
Total/NA	Prep	3540C			306476	12/06/17 10:58	AMT	TAL CAN
Total/NA	Analysis	8270C		1	306989	12/09/17 18:25	TMH	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			306846	12/08/17 08:46	JMT	TAL CAN
Total/NA	Analysis	8082A		1	307250	12/12/17 11:32	KMG	TAL CAN
Total/NA	Prep	3050B			306692	12/07/17 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	306880	12/08/17 15:58	KLC	TAL CAN
Total/NA	Prep	3050B			306692	12/07/17 14:00	DEE	TAL CAN
Total/NA	Analysis	6020		2	307088	12/09/17 01:00	AS1	TAL CAN
Total/NA	Prep	7471A			306700	12/07/17 16:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	306940	12/08/17 12:17	DSH	TAL CAN

**Client Sample ID: S-7878-120417-SSH-B05**

**Lab Sample ID: 240-88853-5**

Date Collected: 12/04/17 12:25

Matrix: Solid

Date Received: 12/05/17 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	306345	12/05/17 14:43	MBR	TAL CAN

**Client Sample ID: S-7878-120417-SSH-B05**

**Lab Sample ID: 240-88853-5**

Date Collected: 12/04/17 12:25

Matrix: Solid

Date Received: 12/05/17 10:45

Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			306686	12/07/17 10:50	LAM	TAL CAN
Total/NA	Analysis	8260B		1	306775	12/08/17 04:11	TJL1	TAL CAN
Total/NA	Prep	3540C			306476	12/06/17 10:58	AMT	TAL CAN
Total/NA	Analysis	8270C		1	306989	12/09/17 18:49	TMH	TAL CAN
Total/NA	Prep	3540C			306846	12/08/17 08:46	JMT	TAL CAN
Total/NA	Analysis	8082A		1	307250	12/12/17 18:05	KMG	TAL CAN
Total/NA	Prep	3050B			306692	12/07/17 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	306880	12/08/17 16:02	KLC	TAL CAN
Total/NA	Prep	3050B			306692	12/07/17 14:00	DEE	TAL CAN
Total/NA	Analysis	6020		2	307088	12/09/17 01:05	AS1	TAL CAN
Total/NA	Prep	7471A			306700	12/07/17 16:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	306940	12/08/17 12:19	DSH	TAL CAN

**Client Sample ID: S-7878-120417-SSH-B06**

**Lab Sample ID: 240-88853-6**

Date Collected: 12/04/17 12:35

Matrix: Solid

Date Received: 12/05/17 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	306345	12/05/17 14:43	MBR	TAL CAN

**Client Sample ID: S-7878-120417-SSH-B06**

**Lab Sample ID: 240-88853-6**

Date Collected: 12/04/17 12:35

Matrix: Solid

Date Received: 12/05/17 10:45

Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			306686	12/07/17 10:50	LAM	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

**Client Sample ID: S-7878-120417-SSH-B06**

**Lab Sample ID: 240-88853-6**

**Date Collected: 12/04/17 12:35**

**Matrix: Solid**

**Date Received: 12/05/17 10:45**

**Percent Solids: 95.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	306775	12/08/17 04:34	TJL1	TAL CAN
Total/NA	Prep	3540C			306476	12/06/17 10:58	AMT	TAL CAN
Total/NA	Analysis	8270C		1	306989	12/09/17 19:12	TMH	TAL CAN
Total/NA	Prep	3540C			306846	12/08/17 08:46	JMT	TAL CAN
Total/NA	Analysis	8082A		1	307250	12/12/17 18:27	KMG	TAL CAN
Total/NA	Prep	3050B			306692	12/07/17 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	306880	12/08/17 16:07	KLC	TAL CAN
Total/NA	Prep	3050B			306692	12/07/17 14:00	DEE	TAL CAN
Total/NA	Analysis	6020		2	307088	12/09/17 01:09	AS1	TAL CAN
Total/NA	Prep	7471A			306700	12/07/17 16:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	306940	12/08/17 12:21	DSH	TAL CAN

**Client Sample ID: S-7878-120417-SSH-B07**

**Lab Sample ID: 240-88853-7**

**Date Collected: 12/04/17 12:45**

**Matrix: Solid**

**Date Received: 12/05/17 10:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	306345	12/05/17 14:43	MBR	TAL CAN

**Client Sample ID: S-7878-120417-SSH-B07**

**Lab Sample ID: 240-88853-7**

**Date Collected: 12/04/17 12:45**

**Matrix: Solid**

**Date Received: 12/05/17 10:45**

**Percent Solids: 96.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			306686	12/07/17 10:50	LAM	TAL CAN
Total/NA	Analysis	8260B		1	306775	12/08/17 04:56	TJL1	TAL CAN
Total/NA	Prep	3540C			306476	12/06/17 10:58	AMT	TAL CAN
Total/NA	Analysis	8270C		1	306989	12/09/17 18:01	TMH	TAL CAN
Total/NA	Prep	3540C			306846	12/08/17 08:46	JMT	TAL CAN
Total/NA	Analysis	8082A		1	307250	12/12/17 18:49	KMG	TAL CAN
Total/NA	Prep	3050B			306692	12/07/17 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	306880	12/08/17 16:12	KLC	TAL CAN
Total/NA	Prep	3050B			306692	12/07/17 14:00	DEE	TAL CAN
Total/NA	Analysis	6020		2	307088	12/09/17 01:14	AS1	TAL CAN
Total/NA	Prep	7471A			306700	12/07/17 16:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	306940	12/08/17 12:27	DSH	TAL CAN

**Client Sample ID: S-7878-120417-SSH-B08**

**Lab Sample ID: 240-88853-8**

**Date Collected: 12/04/17 12:55**

**Matrix: Solid**

**Date Received: 12/05/17 10:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	306345	12/05/17 14:43	MBR	TAL CAN

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

**Client Sample ID: S-7878-120417-SSH-B08**

**Lab Sample ID: 240-88853-8**

**Date Collected: 12/04/17 12:55**

**Matrix: Solid**

**Date Received: 12/05/17 10:45**

**Percent Solids: 96.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			306686	12/07/17 10:50	LAM	TAL CAN
Total/NA	Analysis	8260B		1	306775	12/08/17 05:18	TJL1	TAL CAN
Total/NA	Prep	3540C			306476	12/06/17 10:58	AMT	TAL CAN
Total/NA	Analysis	8270C		1	306989	12/09/17 19:36	TMH	TAL CAN
Total/NA	Prep	3540C			306846	12/08/17 08:46	JMT	TAL CAN
Total/NA	Analysis	8082A		1	307250	12/12/17 13:01	KMG	TAL CAN
Total/NA	Prep	3050B			306692	12/07/17 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	306880	12/08/17 16:16	KLC	TAL CAN
Total/NA	Prep	3050B			306692	12/07/17 14:00	DEE	TAL CAN
Total/NA	Analysis	6020		2	307088	12/09/17 01:18	AS1	TAL CAN
Total/NA	Prep	7471A			306700	12/07/17 16:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	306940	12/08/17 12:29	DSH	TAL CAN

**Client Sample ID: S-7878-120417-SSH-B09**

**Lab Sample ID: 240-88853-9**

**Date Collected: 12/04/17 13:05**

**Matrix: Solid**

**Date Received: 12/05/17 10:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	306345	12/05/17 14:43	MBR	TAL CAN

**Client Sample ID: S-7878-120417-SSH-B09**

**Lab Sample ID: 240-88853-9**

**Date Collected: 12/04/17 13:05**

**Matrix: Solid**

**Date Received: 12/05/17 10:45**

**Percent Solids: 95.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			306686	12/07/17 10:50	LAM	TAL CAN
Total/NA	Analysis	8260B		1	306775	12/08/17 05:41	TJL1	TAL CAN
Total/NA	Prep	3540C			306476	12/06/17 10:58	AMT	TAL CAN
Total/NA	Analysis	8270C		1	306989	12/09/17 12:54	TMH	TAL CAN
Total/NA	Prep	3540C			306846	12/08/17 08:46	JMT	TAL CAN
Total/NA	Analysis	8082A		1	307250	12/12/17 13:22	KMG	TAL CAN
Total/NA	Prep	3050B			306692	12/07/17 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	306880	12/08/17 16:21	KLC	TAL CAN
Total/NA	Prep	3050B			306692	12/07/17 14:00	DEE	TAL CAN
Total/NA	Analysis	6020		2	307088	12/09/17 01:23	AS1	TAL CAN
Total/NA	Prep	7471A			306700	12/07/17 16:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	306940	12/08/17 12:31	DSH	TAL CAN

**Laboratory References:**

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Accreditation/Certification Summary

Client: GHD Services Inc.  
Project/Site: 7878, RACER SMI

TestAmerica Job ID: 240-88853-1

## Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

Regulatory Program:  DW  NPDES  RCRA  Other: \_\_\_\_\_

Project Manager: M. Jomka  
Tel/Fax: 519 884 0510  
Analysis Turnaround Time:  WORKING DAYS  
 CALENDAR DAYS  
TAT if different from Below: \_\_\_\_\_  
 2 weeks  
 1 week  
 2 days  
 1 day

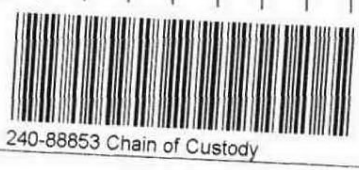
Company Name: GHD  
Address: 2650 Hesperet Rd  
City/State/Zip: Farmington Hills MI  
Phone: 248-883-3400  
Project Name: Race West SMT  
Site: 7878-102-001417  
PO #: 37016539

Client Contact  
Company Name: GHD  
Address: 2650 Hesperet Rd  
City/State/Zip: Farmington Hills MI  
Phone: 248-883-3400  
Project Name: Race West SMT  
Site: 7878-102-001417  
PO #: 37016539

Site Contact: JE Pardy  
Date: 12/14/17  
Lab Contact: D. Humu  
Carrier: FIDE  
COC No: 238751  
1 of 1 COGS

Sampler: S. Hoenig  
For Lab Use Only:  
Walk-in Client:  
Lab Sampling:  
Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Volts	Svcs	TAL Metals	PBS	Sample Specific Notes:
S-7878-120417-SSH - B01	12/14/17	1145 G	G	S	2	M	X	X	X	X	X	
-B02		1155 G	G	S	2	M	X	X	X	X	X	
-B03		1205 G	G	S	2	M	X	X	X	X	X	
-B04		1215 G	G	S	2	M	X	X	X	X	X	
-B05		1225 G	G	S	2	M	X	X	X	X	X	
-B06		1235 G	G	S	2	M	X	X	X	X	X	
-B07		1245 G	G	S	2	M	X	X	X	X	X	
-B08		1255 G	G	S	2	M	X	X	X	X	X	
S-7878-120417-SSH - B09		1305 G	G	S	2	M	X	X	X	X	X	



Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other

Possible Hazard Identification: \_\_\_\_\_  
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammable  Skin Irritant  Unknown  Poison B

Special Instructions/QC Requirements & Comments:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

Custody Seal No.: 836238  
Cooler Temp. (°C): \_\_\_\_\_ Obs'd: \_\_\_\_\_ Corr'd: \_\_\_\_\_ Therm ID No.: \_\_\_\_\_

Relinquished by: *Stef Ann* Date/Time: 12/14/17 1500  
Company: GHD  
Received by: *POP* Date/Time: 12-5-17  
Company: TAL  
Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Company: \_\_\_\_\_  
Received in Laboratory by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Company: \_\_\_\_\_



**TestAmerica Canton Sample Receipt Form/Narrative**  
**Canton Facility**

Login # : 88853

Client GHD Site Name \_\_\_\_\_ Cooler unpacked by: POF  
 Cooler Received on 12-5-17 Opened on 12-5-17  
 FedEx: 1<sup>st</sup> Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other \_\_\_\_\_  
 Receipt After-hours: Drop-off Date/Time \_\_\_\_\_ Storage Location \_\_\_\_\_

TestAmerica Cooler # \_\_\_\_\_ Foam Box Client Cooler Box Other \_\_\_\_\_  
 Packing material used: Bubble Wrap Foam Plastic Bag None Other \_\_\_\_\_  
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt  See Multiple Cooler Form  
 IR GUN# IR-8 (CF -0.3 °C) Observed Cooler Temp. 1.8 °C Corrected Cooler Temp. 1.5 °C  
 IR GUN #36 (CF +0.3 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C  
 IR GUN # 627 (CF -1.3 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No  
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA  
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No  
 -Were tamper/custody seals intact and uncompromised? Yes No NA  
 3. Shippers' packing slip attached to the cooler(s)? Yes No  
 4. Did custody papers accompany the sample(s)? Yes No  
 5. Were the custody papers relinquished & signed in the appropriate place? Yes No  
 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No  
 7. Did all bottles arrive in good condition (Unbroken)? Yes No  
 8. Could all bottle labels be reconciled with the COC? Yes No  
 9. Were correct bottle(s) used for the test(s) indicated? Yes No  
 10. Sufficient quantity received to perform indicated analyses? Yes No  
 11. Are these work share samples? Yes No  
 If yes, Questions 12-16 have been checked at the originating laboratory.  
 12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC730269  
 13. Were VOAs on the COC? Yes No  
 14. Were air bubbles >6 mm in any VOA vials? Yes No NA Larger than this.  
 15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # \_\_\_\_\_ Yes No  
 16. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:  
 VOAs  
 Oil and Grease  
 TOC

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other \_\_\_\_\_  
 Concerning \_\_\_\_\_

**16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES** Samples processed by: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**17. SAMPLE CONDITION**  
 Sample(s) \_\_\_\_\_ were received after the recommended holding time had expired.  
 Sample(s) \_\_\_\_\_ were received in a broken container.  
 Sample(s) \_\_\_\_\_ were received with bubble >6 mm in diameter. (Notify PM)

**18. SAMPLE PRESERVATION**  
 Sample(s) \_\_\_\_\_ were further preserved in the laboratory.  
 Time preserved: \_\_\_\_\_ Preservative(s) added/Lot number(s): \_\_\_\_\_