

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information

Site Name		DNR ID # (BRRTS #)	
ONE HOUR MARTINIZING - MILWAUKEE		02-41-584106	
Address	City	State	ZIP Code
233 W. LAYTON AVENUE	MILWAUKEE	WI	53207

Responsible Party

The person(s) responsible for completing this environmental investigation is:

Property Owner

GOTTFRIED REAL ESTATE LLC

Address	City	State	ZIP Code
PO BOX 26	MUSKEGO	WI	53212
Contact Person	Phone Number (include area code)		
BRIAN GOTTFRIED	(414) 416-5665		

Person or company that collected samples

UNITED ENGINEERING CONSULTANTS, INC.

Sample Results (Results Attached)

Reason for Sampling: Routine Other (define) _____

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil?		In Groundwater?	
	Yes	No	Yes	No
Gasoline	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Diesel or Fuel Oil	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Solvents	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Heavy Metals	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Pesticides	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

This sampling event included sampling of a drinking water well. <div style="text-align: center;"> <input type="radio"/> Yes <input checked="" type="radio"/> No </div>
If yes, the sampled drinking water well had detectable contaminants. <div style="text-align: center;"> <input type="radio"/> Yes <input type="radio"/> No </div>

Contaminants in Vapor

	Yes	No
Indoor Air	<input type="radio"/>	<input type="radio"/>
Sub-slab	<input checked="" type="radio"/>	<input type="radio"/>
Exterior Soil Gas	<input type="radio"/>	<input type="radio"/>

Site Investigation Sample Results Notification

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Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a \$700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

Environmental Consultant

Company Name		Contact Person Last Name	First Name	
UNITED ENGINEERING CONSULTANTS		ANDERSON	NICHOLAS	
Address		City	State	ZIP Code
2938 S. 166TH STREET		NEW BERLIN	WI	53151
Phone # (inc. area code)	Email			
(262) 785-1447	NAUEC@SBCGLOBAL.NET			

Select which agency: Natural Resources Agriculture, Trade and Consumer Protection

State of Wisconsin Department of Natural Resources

Contact Person Last Name	First Name	Phone # (inc. area code)		
ALESSI	TIMOTHY	(414) 263-8563		
Address		City	State	ZIP Code
2300 N. DR. MARTIN LUTHER KING JR. DRIVE		MILWAUKEE	WI	53212
Email				
TIMOTHY.ALESSI@WISCONSIN.GOV				

Legend

- Property Line
- Combined Sewer Line
- NG- Natural Gas Line
- W- Water Line
- UE- Underground Electric Line
- OE- Overhead Electric Line
- GP29 Soil Boring Location (DBG)
- GP-1 Soil Boring Location (UEC)
- MW-1 Monitoring Well Location
- VP-1 Sub-Slab Vapor Point Location

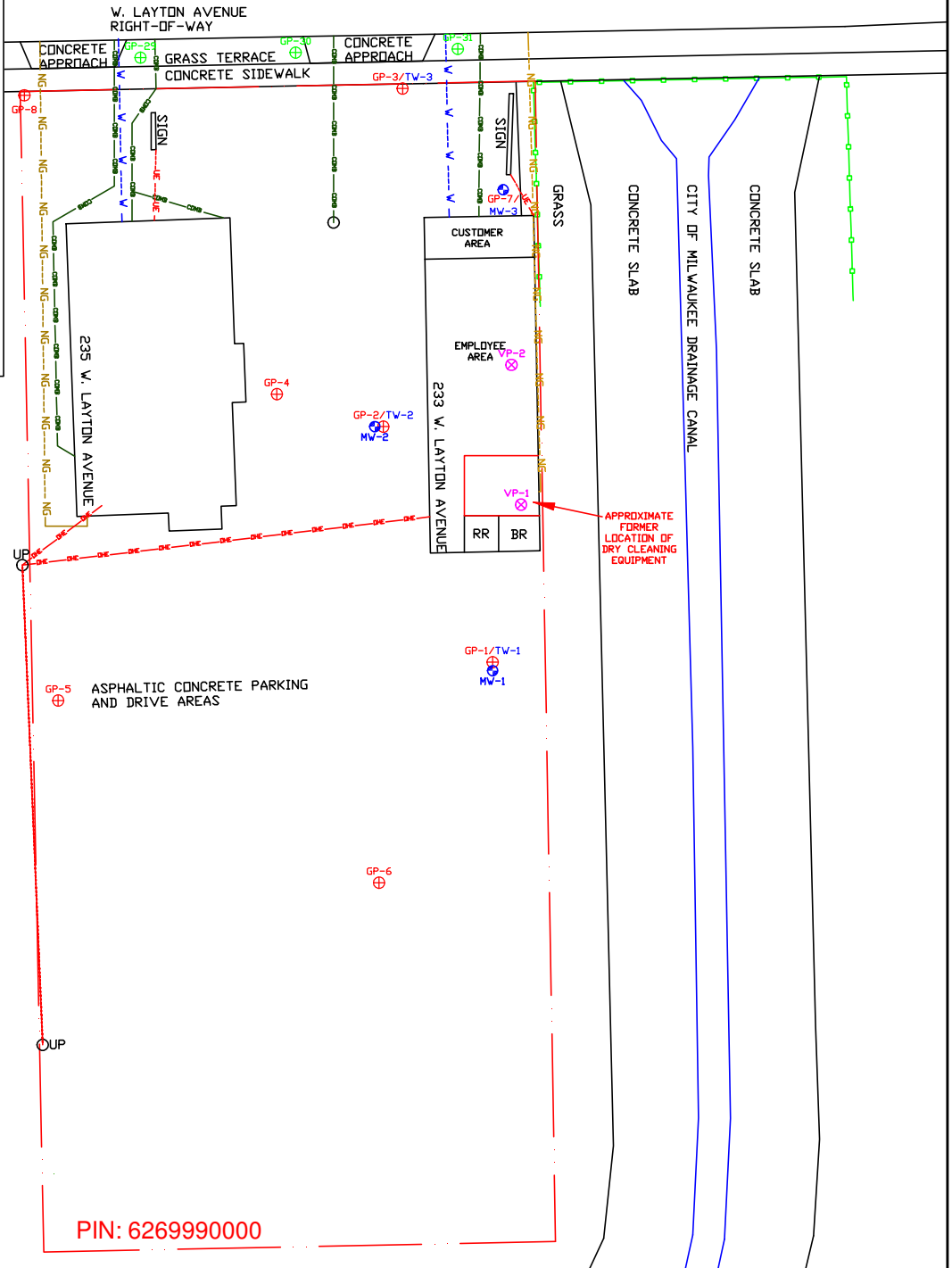


Figure 3: Soil Boring and Monitoring Well Location Map

**United Engineering
Consultants, Inc.**

16237 W. Ryerson Road
New Berlin, WI 53151
Tel. (262) 785-1447
Fax (262) 706-4400

#19006

DRAWN BY: NJA

DATE: 01/16/2020

Site Investigation Sample Results Notification
One Hour Martinizing - Milwaukee /
Wisconsin Auto Title Loans
233/235 W. Layton Avenue
Milwaukee, WI 53207

Table 2
VOC Analytical Results - Soil
One Hour Martinizing - Milwaukee / Wisconsin Auto Title Loans
233/235 W. Layton Avenue
Milwaukee, Wisconsin 53207

Sample Date	May 1, 2019									RCL		
	GP-1	GP-1	GP-1	GP-2	GP-2	GP-2	GP-3	GP-3	GP-3	GWP	NIDC	IDC
Sample Identification	2'-3'	5'-6'	13'-14'	3'-4'	7'-8'	15'-16'	3'-4'	6'-7'	13'-14'			
Sample Depth	2'-3'	5'-6'	13'-14'	3'-4'	7'-8'	15'-16'	3'-4'	6'-7'	13'-14'			
Soil Type	SM	ML	SP	SM	SM	SP	SM	SM	SP			
Volatile Organic Compounds (VOC) (Method: SW-846 8260B / PUBL-FW-140)												
Acetone	<0.212	<0.172	<0.205	<0.194	<0.161	<0.198	<0.225	<0.177	<0.206	3.6766	63400	100000
Acrylonitrile	<0.0611	<0.0495	<0.0588	<0.0559	<0.0464	<0.057	<0.0646	<0.0508	<0.0594	-	0.388	1.5
Benzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0051	1.6	7.07
Bromodichloromethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0003	0.39	1.96
Bromoform	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0023	23.6	115
1-Butanol	<0.498	<0.404	<0.48	<0.456	<0.379	<0.465	<0.527	<0.415	<0.484	-	14700	14700
2-Butanone	<0.124	<0.1	<0.119	<0.113	<0.0941	<0.116	<0.131	<0.103	<0.12	-	28400	28400
Carbon disulfide	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.5919	738	738
Carbon tetrachloride	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0039	0.854	4.25
Chlorobenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	-	392	761
Chloroform	<0.027	<0.025	<0.026	<0.025	<0.025	<0.0252	<0.0286	<0.025	<0.0263	0.0033	0.423	2.13
1,2-Dibromo-3-chloropropane	<0.0476	<0.0386	<0.0459	<0.0436	<0.0362	<0.025	<0.0504	<0.0396	<0.0463	0.0002	0.008	0.092
1,2-Dibromoethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0000282	0.05	0.221
Dibromochloromethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.032	8.28	38.9
1,1-Dichloroethane	<0.0435	<0.0352	<0.0419	<0.0398	<0.0331	<0.0406	<0.046	<0.0362	<0.0423	0.4834	4.72	23.7
1,2-Dichloroethane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0028	0.608	2.87
1,1-Dichloroethene	<0.034	<0.0276	<0.0328	<0.0311	<0.0259	<0.0318	<0.036	<0.0283	<0.0331	0.005	342	1190
cis-1,2-Dichloroethene	<0.0298	<0.025	<0.0287	<0.0273	<0.025	<0.0278	<0.0315	<0.025	<0.029	0.0412	156	2040
trans-1,2-Dichloroethene	<0.041	<0.0332	<0.0395	<0.0375	<0.0312	<0.0383	<0.0434	<0.0342	<0.0399	0.0626	1560	1850
total-1,2-Dichloroethene	<0.0708	<0.0574	<0.0682	<0.0648	<0.0539	<0.0662	<0.075	<0.059	<0.0689	-	-	-
1,2-Dichloropropane	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0033	3.4	15
Ethylbenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	1.57	8.02	35.4
2-Hexanone	<0.0855	<0.0693	<0.0823	<0.0782	<0.065	<0.0798	<0.0905	<0.0711	<0.0831	-	237	1760
4-Methyl-2-pentanone	<0.0576	<0.0466	<0.0555	<0.0527	<0.0438	<0.0538	<0.0609	<0.0479	<0.056	-	3360	3360
Methyl tert-butyl ether	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.027	63.8	282
Methylene chloride	<0.0509	<0.0412	<0.049	<0.0466	<0.0387	<0.0475	<0.0538	<0.0423	<0.0494	0.0026	60.7	1150
Styrene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.22	867	867
1,1,2,2-Tetrachloroethane	<0.028	<0.025	<0.0269	<0.0256	<0.025	<0.0261	<0.0296	<0.025	<0.0272	0.0002	0.753	3.69
Tetrachloroethene	<u>0.347</u>	<u>1.23</u>	<u>1.53</u>	<0.025	<u>0.253</u>	<u>6.11</u>	<0.025	<u>0.100</u>	<u>0.632</u>	0.0045	33	145
Toluene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	1.1072	818	818
Trichloroethene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	1.1072	818	818
1,1,1-Trichloroethane	<0.0289	<0.025	<0.0279	<0.0265	<0.025	<0.027	<0.0306	<0.025	<0.0281	0.1402	640	640
1,1,2-Trichloroethane	<0.0287	<0.025	<0.0277	<0.0263	<0.025	<0.0268	<0.0304	<0.025	<0.0279	0.0032	1.48	7.01
1,2,4-Trimethylbenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	-	219	219
1,3,5-Trimethylbenzene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	-	182	182
Vinyl acetate	<0.033	<0.027	<0.0321	<0.0305	<0.0253	<0.0311	<0.0353	<0.0277	<0.0324	-	1300	2750
Vinyl chloride	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0001	0.067	2.03
m,p-Xylene	<0.0924	<0.0749	<0.0891	<0.0846	<0.0703	<0.0864	<0.0978	<0.077	<0.0899	-	388	388
o-Xylene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	-	434	434
Xylenes, Total	<0.105	<0.0853	<0.101	<0.0964	<0.0801	<0.0984	<0.111	<0.0877	<0.102	3.96	260	260

- Notes: All samples collected from the unsaturated zone
All results expressed as mg/kg
- RCL Residual Contaminant Level (December 2018 RCL Spreadsheet Update)
- GWP Groundwater Pathway RCL (Exceedances in underline)
- NIDC Non-Industrial Direct Contact RCL (Exceedances in **bold**)
- IDC Industrial Direct Contact Pathway RCL (Exceedances in **bold** and shaded)
- RCL not established for this compound
- < Compound not detected at or above the limit of detection (LOD)
- * Laboratory Control Sample or Laboratory Control Sample Duplicate outside of acceptance limits

Table 2
VOC Analytical Results - Soil
One Hour Martinizing - Milwaukee / Wisconsin Auto Title Loans
233/235 W. Layton Avenue
Milwaukee, Wisconsin 53207

Sample Date	December 19, 2019													RCL		
	GP-4	GP-4	GP-4	GP-5	GP-5	GP-5	GP-6	GP-6	GP-7	GP-7	GP-7	GP-8	GP-8	GWP	NIDC	IDC
Sample Identification	3'-4'	10'-11'	14'-15'	3'-4'	11'-12'	14'-15'	2'-3'	14'-15'	3'-4'	10'-11'	14'-15'	3'-4'	14'-15'			
Sample Depth	3'-4'	10'-11'	14'-15'	3'-4'	11'-12'	14'-15'	2'-3'	14'-15'	3'-4'	10'-11'	14'-15'	3'-4'	14'-15'			
Soil Type	SM	SM	SP	ML	SP	SP	SW	SP	ML	SP	SP	SW	SP			
Volatile Organic Compounds (VOC) (Method: SW-846 8260B / PUBL-FW-140)																
Acetone	<0.212	<0.197	<0.233	<0.178	<0.180	<0.0240	<0.186	<0.214	<0.0175	<0.189	<0.185	<0.0193	<0.00313	3.6766	63400	100000
Acrylonitrile	<0.0611	<0.0566	<0.0669	<0.0511	<0.0518	<0.0691	<0.0535	<0.0615	<0.0504	<0.0542	<0.0533	<0.0556	<0.000901	-	0.388	1.5
Benzene	<0.0125	<0.0116	<0.0137	<0.0105	<0.0106	<0.0142	<0.0110	<0.0126	<0.0103	<0.0111	<0.0109	<0.0114	<0.000185	0.0051	1.6	7.07
Bromodichloromethane	<0.0187	<0.0173	<0.0205	<0.0156	<0.0158	<0.0211	<0.0164	<0.0188	<0.0154	<0.0166	<0.0163	<0.0170	<0.000276	0.0003	0.39	1.96
Bromoform	<0.0203	<0.0188	<0.0223	<0.0170	<0.0172	<0.0230	<0.0178	<0.0205	<0.0168	<0.180	<0.0177	<0.0185	<0.000300	0.0023	23.6	115
1-Butanol	<0.498	<0.461	<0.546	<0.417	<0.423	<0.563	<0.436	<0.502	<0.411	<0.0442	<0.0434	<0.453	<0.00735	-	14700	14700
2-Butanone	<0.124	<0.115	<0.136	<0.104	<0.105	<0.140	<0.108	<0.125	<0.102	<0.110	<0.108	<0.0113	<0.00183	-	28400	28400
Carbon disulfide	<0.0152	<0.0141	<0.0167	<0.0127	<0.0129	<0.0172	<0.0133	<0.0153	<0.0125	<0.0135	<0.0133	<0.0138	<0.000224	0.5919	738	738
Carbon tetrachloride	<0.0131	<0.0122	<0.0144	<0.0110	<0.0112	<0.0149	<0.0115	<0.0132	<0.0108	<0.0117	<0.0115	<0.0120	<0.000194	0.0039	0.854	4.25
Chlorobenzene	<0.0145	<0.0134	<0.0159	<0.0121	<0.0123	<0.0164	<0.0127	<0.0146	<0.0119	<0.0128	<0.0126	<0.0132	<0.000213	-	392	761
Chloroform	<0.027	<0.0250	<0.0296	<0.0226	<0.0229	<0.0306	<0.0237	<0.0272	<0.0223	<0.0240	<0.0236	<0.0246	<0.000399	0.0033	0.423	2.13
1,2-Dibromo-3-chloropropane	<0.0476	<0.0441	<0.0522	<0.0398	<0.0404	<0.0539	<0.0417	<0.0480	<0.0393	<0.0423	<0.0415	<0.0433	<0.000703	0.0002	0.008	0.092
1,2-Dibromoethane	<0.0146	<0.0135	<0.0160	<0.0122	<0.0124	<0.0165	<0.0128	<0.0147	<0.0120	<0.0129	<0.0127	<0.0122	<0.000215	0.0000282	0.05	0.221
Dibromochloromethane	<0.0236	<0.0219	<0.0259	<0.0198	<0.0201	<0.0268	<0.0207	<0.0238	<0.0195	<0.0210	<0.0206	<0.0215	<0.000349	0.032	8.28	38.9
1,1-Dichloroethane	<0.0435	<0.0403	<0.0477	<0.0364	<0.0369	<0.0492	<0.0381	<0.0438	<0.0359	<0.0386	<0.0379	<0.0396	<0.000642	0.4834	4.72	23.7
1,2-Dichloroethane	<0.0105	<0.00977	<0.0116	<0.00883	<0.00895	<0.0119	<0.00924	<0.0106	<0.00870	<0.00937	<0.00920	<0.00960	<0.000156	0.0028	0.608	2.87
1,1-Dichloroethene	<0.0340	<0.0315	<0.0373	<0.0285	<0.0289	<0.0385	<0.0298	<0.0343	<0.0281	<0.0302	<0.0297	<0.0310	<0.000502	0.005	342	1190
cis-1,2-Dichloroethene	<0.0298	<0.0276	<0.0327	<0.0249	<0.0253	<0.0337	<0.0261	<0.0300	<0.0246	<0.0265	<0.0260	<0.0271	<0.000440	0.0412	156	2040
trans-1,2-Dichloroethene	<0.0410	<0.0380	<0.0450	<0.0343	<0.0348	<0.0464	<0.0359	<0.0413	<0.0339	<0.0364	<0.0358	<0.0373	<0.000605	0.0626	1560	1850
total-1,2-Dichloroethene	<0.0708	<0.0656	<0.0776	<0.0593	<0.0601	<0.0801	<0.0621	<0.0714	<0.0584	<0.0629	<0.0618	<0.0645	<0.00105	-	-	-
1,2-Dichloropropane	<0.0195	<0.181	<0.0214	<0.0163	<0.0166	<0.0221	<0.0171	<0.0197	<0.0161	<0.0173	<0.0170	<0.0178	<0.000288	0.0033	3.4	15
Ethylbenzene	<0.0186	<0.0172	<0.0204	<0.0156	<0.0158	<0.0210	<0.0163	<0.0187	<0.0153	<0.0165	<0.0162	<0.0169	<0.000274	1.57	8.02	35.4
2-Hexanone	<0.0855	<0.0792	<0.0937	<0.0715	<0.0725	<0.0967	<0.0749	<0.0861	<0.0705	<0.0759	<0.0745	<0.0778	<0.00126	-	237	1760
4-Methyl-2-pentanone	<0.0576	<0.0533	<0.0631	<0.0482	<0.0489	<0.0651	<0.0504	<0.0580	<0.0475	<0.0511	<0.0502	<0.0524	<0.000849	-	3360	3360
Methyl tert-butyl ether	<0.0217	<0.0201	<0.0238	<0.182	<0.0184	<0.0246	<0.0190	<0.0219	<0.0179	<0.0193	<0.0189	<0.0198	<0.000320	0.027	63.8	282
Methylene chloride	<0.0509	<0.0471	<0.0558	<0.0426	<0.0432	<0.0575	<0.0446	<0.0512	<0.0420	<0.0452	<0.0444	<0.0463	<0.000751	0.0026	60.7	1150
Styrene	<0.0186	<0.0172	<0.0204	<0.0155	<0.0158	<0.0210	<0.0163	<0.0187	<0.0153	<0.0165	<0.0162	<0.0169	<0.000274	0.22	867	867
1,1,2,2-Tetrachloroethane	<0.0280	<0.0259	<0.0307	<0.0234	<0.0237	<0.0316	<0.0245	<0.0282	<0.0231	<0.0248	<0.0244	<0.0254	<0.000413	0.0002	0.753	3.69
Tetrachloroethene	<0.0225	<u>0.722</u>	<u>4.64</u>	<0.0189	<0.0191	<0.0255	<0.0197	<0.0227	<u>0.0584</u>	<u>0.258</u>	<u>0.0707</u>	<0.0205	<0.000332	0.0045	33	145
Toluene	<0.0169	<0.0157	<0.0185	<0.0141	<0.0143	<0.0191	<0.0148	<0.0170	<0.0139	<0.0150	<0.0147	<0.0154	<0.000249	1.1072	818	818
Trichloroethene	<0.0150	<0.0139	<0.0164	<0.0126	<0.0127	<0.0170	<0.0131	<0.0151	<0.0124	<0.0133	<0.0131	<0.0137	<0.000221	1.1072	818	818
1,1,1-Trichloroethane	<0.0289	<0.0268	<0.0317	<0.0242	<0.0246	<0.0327	<0.0253	<0.0292	<0.0239	<0.0257	<0.0252	<0.0263	<0.000427	0.1402	640	640
1,1,2-Trichloroethane	<0.0287	<0.0266	<0.0315	<0.0240	<0.0244	<0.0325	<0.0252	<0.0289	<0.0237	<0.0255	<0.0251	<0.0261	<0.000424	0.0032	1.48	7.01
1,2,4-Trimethylbenzene	<0.0168	<0.0156	<0.0184	<0.0141	<0.0143	<0.0190	<0.0147	<0.0169	<0.0139	<0.0149	<0.0146	<0.0153	<0.000248	-	219	219
1,3,5-Trimethylbenzene	<0.0164	<0.0152	<0.0180	<0.0138	<0.0140	<0.0186	<0.0144	<0.0166	<0.0136	<0.0146	<0.0143	<0.0150	<0.000243	-	182	182
Vinyl acetate	<0.0333	<0.0309	<0.0365	<0.0279	<0.0283	<0.0377	<0.0292	<0.0336	<0.0275	<0.0296	<0.0291	<0.0303	<0.000492	-	1300	2750
Vinyl chloride	<0.0205	<0.0190	<0.0225	<0.0172	<0.0174	<0.0232	<0.0180	<0.0207	<0.0170	<0.0182	<0.0179	<0.0187	<0.000303	0.0001	0.067	2.03
m,p-Xylene	<0.0924	<0.0857	<0.101	<0.0774	<0.0784	<0.105	<0.0810	<0.0931	<0.0763	<0.0821	<0.0806	<0.0841	<0.00136	-	388	388
o-Xylene	<0.0129	<0.0119	0.0149J	<0.0108	<0.0109	<0.0145	<0.0113	<0.0129	<0.0106	<0.0114	<0.0112	<0.0117	<0.000190	-	434	434
Xylenes, Total	<0.105	<0.0976	<0.115	<0.0881	<0.0893	<0.119	<0.0922	<0.106	<0.0869	<0.0935	<0.0918	<0.0958	<0.00155	3.96	260	260

- Notes: All samples collected from the unsaturated zone
All results expressed as mg/kg
- RCL Residual Contaminant Level (December 2018 RCL Spreadsheet Update)
- GWP Groundwater Pathway RCL (Exceedances in underline)
- NIDC Non-Industrial Direct Contact RCL (Exceedances in **bold**)
- IDC Industrial Direct Contact Pathway RCL (Exceedances in **bold** and shaded)
- RCL not established for this compound
- < Compound not detected at or above the limit of detection (LOD)
- J Compound detected between the LOD and Limit of Quantitation

Table 3
VOC Analytical Results - Groundwater
One Hour Martinizing - Milwaukee / Wisconsin Auto Title Loans
233/235 W. Layton Avenue
Milwaukee, Wisconsin 53207

Analyte	TW-1	TW-2	TW-3	ES	PAL
	05/01/19	05/01/19	05/01/19		
Volatile Organic Compounds (VOC) (Method: SW-846 8260B / PUBL-FW-140 / SW5030)					
Acetone	<3.75	<3.75	<3.75	9000	1800
Acrolein	<6.63	<6.63	<6.63	-	-
Acrylonitrile	<0.742	<0.742	<0.742	-	-
Benzene	<0.37	<0.37	<0.37	5	0.5
Bromodichloromethane	<0.31	<0.31	<0.31	0.6	0.06
Bromoform	<0.254	<0.254	<0.254	4.4	0.44
Bromomethane	<3.3	<3.3	<3.3	10	1
1-Butanol	<6.69	<6.69	<6.69	-	-
2-Butanone	<1.38	<1.38	<1.38	-	-
Carbon disulfide	<0.259	<0.259	<0.259	1000	200
Carbon tetrachloride	<0.39	<0.39	<0.39	5	0.5
Chlorobenzene	<0.358	<0.358	<0.358	-	-
Chloroethane	<0.906	<0.906	<0.906	400	80
Chloroform	<0.397	<0.397	<0.397	6	0.6
Chloromethane	<2.23	<2.23	<2.23	30	3
1,2-Dibromo-3-chloropropane	<0.488	<0.488	<0.488	0.2	0.02
1,2-Dibromoethane (EDB)	<0.32	<0.32	<0.32	0.05	0.005
1,1-Dichloroethane	<1.94	<1.94	<1.94	850	85
1,2-Dichloroethane	<0.32	<0.32	<0.32	5	0.5
1,1-Dichloroethene	<1.02	<1.02	<1.02	7	0.7
cis-1,2-Dichloroethene	<0.421	<0.421	<0.421	70	7
trans-1,2-Dichloroethene	<0.433	<0.433	<0.433	100	20
1,2-Dichloropropane	<1.11	<1.11	<1.11	5	0.5
Dibromochloromethane	<0.492	<0.492	<0.492	700	140
cis-1,3-Dichloropropene	<0.278	<0.278	<0.278	-	-
trans-1,3-Dichloropropene	<0.314	<0.314	<0.314	-	-
1,3-Dichloropropene, Total	<0.592	<0.592	<0.592	0.4	0.04
Ethylbenzene	<0.431	<0.431	<0.431	700	140
2-Hexanone	<1.04	<1.04	<1.04	-	-
4-Methyl-2-pentanone	<0.66	<0.66	<0.66	-	-
Methyl tert-Butyl ether	<0.322	<0.322	<0.322	60	12
Methylene chloride	<0.358	<0.358	<0.358	5	0.5
Styrene	<0.534	<0.534	<0.534	100	10
1,1,2,2-Tetrachloroethane	<0.291	<0.291	<0.291	0.2	0.02
Tetrachloroethene	1.92J*	52.8	<0.4	5	0.5
1,2,4-Trimethylbenzene	<0.338	<0.338	<0.338	480	96
1,3,5-Trimethylbenzene	<0.31	<0.31	<0.31		
Toluene	<0.299	<0.299	<0.299	800	160
1,1,1-Trichloroethane	<0.349	<0.349	<0.349	200	40
1,1,2-Trichloroethane	<0.264	<0.264	<0.264	5	0.5
Trichloroethene	<0.439	<0.439	<0.439	5	0.5
Vinyl acetate	<1.01	<1.01	<1.01	-	-
Vinyl chloride	<0.316	<0.316	<0.316	0.2	0.02
m,p-Xylene	<0.31	<0.31	<0.31	-	-
o-Xylene	<0.349	<0.349	<0.349	-	-
Xylenes, Total	<0.66	<0.66	<0.66	2000	400

Notes: All results expressed as µg/L (parts per billion)
ES NR140 Enforcement Standard (Exceedances in **bold**)
PAL NR140 Preventive Action Limit (Exceedances in underline)
- ES/PAL not established for this compound
J Analyte detected between the Limit of Detection and Limit of Quantitation
* Not considered an exceedance per NR 140.14(3)

Table 3
VOC Analytical Results - Groundwater
One Hour Martinizing - Milwaukee / Wisconsin Auto Title Loans
233/235 W. Layton Avenue
Milwaukee, Wisconsin 53207

Analyte	MW-1	MW-2	MW-2 Dup.	MW-3	ES	PAL
	12/26/19	12/26/19	12/26/19	12/26/19		
Volatile Organic Compounds (VOC) (Method: SW-846 8260B / PUBL-FW-140 / SW5030)						
Acetone	7.07J	<3.75	<3.75	<3.75	9000	1800
Acrolein	<6.63	<6.63	<6.63	<6.63	-	-
Acrylonitrile	<0.742	<0.742	<0.742	<0.742	-	-
Benzene	<0.370	<0.370	<0.370	<0.370	5	0.5
Bromodichloromethane	<0.310	<0.310	<0.310	<0.310	0.6	0.06
Bromoform	<0.254	<0.254	<0.254	<0.254	4.4	0.44
Bromomethane	<3.30S	<3.30S	<3.30S	<3.30S	10	1
1-Butanol	<6.69S	<6.69S	<6.69S	<6.69S	-	-
2-Butanone	<1.38	<1.38	<1.38	<1.38	-	-
Carbon disulfide	0.640J	<0.259	<0.259	<0.259	1000	200
Carbon tetrachloride	<0.390	<0.390	<0.390	<0.390	5	0.5
Chlorobenzene	<0.358	<0.358	<0.358	<0.358	-	-
Chloroethane	<0.906S	<0.906S	<0.906S	<0.906S	400	80
Chloroform	<0.397	<0.397	<0.397	<0.397	6	0.6
Chloromethane	<2.23	<2.23	<2.23	<2.23	30	3
1,2-Dibromo-3-chloropropane	<0.488S	<0.488S	<0.488S	<0.488S	0.2	0.02
1,2-Dibromoethane (EDB)	<0.320	<0.320	<0.320	<0.320	0.05	0.005
1,1-Dichloroethane	<1.94	<1.94	<1.94	<1.94	850	85
1,2-Dichloroethane	<0.274	<0.274	<0.274	<0.274	5	0.5
1,1-Dichloroethene	<1.02	<1.02	<1.02	<1.02	7	0.7
cis-1,2-Dichloroethene	<0.421	<0.421	<0.421	<0.421	70	7
trans-1,2-Dichloroethene	<0.433	<0.433	<0.433	<0.433	100	20
1,2-Dichloropropane	<1.11	<1.11	<1.11	<1.11	5	0.5
Dibromochloromethane	<0.492	<0.492	<0.492	<0.492	700	140
cis-1,3-Dichloropropene	<0.278	<0.278	<0.278	<0.278	-	-
trans-1,3-Dichloropropene	<0.314	<0.314	<0.314	<0.314	-	-
1,3-Dichloropropene, Total	<0.592	<0.592	<0.592	<0.592	0.4	0.04
Ethylbenzene	<0.431	<0.431	<0.431	<0.431	700	140
2-Hexanone	<1.04	<1.04	<1.04	<1.04	-	-
4-Methyl-2-pentanone	<0.660	<0.660	<0.660	<0.660	-	-
Methyl tert-Butyl ether	<0.322	<0.322	<0.322	<0.322	60	12
Methylene chloride	<0.358	<0.358	<0.358	<0.358	5	0.5
Styrene	<0.534	<0.534	<0.534	<0.534	100	10
1,1,2,2-Tetrachloroethane	<0.291	<0.291	<0.291	<0.291	0.2	0.02
Tetrachloroethene	<0.400	10.7	9.97	<0.400	5	0.5
1,2,4-Trimethylbenzene	<0.338	<0.338	<0.338	<0.338	480	96
1,3,5-Trimethylbenzene	<0.310	<0.310	<0.310	<0.310		
Toluene	<0.299	<0.299	<0.299	<0.299	800	160
1,1,1-Trichloroethane	<0.349	<0.349	<0.349	<0.349	200	40
1,1,2-Trichloroethane	<0.264	<0.264	<0.264	<0.264	5	0.5
Trichloroethene	<0.439	<0.439	<0.439	<0.439	5	0.5
Vinyl acetate	<1.01	<1.01	<1.01	<1.01	-	-
Vinyl chloride	<0.316	<0.316	<0.316	<0.316	0.2	0.02
m,p-Xylene	<0.310	<0.310	<0.310	<0.310	-	-
o-Xylene	<0.349	<0.349	<0.349	<0.349	-	-
Xylenes, Total	<0.660	<0.660	<0.660	<0.660	2000	400

Notes: All results expressed as µg/L (parts per billion)
ES NR140 Enforcement Standard (Exceedances in **bold**)
PAL NR140 Preventive Action Limit (Exceedances in underline)
- ES/PAL not established for this compound
J Analyte detected between the Limit of Detection and Limit of Quantitation
S The quality control sample recovery is outside of the laboratory control limits.

Table 3
VOC Analytical Results - Groundwater
One Hour Martinizing - Milwaukee / Wisconsin Auto Title Loans
233/235 W. Layton Avenue
Milwaukee, Wisconsin 53207

Analyte	Trip Blank	ES	PAL
	12/26/19		
Volatile Organic Compounds (VOC) (Method: SW-846 8260B / PUBL-FW-140 / SW5030)			
Acetone	<3.75	9000	1800
Acrolein	<6.63	-	-
Acrylonitrile	<0.742	-	-
Benzene	<0.370	5	0.5
Bromodichloromethane	<0.310	0.6	0.06
Bromoform	<0.254	4.4	0.44
Bromomethane	<3.30S	10	1
1-Butanol	<6.69S	-	-
2-Butanone	<1.38	-	-
Carbon disulfide	<0.259	1000	200
Carbon tetrachloride	<0.390	5	0.5
Chlorobenzene	<0.358	-	-
Chloroethane	<0.906S	400	80
Chloroform	<0.397	6	0.6
Chloromethane	<2.23	30	3
1,2-Dibromo-3-chloropropane	<0.488S	0.2	0.02
1,2-Dibromoethane (EDB)	<0.320	0.05	0.005
1,1-Dichloroethane	<1.94	850	85
1,2-Dichloroethane	<0.274	5	0.5
1,1-Dichloroethene	<1.02	7	0.7
cis-1,2-Dichloroethene	<0.421	70	7
trans-1,2-Dichloroethene	<0.433	100	20
1,2-Dichloropropane	<1.11	5	0.5
Dibromochloromethane	<0.492	700	140
cis-1,3-Dichloropropene	<0.278	-	-
trans-1,3-Dichloropropene	<0.314	-	-
1,3-Dichloropropene, Total	<0.592	0.4	0.04
Ethylbenzene	<0.431	700	140
2-Hexanone	<1.04	-	-
4-Methyl-2-pentanone	<0.660	-	-
Methyl tert-Butyl ether	<0.322	60	12
Methylene chloride	<0.358	5	0.5
Styrene	<0.534	100	10
1,1,2,2-Tetrachloroethane	<0.291	0.2	0.02
Tetrachloroethene	<0.400	5	0.5
1,2,4-Trimethylbenzene	<0.338	480	96
1,3,5-Trimethylbenzene	<0.310		
Toluene	<0.299	800	160
1,1,1-Trichloroethane	<0.349	200	40
1,1,2-Trichloroethane	<0.264	5	0.5
Trichloroethene	<0.439	5	0.5
Vinyl acetate	<1.01	-	-
Vinyl chloride	<0.316	0.2	0.02
m,p-Xylene	<0.310	-	-
o-Xylene	<0.349	-	-
Xylenes, Total	<0.660	2000	400

Notes: All results expressed as µg/L (parts per billion)
ES NR140 Enforcement Standard (Exceedances in **bold**)
PAL NR140 Preventive Action Limit (Exceedances in underline)
- ES/PAL not established for this compound
J Analyte detected between the Limit of Detection and Limit of Quantitation
S The quality control sample recovery is outside of the laboratory control limits.
* Not considered an exceedance per NR 140.14(3)

Table 4
VOC Analytical Results - Sub-Slab Vapor
One Hour Martinizing - Milwaukee / Wisconsin Auto Title Loans
233/235 W. Layton Avenue
Milwaukee, Wisconsin 53207

Sample Identification	VP-1	VP-2	Residential	Small Commercial	Large Commercial
Sample Type	SS	SS	Sub-Slab VRSL	Sub-Slab VRSL	Sub-Slab VRSL
Sample Date	5/1/2019	5/1/2019			
Sample Duration (Hours)	0.5	0.5			
Volatile Organic Compounds (VOC) (Method: TO-15)					
Carbon tetrachloride	<0.79	<0.79	160	670	2000
Chloroethane	<0.48	<0.48	333333	1466667	1000000
Chloroform	6.8	<0.36	3100	13000	39000
Chloromethane	<0.29	<0.29	3100	13000	39000
1,2-Dichlorobenzene	<0.91	<0.91	7000	29333	88000
1,4-Dichlorobenzene	<1.8	<1.8	87	367	1100
Dichlorodifluoromethane	2.3	2.3	3300	15000	44000
1,1-Dichloroethane	<0.41	<0.41	600	2600	7700
1,2-Dichloroethane	<0.27	<0.27	37	160	470
1,1-Dichloroethene	<0.50	<0.50	7000	29000	88000
cis-1,2-Dichloroethene	<0.40	<0.40	-	-	-
trans-1,2-Dichloroethene	<0.52	<0.52	-	-	-
Hexachloro-1,3-butadiene	<3.6	<3.6	43	187	560
Methylene Chloride	19.4	6.3J	21000	87000	260000
1,1,2,2-Tetrachloroethane	<0.53	<0.53	16	70	210
Tetrachloroethene	18500	<u>1510</u>	1400	6000	18000
1,2,4-Trichlorobenzene	<6.8	<6.8	70	293	880
1,1,1-Trichloroethane	4.1	11.9	170000	730000	2200000
1,1,2 -Trichloroethane	<0.46	<0.46	7	29	88
Trichloroethene	18.2	2.7	70	290	880
Trichlorofluoromethane	<0.67	<0.67	-	-	-
Vinyl chloride	<0.23	<0.23	57	930	2800

- Notes: All results expressed as µg/m³
- VRSL Vapor Risk Screening Level (November 2017 Version)
- Residential Sub-slab VRSL exceedances in underline (AF=0.03)
- Small Commercial Sub-slab VRSL exceedances in bold (AF=0.03)
- Large Commercial Sub-slab VRSL exceedances in bold and shaded (AF=0.01)
- Sub-slab VRSL not established for this compound
- J Analyte detected between the Limit of Detection and Limit of Quantitation

Analytical Report

Timothy J. Anderson
United Engineering Consultants, Inc.
16237 W. Ryerson Road
New Berlin, WI 53151

May 13, 2019

Work Order: 19E0242

RE: UEC Analysis
19006

Dear Timothy J. Anderson:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,



Jacoby Jackson
Project Manager
847.967.6666
jjackson@emt.com

Approved for release: 5/13/2019 8:24:41AM

Approved by,



Matthew Gregory
Technical Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Wisconsin Dept of Natural Resources, Cert No. 999888890

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Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GP-1 2'-3'	19E0242-01	Soil	05/01/19 12:30	05/03/19 16:45
GP-1 5'-6'	19E0242-02	Soil	05/01/19 12:45	05/03/19 16:45
GP-1 13'-14'	19E0242-03	Soil	05/01/19 13:00	05/03/19 16:45
GP-2 3'-4'	19E0242-04	Soil	05/01/19 13:30	05/03/19 16:45
GP-2 7'-8'	19E0242-05	Soil	05/01/19 13:45	05/03/19 16:45
GP-2 15'-16'	19E0242-06	Soil	05/01/19 14:00	05/03/19 16:45
GP-3 3'-4'	19E0242-07	Soil	05/01/19 14:30	05/03/19 16:45
GP-3 6'-7'	19E0242-08	Soil	05/01/19 14:45	05/03/19 16:45
GP-3 13'-14'	19E0242-09	Soil	05/01/19 15:00	05/03/19 16:45
TW1	19E0242-10	Water	05/01/19 13:15	05/03/19 16:45
TW2	19E0242-11	Water	05/01/19 14:15	05/03/19 16:45
TW3	19E0242-12	Water	05/01/19 15:15	05/03/19 16:45

Case Narrative

Client: United Engineering Consultants, Inc.

Date: 05/13/2019

Project: UEC Analysis
19006

Work Order: 19E0242

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 19E0242

The samples were received on 05/03/19 16:45. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	1.6

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Client Sample Results

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: GP-1 2'-3'
Report Date: 05/13/2019
Collection Date: 05/01/2019 12:30
Matrix: Soil
Lab ID: 19E0242-01

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	77.3	0.100		% (Percent)	0.00500	05/07/19 15:52	B9E0235	TB2	1	
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 28.9	28.9		ug/Kg dry	28.9	05/07/19 06:13	B9E0360	JL	50	
1,1,2,2-Tetrachloroethane	< 28.0	28.0		ug/Kg dry	28.0	05/07/19 06:13	B9E0360	JL	50	
1,1,2-Trichloroethane	< 28.7	28.7		ug/Kg dry	28.7	05/07/19 06:13	B9E0360	JL	50	
1,1-Dichloroethane	< 43.5	43.5		ug/Kg dry	43.5	05/07/19 06:13	B9E0360	JL	50	
1,1-Dichloroethene	< 34.0	34.0		ug/Kg dry	34.0	05/07/19 06:13	B9E0360	JL	50	
1,2,4-Trimethylbenzene	< 25.0	25.0		ug/Kg dry	16.8	05/07/19 06:13	B9E0360	JL	50	
1,2-Dibromo-3-chloropropane	< 47.6	47.6		ug/Kg dry	47.6	05/07/19 06:13	B9E0360	JL	50	
1,2-Dibromoethane	< 25.0	25.0		ug/Kg dry	14.6	05/07/19 06:13	B9E0360	JL	50	
1,2-Dichloroethane	< 25.0	25.0		ug/Kg dry	10.5	05/07/19 06:13	B9E0360	JL	50	
1,2-Dichloropropane	< 25.0	25.0		ug/Kg dry	19.5	05/07/19 06:13	B9E0360	JL	50	
1,3,5-Trimethylbenzene	< 25.0	25.0		ug/Kg dry	16.4	05/07/19 06:13	B9E0360	JL	50	
1-Butanol	< 498	498		ug/Kg dry	498	05/07/19 06:13	B9E0360	JL	50	
2-Butanone	< 124	124		ug/Kg dry	124	05/07/19 06:13	B9E0360	JL	50	
2-Hexanone	< 85.5	85.5		ug/Kg dry	85.5	05/07/19 06:13	B9E0360	JL	50	
4-Methyl-2-pentanone	< 57.6	57.6		ug/Kg dry	57.6	05/07/19 06:13	B9E0360	JL	50	
Acetone	< 212	212		ug/Kg dry	212	05/07/19 06:13	B9E0360	JL	50	
Acrylonitrile	< 61.1	61.1		ug/Kg dry	61.1	05/07/19 06:13	B9E0360	JL	50	
Benzene	< 25.0	25.0		ug/Kg dry	12.5	05/07/19 06:13	B9E0360	JL	50	
Bromodichloromethane	< 25.0	25.0		ug/Kg dry	18.7	05/07/19 06:13	B9E0360	JL	50	
Bromoform	< 25.0	25.0		ug/Kg dry	20.3	05/07/19 06:13	B9E0360	JL	50	
Carbon disulfide	< 25.0	25.0		ug/Kg dry	15.2	05/07/19 06:13	B9E0360	JL	50	
Carbon tetrachloride	< 25.0	25.0		ug/Kg dry	13.1	05/07/19 06:13	B9E0360	JL	50	
Chlorobenzene	< 25.0	25.0		ug/Kg dry	14.5	05/07/19 06:13	B9E0360	JL	50	
Chloroform	< 27.0	27.0		ug/Kg dry	27.0	05/07/19 06:13	B9E0360	JL	50	
cis-1,2-Dichloroethene	< 29.8	29.8		ug/Kg dry	29.8	05/07/19 06:13	B9E0360	JL	50	
Dibromochloromethane	< 25.0	25.0		ug/Kg dry	23.6	05/07/19 06:13	B9E0360	JL	50	
Ethylbenzene	< 25.0	25.0		ug/Kg dry	18.6	05/07/19 06:13	B9E0360	JL	50	
m,p-Xylene	< 92.4	92.4		ug/Kg dry	92.4	05/07/19 06:13	B9E0360	JL	50	
Methyl tert-butyl ether	< 25.0	25.0		ug/Kg dry	21.7	05/07/19 06:13	B9E0360	JL	50	
Methylene chloride	< 50.9	50.9		ug/Kg dry	50.9	05/07/19 06:13	B9E0360	JL	50	
o-Xylene	< 25.0	25.0		ug/Kg dry	12.9	05/07/19 06:13	B9E0360	JL	50	
Styrene	< 25.0	25.0		ug/Kg dry	18.6	05/07/19 06:13	B9E0360	JL	50	
Tetrachloroethene	347	25.0		ug/Kg dry	22.5	05/07/19 06:13	B9E0360	JL	50	
Toluene	< 25.0	25.0		ug/Kg dry	16.9	05/07/19 06:13	B9E0360	JL	50	
trans-1,2-Dichloroethene	< 41.0	41.0		ug/Kg dry	41.0	05/07/19 06:13	B9E0360	JL	50	
Trichloroethene	< 25.0	25.0		ug/Kg dry	15.0	05/07/19 06:13	B9E0360	JL	50	
Vinyl acetate	< 33.3	33.3		ug/Kg dry	33.3	05/07/19 06:13	B9E0360	JL	50	
Vinyl chloride	< 25.0	25.0		ug/Kg dry	20.5	05/07/19 06:13	B9E0360	JL	50	
Xylenes, Total	< 105	105		ug/Kg dry	105	05/07/19 06:13	B9E0360	JL	50	
1,2-Dichloroethene, Total	< 70.8	70.8		ug/Kg dry	70.8	05/07/19 06:13	B9E0360	JL	50	
Surrogate: Dibromofluoromethane Recovery: 103% Limits: 78-137 05/07/19 06:13 B9E0360 JL 50										

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Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: GP-1 2'-3'
Report Date: 05/13/2019
Collection Date: 05/01/2019 12:30
Matrix: Soil
Lab ID: 19E0242-01 (Continued)

Analyses	Result	EMT Reporting		MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual Units					
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)								
Surrogate: 1,2-Dichloroethane-d4			Recovery: 112%	Limits: 86-137	05/07/19 06:13	B9E0360	JL	50
Surrogate: Fluorobenzene			Recovery: 99%	Limits: 80-120	05/07/19 06:13	B9E0360	JL	50
Surrogate: Toluene-d8			Recovery: 94%	Limits: 73-112	05/07/19 06:13	B9E0360	JL	50
Surrogate: 4-Bromofluorobenzene			Recovery: 95%	Limits: 85-120	05/07/19 06:13	B9E0360	JL	50
Surrogate: 1,2-Dichlorobenzene-d4			Recovery: 110%	Limits: 85-128	05/07/19 06:13	B9E0360	JL	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: GP-1 5'-6'
Report Date: 05/13/2019
Collection Date: 05/01/2019 12:45
Matrix: Soil
Lab ID: 19E0242-02

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	83.2	0.100		% (Percent)	0.00500	05/07/19 15:54	B9E0235	TB2	1	
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 25.0	25.0		ug/Kg dry	23.4	05/07/19 06:47	B9E0360	JL	50	
1,1,2,2-Tetrachloroethane	< 25.0	25.0		ug/Kg dry	22.7	05/07/19 06:47	B9E0360	JL	50	
1,1,2-Trichloroethane	< 25.0	25.0		ug/Kg dry	23.3	05/07/19 06:47	B9E0360	JL	50	
1,1-Dichloroethane	< 35.2	35.2		ug/Kg dry	35.2	05/07/19 06:47	B9E0360	JL	50	
1,1-Dichloroethene	< 27.6	27.6		ug/Kg dry	27.6	05/07/19 06:47	B9E0360	JL	50	
1,2,4-Trimethylbenzene	< 25.0	25.0		ug/Kg dry	13.6	05/07/19 06:47	B9E0360	JL	50	
1,2-Dibromo-3-chloropropane	< 38.6	38.6		ug/Kg dry	38.6	05/07/19 06:47	B9E0360	JL	50	
1,2-Dibromoethane	< 25.0	25.0		ug/Kg dry	11.8	05/07/19 06:47	B9E0360	JL	50	
1,2-Dichloroethane	< 25.0	25.0		ug/Kg dry	8.55	05/07/19 06:47	B9E0360	JL	50	
1,2-Dichloropropane	< 25.0	25.0		ug/Kg dry	15.8	05/07/19 06:47	B9E0360	JL	50	
1,3,5-Trimethylbenzene	< 25.0	25.0		ug/Kg dry	13.3	05/07/19 06:47	B9E0360	JL	50	
1-Butanol	< 404	404		ug/Kg dry	404	05/07/19 06:47	B9E0360	JL	50	
2-Butanone	< 100	100		ug/Kg dry	100	05/07/19 06:47	B9E0360	JL	50	
2-Hexanone	< 69.3	69.3		ug/Kg dry	69.3	05/07/19 06:47	B9E0360	JL	50	
4-Methyl-2-pentanone	< 46.6	46.6		ug/Kg dry	46.6	05/07/19 06:47	B9E0360	JL	50	
Acetone	< 172	172		ug/Kg dry	172	05/07/19 06:47	B9E0360	JL	50	
Acrylonitrile	< 49.5	49.5		ug/Kg dry	49.5	05/07/19 06:47	B9E0360	JL	50	
Benzene	< 25.0	25.0		ug/Kg dry	10.1	05/07/19 06:47	B9E0360	JL	50	
Bromodichloromethane	< 25.0	25.0		ug/Kg dry	15.1	05/07/19 06:47	B9E0360	JL	50	
Bromoform	< 25.0	25.0		ug/Kg dry	16.5	05/07/19 06:47	B9E0360	JL	50	
Carbon disulfide	< 25.0	25.0		ug/Kg dry	12.3	05/07/19 06:47	B9E0360	JL	50	
Carbon tetrachloride	< 25.0	25.0		ug/Kg dry	10.7	05/07/19 06:47	B9E0360	JL	50	
Chlorobenzene	< 25.0	25.0		ug/Kg dry	11.7	05/07/19 06:47	B9E0360	JL	50	
Chloroform	< 25.0	25.0		ug/Kg dry	21.9	05/07/19 06:47	B9E0360	JL	50	
cis-1,2-Dichloroethene	< 25.0	25.0		ug/Kg dry	24.2	05/07/19 06:47	B9E0360	JL	50	
Dibromochloromethane	< 25.0	25.0		ug/Kg dry	19.2	05/07/19 06:47	B9E0360	JL	50	
Ethylbenzene	< 25.0	25.0		ug/Kg dry	15.1	05/07/19 06:47	B9E0360	JL	50	
m,p-Xylene	< 74.9	74.9		ug/Kg dry	74.9	05/07/19 06:47	B9E0360	JL	50	
Methyl tert-butyl ether	< 25.0	25.0		ug/Kg dry	17.6	05/07/19 06:47	B9E0360	JL	50	
Methylene chloride	< 41.2	41.2		ug/Kg dry	41.2	05/07/19 06:47	B9E0360	JL	50	
o-Xylene	< 25.0	25.0		ug/Kg dry	10.4	05/07/19 06:47	B9E0360	JL	50	
Styrene	< 25.0	25.0		ug/Kg dry	15.0	05/07/19 06:47	B9E0360	JL	50	
Tetrachloroethene	1230	25.0		ug/Kg dry	18.3	05/07/19 06:47	B9E0360	JL	50	
Toluene	< 25.0	25.0		ug/Kg dry	13.7	05/07/19 06:47	B9E0360	JL	50	
trans-1,2-Dichloroethene	< 33.2	33.2		ug/Kg dry	33.2	05/07/19 06:47	B9E0360	JL	50	
Trichloroethene	< 25.0	25.0		ug/Kg dry	12.2	05/07/19 06:47	B9E0360	JL	50	
Vinyl acetate	< 27.0	27.0		ug/Kg dry	27.0	05/07/19 06:47	B9E0360	JL	50	
Vinyl chloride	< 25.0	25.0		ug/Kg dry	16.7	05/07/19 06:47	B9E0360	JL	50	
Xylenes, Total	< 85.3	85.3		ug/Kg dry	85.3	05/07/19 06:47	B9E0360	JL	50	
1,2-Dichloroethene, Total	< 57.4	57.4		ug/Kg dry	57.4	05/07/19 06:47	B9E0360	JL	50	
<i>Surrogate: Dibromofluoromethane</i>					<i>Recovery: 109%</i>	<i>Limits: 78-137</i>	<i>05/07/19 06:47</i>	<i>B9E0360</i>	<i>JL</i>	<i>50</i>

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Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: GP-1 5'-6'
Report Date: 05/13/2019
Collection Date: 05/01/2019 12:45
Matrix: Soil
Lab ID: 19E0242-02 (Continued)

Analyses	Result	EMT Reporting		MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual Units					
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)								
Surrogate: 1,2-Dichloroethane-d4				Recovery: 118%	Limits: 86-137	05/07/19 06:47	B9E0360	JL 50
Surrogate: Fluorobenzene				Recovery: 100%	Limits: 80-120	05/07/19 06:47	B9E0360	JL 50
Surrogate: Toluene-d8				Recovery: 91%	Limits: 73-112	05/07/19 06:47	B9E0360	JL 50
Surrogate: 4-Bromofluorobenzene				Recovery: 99%	Limits: 85-120	05/07/19 06:47	B9E0360	JL 50
Surrogate: 1,2-Dichlorobenzene-d4				Recovery: 111%	Limits: 85-128	05/07/19 06:47	B9E0360	JL 50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: GP-1 13'-14'
Report Date: 05/13/2019
Collection Date: 05/01/2019 13:00
Matrix: Soil
Lab ID: 19E0242-03

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Reporting Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	95.4	0.100		% (Percent)	0.00500	05/07/19 15:56	B9E0235	TB2	1	
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 27.9	27.9		ug/Kg dry	27.9	05/07/19 07:21	B9E0360	JL	50	
1,1,2,2-Tetrachloroethane	< 26.9	26.9		ug/Kg dry	26.9	05/07/19 07:21	B9E0360	JL	50	
1,1,2-Trichloroethane	< 27.7	27.7		ug/Kg dry	27.7	05/07/19 07:21	B9E0360	JL	50	
1,1-Dichloroethane	< 41.9	41.9		ug/Kg dry	41.9	05/07/19 07:21	B9E0360	JL	50	
1,1-Dichloroethene	< 32.8	32.8		ug/Kg dry	32.8	05/07/19 07:21	B9E0360	JL	50	
1,2,4-Trimethylbenzene	< 25.0	25.0		ug/Kg dry	16.2	05/07/19 07:21	B9E0360	JL	50	
1,2-Dibromo-3-chloropropane	< 45.9	45.9		ug/Kg dry	45.9	05/07/19 07:21	B9E0360	JL	50	
1,2-Dibromoethane	< 25.0	25.0		ug/Kg dry	14.0	05/07/19 07:21	B9E0360	JL	50	
1,2-Dichloroethane	< 25.0	25.0		ug/Kg dry	10.2	05/07/19 07:21	B9E0360	JL	50	
1,2-Dichloropropane	< 25.0	25.0		ug/Kg dry	18.8	05/07/19 07:21	B9E0360	JL	50	
1,3,5-Trimethylbenzene	< 25.0	25.0		ug/Kg dry	15.8	05/07/19 07:21	B9E0360	JL	50	
1-Butanol	< 480	480		ug/Kg dry	480	05/07/19 07:21	B9E0360	JL	50	
2-Butanone	< 119	119		ug/Kg dry	119	05/07/19 07:21	B9E0360	JL	50	
2-Hexanone	< 82.3	82.3		ug/Kg dry	82.3	05/07/19 07:21	B9E0360	JL	50	
4-Methyl-2-pentanone	< 55.5	55.5		ug/Kg dry	55.5	05/07/19 07:21	B9E0360	JL	50	
Acetone	< 205	205		ug/Kg dry	205	05/07/19 07:21	B9E0360	JL	50	
Acrylonitrile	< 58.8	58.8		ug/Kg dry	58.8	05/07/19 07:21	B9E0360	JL	50	
Benzene	< 25.0	25.0		ug/Kg dry	12.1	05/07/19 07:21	B9E0360	JL	50	
Bromodichloromethane	< 25.0	25.0		ug/Kg dry	18.0	05/07/19 07:21	B9E0360	JL	50	
Bromoform	< 25.0	25.0		ug/Kg dry	19.6	05/07/19 07:21	B9E0360	JL	50	
Carbon disulfide	< 25.0	25.0		ug/Kg dry	14.6	05/07/19 07:21	B9E0360	JL	50	
Carbon tetrachloride	< 25.0	25.0		ug/Kg dry	12.7	05/07/19 07:21	B9E0360	JL	50	
Chlorobenzene	< 25.0	25.0		ug/Kg dry	13.9	05/07/19 07:21	B9E0360	JL	50	
Chloroform	< 26.0	26.0		ug/Kg dry	26.0	05/07/19 07:21	B9E0360	JL	50	
cis-1,2-Dichloroethene	< 28.7	28.7		ug/Kg dry	28.7	05/07/19 07:21	B9E0360	JL	50	
Dibromochloromethane	< 25.0	25.0		ug/Kg dry	22.8	05/07/19 07:21	B9E0360	JL	50	
Ethylbenzene	< 25.0	25.0		ug/Kg dry	17.9	05/07/19 07:21	B9E0360	JL	50	
m,p-Xylene	< 89.1	89.1		ug/Kg dry	89.1	05/07/19 07:21	B9E0360	JL	50	
Methyl tert-butyl ether	< 25.0	25.0		ug/Kg dry	20.9	05/07/19 07:21	B9E0360	JL	50	
Methylene chloride	< 49.0	49.0		ug/Kg dry	49.0	05/07/19 07:21	B9E0360	JL	50	
o-Xylene	< 25.0	25.0		ug/Kg dry	12.4	05/07/19 07:21	B9E0360	JL	50	
Styrene	< 25.0	25.0		ug/Kg dry	17.9	05/07/19 07:21	B9E0360	JL	50	
Tetrachloroethene	1530	25.0		ug/Kg dry	21.7	05/07/19 07:21	B9E0360	JL	50	
Toluene	< 25.0	25.0		ug/Kg dry	16.3	05/07/19 07:21	B9E0360	JL	50	
trans-1,2-Dichloroethene	< 39.5	39.5		ug/Kg dry	39.5	05/07/19 07:21	B9E0360	JL	50	
Trichloroethene	< 25.0	25.0		ug/Kg dry	14.5	05/07/19 07:21	B9E0360	JL	50	
Vinyl acetate	< 32.1	32.1		ug/Kg dry	32.1	05/07/19 07:21	B9E0360	JL	50	
Vinyl chloride	< 25.0	25.0		ug/Kg dry	19.8	05/07/19 07:21	B9E0360	JL	50	
Xylenes, Total	< 101	101		ug/Kg dry	101	05/07/19 07:21	B9E0360	JL	50	
1,2-Dichloroethene, Total	< 68.2	68.2		ug/Kg dry	68.2	05/07/19 07:21	B9E0360	JL	50	

<i>Surrogate: Dibromofluoromethane</i>				Recovery: 112%		Limits: 78-137	05/07/19 07:21	B9E0360	JL	50

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Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: GP-1 13'-14'
Report Date: 05/13/2019
Collection Date: 05/01/2019 13:00
Matrix: Soil
Lab ID: 19E0242-03 (Continued)

Analyses	Result	EMT Reporting		MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual Units					
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)								
Surrogate: 1,2-Dichloroethane-d4				Recovery: 118% Limits: 86-137	05/07/19 07:21	B9E0360	JL	50
Surrogate: Fluorobenzene				Recovery: 99% Limits: 80-120	05/07/19 07:21	B9E0360	JL	50
Surrogate: Toluene-d8				Recovery: 90% Limits: 73-112	05/07/19 07:21	B9E0360	JL	50
Surrogate: 4-Bromofluorobenzene				Recovery: 102% Limits: 85-120	05/07/19 07:21	B9E0360	JL	50
Surrogate: 1,2-Dichlorobenzene-d4				Recovery: 113% Limits: 85-128	05/07/19 07:21	B9E0360	JL	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: GP-2 3'-4'
Report Date: 05/13/2019
Collection Date: 05/01/2019 13:30
Matrix: Soil
Lab ID: 19E0242-04

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Reporting	Limit							Qual
Wet Chemistry										
Method: SM2540G										
Total Solids	83.6	0.100		% (Percent)	0.00500	05/07/19 15:58	B9E0235	TB2	1	
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 26.5	26.5		ug/Kg dry	26.5	05/07/19 07:54	B9E0360	JL	50	
1,1,2,2-Tetrachloroethane	< 25.6	25.6		ug/Kg dry	25.6	05/07/19 07:54	B9E0360	JL	50	
1,1,2-Trichloroethane	< 26.3	26.3		ug/Kg dry	26.3	05/07/19 07:54	B9E0360	JL	50	
1,1-Dichloroethane	< 39.8	39.8		ug/Kg dry	39.8	05/07/19 07:54	B9E0360	JL	50	
1,1-Dichloroethene	< 31.1	31.1		ug/Kg dry	31.1	05/07/19 07:54	B9E0360	JL	50	
1,2,4-Trimethylbenzene	< 25.0	25.0		ug/Kg dry	15.4	05/07/19 07:54	B9E0360	JL	50	
1,2-Dibromo-3-chloropropane	< 43.6	43.6		ug/Kg dry	43.6	05/07/19 07:54	B9E0360	JL	50	
1,2-Dibromoethane	< 25.0	25.0		ug/Kg dry	13.3	05/07/19 07:54	B9E0360	JL	50	
1,2-Dichloroethane	< 25.0	25.0		ug/Kg dry	9.65	05/07/19 07:54	B9E0360	JL	50	
1,2-Dichloropropane	< 25.0	25.0		ug/Kg dry	17.9	05/07/19 07:54	B9E0360	JL	50	
1,3,5-Trimethylbenzene	< 25.0	25.0		ug/Kg dry	15.1	05/07/19 07:54	B9E0360	JL	50	
1-Butanol	< 456	456		ug/Kg dry	456	05/07/19 07:54	B9E0360	JL	50	
2-Butanone	< 113	113		ug/Kg dry	113	05/07/19 07:54	B9E0360	JL	50	
2-Hexanone	< 78.2	78.2		ug/Kg dry	78.2	05/07/19 07:54	B9E0360	JL	50	
4-Methyl-2-pentanone	< 52.7	52.7		ug/Kg dry	52.7	05/07/19 07:54	B9E0360	JL	50	
Acetone	< 194	194		ug/Kg dry	194	05/07/19 07:54	B9E0360	JL	50	
Acrylonitrile	< 55.9	55.9		ug/Kg dry	55.9	05/07/19 07:54	B9E0360	JL	50	
Benzene	< 25.0	25.0		ug/Kg dry	11.5	05/07/19 07:54	B9E0360	JL	50	
Bromodichloromethane	< 25.0	25.0		ug/Kg dry	17.1	05/07/19 07:54	B9E0360	JL	50	
Bromoform	< 25.0	25.0		ug/Kg dry	18.6	05/07/19 07:54	B9E0360	JL	50	
Carbon disulfide	< 25.0	25.0		ug/Kg dry	13.9	05/07/19 07:54	B9E0360	JL	50	
Carbon tetrachloride	< 25.0	25.0		ug/Kg dry	12.0	05/07/19 07:54	B9E0360	JL	50	
Chlorobenzene	< 25.0	25.0		ug/Kg dry	13.2	05/07/19 07:54	B9E0360	JL	50	
Chloroform	< 25.0	25.0		ug/Kg dry	24.7	05/07/19 07:54	B9E0360	JL	50	
cis-1,2-Dichloroethene	< 27.3	27.3		ug/Kg dry	27.3	05/07/19 07:54	B9E0360	JL	50	
Dibromochloromethane	< 25.0	25.0		ug/Kg dry	21.6	05/07/19 07:54	B9E0360	JL	50	
Ethylbenzene	< 25.0	25.0		ug/Kg dry	17.0	05/07/19 07:54	B9E0360	JL	50	
m,p-Xylene	< 84.6	84.6		ug/Kg dry	84.6	05/07/19 07:54	B9E0360	JL	50	
Methyl tert-butyl ether	< 25.0	25.0		ug/Kg dry	19.9	05/07/19 07:54	B9E0360	JL	50	
Methylene chloride	< 46.6	46.6		ug/Kg dry	46.6	05/07/19 07:54	B9E0360	JL	50	
o-Xylene	< 25.0	25.0		ug/Kg dry	11.8	05/07/19 07:54	B9E0360	JL	50	
Styrene	< 25.0	25.0		ug/Kg dry	17.0	05/07/19 07:54	B9E0360	JL	50	
Tetrachloroethene	< 25.0	25.0		ug/Kg dry	20.6	05/07/19 07:54	B9E0360	JL	50	
Toluene	< 25.0	25.0		ug/Kg dry	15.5	05/07/19 07:54	B9E0360	JL	50	
trans-1,2-Dichloroethene	< 37.5	37.5		ug/Kg dry	37.5	05/07/19 07:54	B9E0360	JL	50	
Trichloroethene	< 25.0	25.0		ug/Kg dry	13.7	05/07/19 07:54	B9E0360	JL	50	
Vinyl acetate	< 30.5	30.5		ug/Kg dry	30.5	05/07/19 07:54	B9E0360	JL	50	
Vinyl chloride	< 25.0	25.0		ug/Kg dry	18.8	05/07/19 07:54	B9E0360	JL	50	
Xylenes, Total	< 96.4	96.4		ug/Kg dry	96.4	05/07/19 07:54	B9E0360	JL	50	
1,2-Dichloroethene, Total	< 64.8	64.8		ug/Kg dry	64.8	05/07/19 07:54	B9E0360	JL	50	
Surrogate: Dibromofluoromethane Recovery: 108% Limits: 78-137 05/07/19 07:54 B9E0360 JL 50										

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Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: GP-2 3'-4'
Report Date: 05/13/2019
Collection Date: 05/01/2019 13:30
Matrix: Soil
Lab ID: 19E0242-04 (Continued)

Analyses	Result	EMT Reporting		MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual Units						
Volatile Organic Compounds by GC/MS (Continued)									
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)									
Surrogate: 1,2-Dichloroethane-d4				Recovery: 117%	Limits: 86-137	05/07/19 07:54	B9E0360	JL	50
Surrogate: Fluorobenzene				Recovery: 100%	Limits: 80-120	05/07/19 07:54	B9E0360	JL	50
Surrogate: Toluene-d8				Recovery: 90%	Limits: 73-112	05/07/19 07:54	B9E0360	JL	50
Surrogate: 4-Bromofluorobenzene				Recovery: 103%	Limits: 85-120	05/07/19 07:54	B9E0360	JL	50
Surrogate: 1,2-Dichlorobenzene-d4				Recovery: 113%	Limits: 85-128	05/07/19 07:54	B9E0360	JL	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: GP-2 7'-8'
Report Date: 05/13/2019
Collection Date: 05/01/2019 13:45
Matrix: Soil
Lab ID: 19E0242-05

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Reporting Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	85.1	0.100		% (Percent)	0.00500	05/07/19 16:00	B9E0235	TB2	1	
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 25.0	25.0		ug/Kg dry	22.0	05/07/19 08:28	B9E0360	JL	50	
1,1,2,2-Tetrachloroethane	< 25.0	25.0		ug/Kg dry	21.3	05/07/19 08:28	B9E0360	JL	50	
1,1,2-Trichloroethane	< 25.0	25.0		ug/Kg dry	21.8	05/07/19 08:28	B9E0360	JL	50	
1,1-Dichloroethane	< 33.1	33.1		ug/Kg dry	33.1	05/07/19 08:28	B9E0360	JL	50	
1,1-Dichloroethene	< 25.9	25.9		ug/Kg dry	25.9	05/07/19 08:28	B9E0360	JL	50	
1,2,4-Trimethylbenzene	< 25.0	25.0		ug/Kg dry	12.8	05/07/19 08:28	B9E0360	JL	50	
1,2-Dibromo-3-chloropropane	< 36.2	36.2		ug/Kg dry	36.2	05/07/19 08:28	B9E0360	JL	50	
1,2-Dibromoethane	< 25.0	25.0		ug/Kg dry	11.1	05/07/19 08:28	B9E0360	JL	50	
1,2-Dichloroethane	< 25.0	25.0		ug/Kg dry	8.02	05/07/19 08:28	B9E0360	JL	50	
1,2-Dichloropropane	< 25.0	25.0		ug/Kg dry	14.8	05/07/19 08:28	B9E0360	JL	50	
1,3,5-Trimethylbenzene	< 25.0	25.0		ug/Kg dry	12.5	05/07/19 08:28	B9E0360	JL	50	
1-Butanol	< 379	379		ug/Kg dry	379	05/07/19 08:28	B9E0360	JL	50	
2-Butanone	< 94.1	94.1		ug/Kg dry	94.1	05/07/19 08:28	B9E0360	JL	50	
2-Hexanone	< 65.0	65.0		ug/Kg dry	65.0	05/07/19 08:28	B9E0360	JL	50	
4-Methyl-2-pentanone	< 43.8	43.8		ug/Kg dry	43.8	05/07/19 08:28	B9E0360	JL	50	
Acetone	< 161	161		ug/Kg dry	161	05/07/19 08:28	B9E0360	JL	50	
Acrylonitrile	< 46.4	46.4		ug/Kg dry	46.4	05/07/19 08:28	B9E0360	JL	50	
Benzene	< 25.0	25.0		ug/Kg dry	9.51	05/07/19 08:28	B9E0360	JL	50	
Bromodichloromethane	< 25.0	25.0		ug/Kg dry	14.2	05/07/19 08:28	B9E0360	JL	50	
Bromoform	< 25.0	25.0		ug/Kg dry	15.5	05/07/19 08:28	B9E0360	JL	50	
Carbon disulfide	< 25.0	25.0		ug/Kg dry	11.6	05/07/19 08:28	B9E0360	JL	50	
Carbon tetrachloride	< 25.0	25.0		ug/Kg dry	9.99	05/07/19 08:28	B9E0360	JL	50	
Chlorobenzene	< 25.0	25.0		ug/Kg dry	11.0	05/07/19 08:28	B9E0360	JL	50	
Chloroform	< 25.0	25.0		ug/Kg dry	20.5	05/07/19 08:28	B9E0360	JL	50	
cis-1,2-Dichloroethene	< 25.0	25.0		ug/Kg dry	22.7	05/07/19 08:28	B9E0360	JL	50	
Dibromochloromethane	< 25.0	25.0		ug/Kg dry	18.0	05/07/19 08:28	B9E0360	JL	50	
Ethylbenzene	< 25.0	25.0		ug/Kg dry	14.1	05/07/19 08:28	B9E0360	JL	50	
m,p-Xylene	< 70.3	70.3		ug/Kg dry	70.3	05/07/19 08:28	B9E0360	JL	50	
Methyl tert-butyl ether	< 25.0	25.0		ug/Kg dry	16.5	05/07/19 08:28	B9E0360	JL	50	
Methylene chloride	< 38.7	38.7		ug/Kg dry	38.7	05/07/19 08:28	B9E0360	JL	50	
o-Xylene	< 25.0	25.0		ug/Kg dry	9.77	05/07/19 08:28	B9E0360	JL	50	
Styrene	< 25.0	25.0		ug/Kg dry	14.1	05/07/19 08:28	B9E0360	JL	50	
Tetrachloroethene	253	25.0		ug/Kg dry	17.1	05/07/19 08:28	B9E0360	JL	50	
Toluene	< 25.0	25.0		ug/Kg dry	12.8	05/07/19 08:28	B9E0360	JL	50	
trans-1,2-Dichloroethene	< 31.2	31.2		ug/Kg dry	31.2	05/07/19 08:28	B9E0360	JL	50	
Trichloroethene	< 25.0	25.0		ug/Kg dry	11.4	05/07/19 08:28	B9E0360	JL	50	
Vinyl acetate	< 25.3	25.3		ug/Kg dry	25.3	05/07/19 08:28	B9E0360	JL	50	
Vinyl chloride	< 25.0	25.0		ug/Kg dry	15.6	05/07/19 08:28	B9E0360	JL	50	
Xylenes, Total	< 80.1	80.1		ug/Kg dry	80.1	05/07/19 08:28	B9E0360	JL	50	
1,2-Dichloroethene, Total	< 53.9	53.9		ug/Kg dry	53.9	05/07/19 08:28	B9E0360	JL	50	

Surrogate: Dibromofluoromethane					Recovery: 107%	Limits: 78-137	05/07/19 08:28	B9E0360	JL	50

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Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: GP-2 7'-8'
Report Date: 05/13/2019
Collection Date: 05/01/2019 13:45
Matrix: Soil
Lab ID: 19E0242-05 (Continued)

Analyses	Result	EMT Reporting		MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual Units					
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)								
Surrogate: 1,2-Dichloroethane-d4				Recovery: 117%	Limits: 86-137	05/07/19 08:28	B9E0360	JL 50
Surrogate: Fluorobenzene				Recovery: 99%	Limits: 80-120	05/07/19 08:28	B9E0360	JL 50
Surrogate: Toluene-d8				Recovery: 92%	Limits: 73-112	05/07/19 08:28	B9E0360	JL 50
Surrogate: 4-Bromofluorobenzene				Recovery: 92%	Limits: 85-120	05/07/19 08:28	B9E0360	JL 50
Surrogate: 1,2-Dichlorobenzene-d4				Recovery: 114%	Limits: 85-128	05/07/19 08:28	B9E0360	JL 50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: GP-2 15'-16'
Report Date: 05/13/2019
Collection Date: 05/01/2019 14:00
Matrix: Soil
Lab ID: 19E0242-06

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF			
		Reporting Limit	Qual									
Wet Chemistry												
Method: SM2540G												
Total Solids	95.8	0.100		% (Percent)	0.00500	05/07/19 16:02	B9E0235	TB2	1			
Volatile Organic Compounds by GC/MS												
Method: SW-846 8260B/WDNR: PUBL-FW-140												
1,1,1-Trichloroethane	< 27.0	27.0		ug/Kg dry	27.0	05/07/19 09:02	B9E0360	JL	50			
1,1,2,2-Tetrachloroethane	< 26.1	26.1		ug/Kg dry	26.1	05/07/19 09:02	B9E0360	JL	50			
1,1,2-Trichloroethane	< 26.8	26.8		ug/Kg dry	26.8	05/07/19 09:02	B9E0360	JL	50			
1,1-Dichloroethane	< 40.6	40.6		ug/Kg dry	40.6	05/07/19 09:02	B9E0360	JL	50			
1,1-Dichloroethene	< 31.8	31.8		ug/Kg dry	31.8	05/07/19 09:02	B9E0360	JL	50			
1,2,4-Trimethylbenzene	< 25.0	25.0		ug/Kg dry	15.7	05/07/19 09:02	B9E0360	JL	50			
1,2-Dibromo-3-chloropropane	< 44.5	44.5		ug/Kg dry	44.5	05/07/19 09:02	B9E0360	JL	50			
1,2-Dibromoethane	< 25.0	25.0		ug/Kg dry	13.6	05/07/19 09:02	B9E0360	JL	50			
1,2-Dichloroethane	< 25.0	25.0		ug/Kg dry	9.85	05/07/19 09:02	B9E0360	JL	50			
1,2-Dichloropropane	< 25.0	25.0		ug/Kg dry	18.2	05/07/19 09:02	B9E0360	JL	50			
1,3,5-Trimethylbenzene	< 25.0	25.0		ug/Kg dry	15.4	05/07/19 09:02	B9E0360	JL	50			
1-Butanol	< 465	465		ug/Kg dry	465	05/07/19 09:02	B9E0360	JL	50			
2-Butanone	< 116	116		ug/Kg dry	116	05/07/19 09:02	B9E0360	JL	50			
2-Hexanone	< 79.8	79.8		ug/Kg dry	79.8	05/07/19 09:02	B9E0360	JL	50			
4-Methyl-2-pentanone	< 53.8	53.8		ug/Kg dry	53.8	05/07/19 09:02	B9E0360	JL	50			
Acetone	< 198	198		ug/Kg dry	198	05/07/19 09:02	B9E0360	JL	50			
Acrylonitrile	< 57.0	57.0		ug/Kg dry	57.0	05/07/19 09:02	B9E0360	JL	50			
Benzene	< 25.0	25.0		ug/Kg dry	11.7	05/07/19 09:02	B9E0360	JL	50			
Bromodichloromethane	< 25.0	25.0		ug/Kg dry	17.4	05/07/19 09:02	B9E0360	JL	50			
Bromoform	< 25.0	25.0		ug/Kg dry	19.0	05/07/19 09:02	B9E0360	JL	50			
Carbon disulfide	< 25.0	25.0		ug/Kg dry	14.2	05/07/19 09:02	B9E0360	JL	50			
Carbon tetrachloride	< 25.0	25.0		ug/Kg dry	12.3	05/07/19 09:02	B9E0360	JL	50			
Chlorobenzene	< 25.0	25.0		ug/Kg dry	13.5	05/07/19 09:02	B9E0360	JL	50			
Chloroform	< 25.2	25.2		ug/Kg dry	25.2	05/07/19 09:02	B9E0360	JL	50			
cis-1,2-Dichloroethene	< 27.8	27.8		ug/Kg dry	27.8	05/07/19 09:02	B9E0360	JL	50			
Dibromochloromethane	< 25.0	25.0		ug/Kg dry	22.1	05/07/19 09:02	B9E0360	JL	50			
Ethylbenzene	< 25.0	25.0		ug/Kg dry	17.4	05/07/19 09:02	B9E0360	JL	50			
m,p-Xylene	< 86.4	86.4		ug/Kg dry	86.4	05/07/19 09:02	B9E0360	JL	50			
Methyl tert-butyl ether	< 25.0	25.0		ug/Kg dry	20.3	05/07/19 09:02	B9E0360	JL	50			
Methylene chloride	< 47.5	47.5		ug/Kg dry	47.5	05/07/19 09:02	B9E0360	JL	50			
o-Xylene	< 25.0	25.0		ug/Kg dry	12.0	05/07/19 09:02	B9E0360	JL	50			
Styrene	< 25.0	25.0		ug/Kg dry	17.3	05/07/19 09:02	B9E0360	JL	50			
Tetrachloroethene	6110	25.0		ug/Kg dry	21.0	05/07/19 09:02	B9E0360	JL	50			
Toluene	< 25.0	25.0		ug/Kg dry	15.8	05/07/19 09:02	B9E0360	JL	50			
trans-1,2-Dichloroethene	< 38.3	38.3		ug/Kg dry	38.3	05/07/19 09:02	B9E0360	JL	50			
Trichloroethene	< 25.0	25.0		ug/Kg dry	14.0	05/07/19 09:02	B9E0360	JL	50			
Vinyl acetate	< 31.1	31.1		ug/Kg dry	31.1	05/07/19 09:02	B9E0360	JL	50			
Vinyl chloride	< 25.0	25.0		ug/Kg dry	19.2	05/07/19 09:02	B9E0360	JL	50			
Xylenes, Total	< 98.4	98.4		ug/Kg dry	98.4	05/07/19 09:02	B9E0360	JL	50			
1,2-Dichloroethene, Total	< 66.2	66.2		ug/Kg dry	66.2	05/07/19 09:02	B9E0360	JL	50			

<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 109%</i>		<i>Limits: 78-137</i>		<i>05/07/19 09:02</i>		<i>B9E0360</i>	<i>JL</i>	<i>50</i>

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Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: GP-2 15'-16'
Report Date: 05/13/2019
Collection Date: 05/01/2019 14:00
Matrix: Soil
Lab ID: 19E0242-06 (Continued)

Analyses	Result	EMT Reporting		MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual Units					
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)								
Surrogate: 1,2-Dichloroethane-d4				Recovery: 115% Limits: 86-137	05/07/19 09:02	B9E0360	JL	50
Surrogate: Fluorobenzene				Recovery: 98% Limits: 80-120	05/07/19 09:02	B9E0360	JL	50
Surrogate: Toluene-d8				Recovery: 90% Limits: 73-112	05/07/19 09:02	B9E0360	JL	50
Surrogate: 4-Bromofluorobenzene				Recovery: 102% Limits: 85-120	05/07/19 09:02	B9E0360	JL	50
Surrogate: 1,2-Dichlorobenzene-d4				Recovery: 110% Limits: 85-128	05/07/19 09:02	B9E0360	JL	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: GP-3 3'-4'
Report Date: 05/13/2019
Collection Date: 05/01/2019 14:30
Matrix: Soil
Lab ID: 19E0242-07

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Reporting Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	85.1	0.100		% (Percent)	0.00500	05/07/19 16:04	B9E0235	TB2	1	
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 30.6	30.6		ug/Kg dry	30.6	05/07/19 09:36	B9E0360	JL	50	
1,1,2,2-Tetrachloroethane	< 29.6	29.6		ug/Kg dry	29.6	05/07/19 09:36	B9E0360	JL	50	
1,1,2-Trichloroethane	< 30.4	30.4		ug/Kg dry	30.4	05/07/19 09:36	B9E0360	JL	50	
1,1-Dichloroethane	< 46.0	46.0		ug/Kg dry	46.0	05/07/19 09:36	B9E0360	JL	50	
1,1-Dichloroethene	< 36.0	36.0		ug/Kg dry	36.0	05/07/19 09:36	B9E0360	JL	50	
1,2,4-Trimethylbenzene	< 25.0	25.0		ug/Kg dry	17.8	05/07/19 09:36	B9E0360	JL	50	
1,2-Dibromo-3-chloropropane	< 50.4	50.4		ug/Kg dry	50.4	05/07/19 09:36	B9E0360	JL	50	
1,2-Dibromoethane	< 25.0	25.0		ug/Kg dry	15.4	05/07/19 09:36	B9E0360	JL	50	
1,2-Dichloroethane	< 25.0	25.0		ug/Kg dry	11.2	05/07/19 09:36	B9E0360	JL	50	
1,2-Dichloropropane	< 25.0	25.0		ug/Kg dry	20.7	05/07/19 09:36	B9E0360	JL	50	
1,3,5-Trimethylbenzene	< 25.0	25.0		ug/Kg dry	17.4	05/07/19 09:36	B9E0360	JL	50	
1-Butanol	< 527	527		ug/Kg dry	527	05/07/19 09:36	B9E0360	JL	50	
2-Butanone	< 131	131		ug/Kg dry	131	05/07/19 09:36	B9E0360	JL	50	
2-Hexanone	< 90.5	90.5		ug/Kg dry	90.5	05/07/19 09:36	B9E0360	JL	50	
4-Methyl-2-pentanone	< 60.9	60.9		ug/Kg dry	60.9	05/07/19 09:36	B9E0360	JL	50	
Acetone	< 225	225		ug/Kg dry	225	05/07/19 09:36	B9E0360	JL	50	
Acrylonitrile	< 64.6	64.6		ug/Kg dry	64.6	05/07/19 09:36	B9E0360	JL	50	
Benzene	< 25.0	25.0		ug/Kg dry	13.2	05/07/19 09:36	B9E0360	JL	50	
Bromodichloromethane	< 25.0	25.0		ug/Kg dry	19.8	05/07/19 09:36	B9E0360	JL	50	
Bromoform	< 25.0	25.0		ug/Kg dry	21.5	05/07/19 09:36	B9E0360	JL	50	
Carbon disulfide	< 25.0	25.0		ug/Kg dry	16.1	05/07/19 09:36	B9E0360	JL	50	
Carbon tetrachloride	< 25.0	25.0		ug/Kg dry	13.9	05/07/19 09:36	B9E0360	JL	50	
Chlorobenzene	< 25.0	25.0		ug/Kg dry	15.3	05/07/19 09:36	B9E0360	JL	50	
Chloroform	< 28.6	28.6		ug/Kg dry	28.6	05/07/19 09:36	B9E0360	JL	50	
cis-1,2-Dichloroethene	< 31.5	31.5		ug/Kg dry	31.5	05/07/19 09:36	B9E0360	JL	50	
Dibromochloromethane	< 25.0	25.0		ug/Kg dry	25.0	05/07/19 09:36	B9E0360	JL	50	
Ethylbenzene	< 25.0	25.0		ug/Kg dry	19.7	05/07/19 09:36	B9E0360	JL	50	
m,p-Xylene	< 97.8	97.8		ug/Kg dry	97.8	05/07/19 09:36	B9E0360	JL	50	
Methyl tert-butyl ether	< 25.0	25.0		ug/Kg dry	23.0	05/07/19 09:36	B9E0360	JL	50	
Methylene chloride	< 53.8	53.8		ug/Kg dry	53.8	05/07/19 09:36	B9E0360	JL	50	
o-Xylene	< 25.0	25.0		ug/Kg dry	13.6	05/07/19 09:36	B9E0360	JL	50	
Styrene	< 25.0	25.0		ug/Kg dry	19.7	05/07/19 09:36	B9E0360	JL	50	
Tetrachloroethene	< 25.0	25.0		ug/Kg dry	23.8	05/07/19 09:36	B9E0360	JL	50	
Toluene	< 25.0	25.0		ug/Kg dry	17.9	05/07/19 09:36	B9E0360	JL	50	
trans-1,2-Dichloroethene	< 43.4	43.4		ug/Kg dry	43.4	05/07/19 09:36	B9E0360	JL	50	
Trichloroethene	< 25.0	25.0		ug/Kg dry	15.9	05/07/19 09:36	B9E0360	JL	50	
Vinyl acetate	< 35.3	35.3		ug/Kg dry	35.3	05/07/19 09:36	B9E0360	JL	50	
Vinyl chloride	< 25.0	25.0		ug/Kg dry	21.7	05/07/19 09:36	B9E0360	JL	50	
Xylenes, Total	< 111	111		ug/Kg dry	111	05/07/19 09:36	B9E0360	JL	50	
1,2-Dichloroethene, Total	< 75.0	75.0		ug/Kg dry	75.0	05/07/19 09:36	B9E0360	JL	50	
Surrogate: Dibromofluoromethane					Recovery: 111%	Limits: 78-137	05/07/19 09:36	B9E0360	JL	50

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Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: GP-3 3'-4'
Report Date: 05/13/2019
Collection Date: 05/01/2019 14:30
Matrix: Soil
Lab ID: 19E0242-07 (Continued)

Analyses	Result	EMT Reporting		MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual Units					
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)								
Surrogate: 1,2-Dichloroethane-d4				Recovery: 120% Limits: 86-137	05/07/19 09:36	B9E0360	JL	50
Surrogate: Fluorobenzene				Recovery: 101% Limits: 80-120	05/07/19 09:36	B9E0360	JL	50
Surrogate: Toluene-d8				Recovery: 90% Limits: 73-112	05/07/19 09:36	B9E0360	JL	50
Surrogate: 4-Bromofluorobenzene				Recovery: 100% Limits: 85-120	05/07/19 09:36	B9E0360	JL	50
Surrogate: 1,2-Dichlorobenzene-d4				Recovery: 112% Limits: 85-128	05/07/19 09:36	B9E0360	JL	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: GP-3 6'-7'
Report Date: 05/13/2019
Collection Date: 05/01/2019 14:45
Matrix: Soil
Lab ID: 19E0242-08

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Reporting Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	84.9	0.100		% (Percent)	0.00500	05/07/19 16:06	B9E0235	TB2	1	
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 25.0	25.0		ug/Kg dry	24.1	05/07/19 10:09	B9E0360	JL	50	
1,1,2,2-Tetrachloroethane	< 25.0	25.0		ug/Kg dry	23.3	05/07/19 10:09	B9E0360	JL	50	
1,1,2-Trichloroethane	< 25.0	25.0		ug/Kg dry	23.9	05/07/19 10:09	B9E0360	JL	50	
1,1-Dichloroethane	< 36.2	36.2		ug/Kg dry	36.2	05/07/19 10:09	B9E0360	JL	50	
1,1-Dichloroethene	< 28.3	28.3		ug/Kg dry	28.3	05/07/19 10:09	B9E0360	JL	50	
1,2,4-Trimethylbenzene	< 25.0	25.0		ug/Kg dry	14.0	05/07/19 10:09	B9E0360	JL	50	
1,2-Dibromo-3-chloropropane	< 39.6	39.6		ug/Kg dry	39.6	05/07/19 10:09	B9E0360	JL	50	
1,2-Dibromoethane	< 25.0	25.0		ug/Kg dry	12.1	05/07/19 10:09	B9E0360	JL	50	
1,2-Dichloroethane	< 25.0	25.0		ug/Kg dry	8.78	05/07/19 10:09	B9E0360	JL	50	
1,2-Dichloropropane	< 25.0	25.0		ug/Kg dry	16.3	05/07/19 10:09	B9E0360	JL	50	
1,3,5-Trimethylbenzene	< 25.0	25.0		ug/Kg dry	13.7	05/07/19 10:09	B9E0360	JL	50	
1-Butanol	< 415	415		ug/Kg dry	415	05/07/19 10:09	B9E0360	JL	50	
2-Butanone	< 103	103		ug/Kg dry	103	05/07/19 10:09	B9E0360	JL	50	
2-Hexanone	< 71.1	71.1		ug/Kg dry	71.1	05/07/19 10:09	B9E0360	JL	50	
4-Methyl-2-pentanone	< 47.9	47.9		ug/Kg dry	47.9	05/07/19 10:09	B9E0360	JL	50	
Acetone	< 177	177		ug/Kg dry	177	05/07/19 10:09	B9E0360	JL	50	
Acrylonitrile	< 50.8	50.8		ug/Kg dry	50.8	05/07/19 10:09	B9E0360	JL	50	
Benzene	< 25.0	25.0		ug/Kg dry	10.4	05/07/19 10:09	B9E0360	JL	50	
Bromodichloromethane	< 25.0	25.0		ug/Kg dry	15.5	05/07/19 10:09	B9E0360	JL	50	
Bromoform	< 25.0	25.0		ug/Kg dry	16.9	05/07/19 10:09	B9E0360	JL	50	
Carbon disulfide	< 25.0	25.0		ug/Kg dry	12.7	05/07/19 10:09	B9E0360	JL	50	
Carbon tetrachloride	< 25.0	25.0		ug/Kg dry	10.9	05/07/19 10:09	B9E0360	JL	50	
Chlorobenzene	< 25.0	25.0		ug/Kg dry	12.0	05/07/19 10:09	B9E0360	JL	50	
Chloroform	< 25.0	25.0		ug/Kg dry	22.5	05/07/19 10:09	B9E0360	JL	50	
cis-1,2-Dichloroethene	< 25.0	25.0		ug/Kg dry	24.8	05/07/19 10:09	B9E0360	JL	50	
Dibromochloromethane	< 25.0	25.0		ug/Kg dry	19.7	05/07/19 10:09	B9E0360	JL	50	
Ethylbenzene	< 25.0	25.0		ug/Kg dry	15.5	05/07/19 10:09	B9E0360	JL	50	
m,p-Xylene	< 77.0	77.0		ug/Kg dry	77.0	05/07/19 10:09	B9E0360	JL	50	
Methyl tert-butyl ether	< 25.0	25.0		ug/Kg dry	18.1	05/07/19 10:09	B9E0360	JL	50	
Methylene chloride	< 42.3	42.3		ug/Kg dry	42.3	05/07/19 10:09	B9E0360	JL	50	
o-Xylene	< 25.0	25.0		ug/Kg dry	10.7	05/07/19 10:09	B9E0360	JL	50	
Styrene	< 25.0	25.0		ug/Kg dry	15.5	05/07/19 10:09	B9E0360	JL	50	
Tetrachloroethene	100	25.0		ug/Kg dry	18.8	05/07/19 10:09	B9E0360	JL	50	
Toluene	< 25.0	25.0		ug/Kg dry	14.1	05/07/19 10:09	B9E0360	JL	50	
trans-1,2-Dichloroethene	< 34.2	34.2		ug/Kg dry	34.2	05/07/19 10:09	B9E0360	JL	50	
Trichloroethene	< 25.0	25.0		ug/Kg dry	12.5	05/07/19 10:09	B9E0360	JL	50	
Vinyl acetate	< 27.7	27.7		ug/Kg dry	27.7	05/07/19 10:09	B9E0360	JL	50	
Vinyl chloride	< 25.0	25.0		ug/Kg dry	17.1	05/07/19 10:09	B9E0360	JL	50	
Xylenes, Total	< 87.7	87.7		ug/Kg dry	87.7	05/07/19 10:09	B9E0360	JL	50	
1,2-Dichloroethene, Total	< 59.0	59.0		ug/Kg dry	59.0	05/07/19 10:09	B9E0360	JL	50	
<i>Surrogate: Dibromofluoromethane</i>					<i>Recovery: 114%</i>	<i>Limits: 78-137</i>	<i>05/07/19 10:09</i>	<i>B9E0360</i>	<i>JL</i>	<i>50</i>

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Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: GP-3 6'-7'
Report Date: 05/13/2019
Collection Date: 05/01/2019 14:45
Matrix: Soil
Lab ID: 19E0242-08 (Continued)

Analyses	Result	EMT Reporting		MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual Units					
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)								
Surrogate: 1,2-Dichloroethane-d4			Recovery: 120%	Limits: 86-137	05/07/19 10:09	B9E0360	JL	50
Surrogate: Fluorobenzene			Recovery: 102%	Limits: 80-120	05/07/19 10:09	B9E0360	JL	50
Surrogate: Toluene-d8			Recovery: 91%	Limits: 73-112	05/07/19 10:09	B9E0360	JL	50
Surrogate: 4-Bromofluorobenzene			Recovery: 102%	Limits: 85-120	05/07/19 10:09	B9E0360	JL	50
Surrogate: 1,2-Dichlorobenzene-d4			Recovery: 114%	Limits: 85-128	05/07/19 10:09	B9E0360	JL	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: GP-3 13'-14'
Report Date: 05/13/2019
Collection Date: 05/01/2019 15:00
Matrix: Soil
Lab ID: 19E0242-09

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Reporting Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	93.4	0.100		% (Percent)	0.00500	05/07/19 16:08	B9E0235	TB2	1	
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 28.1	28.1		ug/Kg dry	28.1	05/07/19 10:43	B9E0360	JL	50	
1,1,2,2-Tetrachloroethane	< 27.2	27.2		ug/Kg dry	27.2	05/07/19 10:43	B9E0360	JL	50	
1,1,2-Trichloroethane	< 27.9	27.9		ug/Kg dry	27.9	05/07/19 10:43	B9E0360	JL	50	
1,1-Dichloroethane	< 42.3	42.3		ug/Kg dry	42.3	05/07/19 10:43	B9E0360	JL	50	
1,1-Dichloroethene	< 33.1	33.1		ug/Kg dry	33.1	05/07/19 10:43	B9E0360	JL	50	
1,2,4-Trimethylbenzene	< 25.0	25.0		ug/Kg dry	16.3	05/07/19 10:43	B9E0360	JL	50	
1,2-Dibromo-3-chloropropane	< 46.3	46.3		ug/Kg dry	46.3	05/07/19 10:43	B9E0360	JL	50	
1,2-Dibromoethane	< 25.0	25.0		ug/Kg dry	14.2	05/07/19 10:43	B9E0360	JL	50	
1,2-Dichloroethane	< 25.0	25.0		ug/Kg dry	10.3	05/07/19 10:43	B9E0360	JL	50	
1,2-Dichloropropane	< 25.0	25.0		ug/Kg dry	19.0	05/07/19 10:43	B9E0360	JL	50	
1,3,5-Trimethylbenzene	< 25.0	25.0		ug/Kg dry	16.0	05/07/19 10:43	B9E0360	JL	50	
1-Butanol	< 484	484		ug/Kg dry	484	05/07/19 10:43	B9E0360	JL	50	
2-Butanone	< 120	120		ug/Kg dry	120	05/07/19 10:43	B9E0360	JL	50	
2-Hexanone	< 83.1	83.1		ug/Kg dry	83.1	05/07/19 10:43	B9E0360	JL	50	
4-Methyl-2-pentanone	< 56.0	56.0		ug/Kg dry	56.0	05/07/19 10:43	B9E0360	JL	50	
Acetone	< 206	206		ug/Kg dry	206	05/07/19 10:43	B9E0360	JL	50	
Acrylonitrile	< 59.4	59.4		ug/Kg dry	59.4	05/07/19 10:43	B9E0360	JL	50	
Benzene	< 25.0	25.0		ug/Kg dry	12.2	05/07/19 10:43	B9E0360	JL	50	
Bromodichloromethane	< 25.0	25.0		ug/Kg dry	18.1	05/07/19 10:43	B9E0360	JL	50	
Bromoform	< 25.0	25.0		ug/Kg dry	19.8	05/07/19 10:43	B9E0360	JL	50	
Carbon disulfide	< 25.0	25.0		ug/Kg dry	14.8	05/07/19 10:43	B9E0360	JL	50	
Carbon tetrachloride	< 25.0	25.0		ug/Kg dry	12.8	05/07/19 10:43	B9E0360	JL	50	
Chlorobenzene	< 25.0	25.0		ug/Kg dry	14.1	05/07/19 10:43	B9E0360	JL	50	
Chloroform	< 26.3	26.3		ug/Kg dry	26.3	05/07/19 10:43	B9E0360	JL	50	
cis-1,2-Dichloroethene	< 29.0	29.0		ug/Kg dry	29.0	05/07/19 10:43	B9E0360	JL	50	
Dibromochloromethane	< 25.0	25.0		ug/Kg dry	23.0	05/07/19 10:43	B9E0360	JL	50	
Ethylbenzene	< 25.0	25.0		ug/Kg dry	18.1	05/07/19 10:43	B9E0360	JL	50	
m,p-Xylene	< 89.9	89.9		ug/Kg dry	89.9	05/07/19 10:43	B9E0360	JL	50	
Methyl tert-butyl ether	< 25.0	25.0		ug/Kg dry	21.1	05/07/19 10:43	B9E0360	JL	50	
Methylene chloride	< 49.4	49.4		ug/Kg dry	49.4	05/07/19 10:43	B9E0360	JL	50	
o-Xylene	< 25.0	25.0		ug/Kg dry	12.5	05/07/19 10:43	B9E0360	JL	50	
Styrene	< 25.0	25.0		ug/Kg dry	18.1	05/07/19 10:43	B9E0360	JL	50	
Tetrachloroethene	632	25.0		ug/Kg dry	21.9	05/07/19 10:43	B9E0360	JL	50	
Toluene	< 25.0	25.0		ug/Kg dry	16.4	05/07/19 10:43	B9E0360	JL	50	
trans-1,2-Dichloroethene	< 39.9	39.9		ug/Kg dry	39.9	05/07/19 10:43	B9E0360	JL	50	
Trichloroethene	< 25.0	25.0		ug/Kg dry	14.6	05/07/19 10:43	B9E0360	JL	50	
Vinyl acetate	< 32.4	32.4		ug/Kg dry	32.4	05/07/19 10:43	B9E0360	JL	50	
Vinyl chloride	< 25.0	25.0		ug/Kg dry	20.0	05/07/19 10:43	B9E0360	JL	50	
Xylenes, Total	< 102	102		ug/Kg dry	102	05/07/19 10:43	B9E0360	JL	50	
1,2-Dichloroethene, Total	< 68.9	68.9		ug/Kg dry	68.9	05/07/19 10:43	B9E0360	JL	50	

<i>Surrogate: Dibromofluoromethane</i>				Recovery: 116%		Limits: 78-137	05/07/19 10:43	B9E0360	JL	50

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Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: GP-3 13'-14'
Report Date: 05/13/2019
Collection Date: 05/01/2019 15:00
Matrix: Soil
Lab ID: 19E0242-09 (Continued)

Analyses	Result	EMT Reporting		MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual Units					
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)								
Surrogate: 1,2-Dichloroethane-d4				Recovery: 116% Limits: 86-137	05/07/19 10:43	B9E0360	JL	50
Surrogate: Fluorobenzene				Recovery: 100% Limits: 80-120	05/07/19 10:43	B9E0360	JL	50
Surrogate: Toluene-d8				Recovery: 91% Limits: 73-112	05/07/19 10:43	B9E0360	JL	50
Surrogate: 4-Bromofluorobenzene				Recovery: 102% Limits: 85-120	05/07/19 10:43	B9E0360	JL	50
Surrogate: 1,2-Dichlorobenzene-d4				Recovery: 114% Limits: 85-128	05/07/19 10:43	B9E0360	JL	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: TW1
Report Date: 05/13/2019
Collection Date: 05/01/2019 13:15
Matrix: Water
Lab ID: 19E0242-10

Analyses	Result	EMT		MDL	Date/Time Analyzed	Batch	Analyst	DF
		Reporting Limit	Qual Units					
Volatile Organic Compounds by GC/MS								
Method: SW-846 8260B/WDNR: PUBL-FW-140 / SW5030								
1,1,1-Trichloroethane	< 0.349	2.00	ug/L	0.349	05/09/19 21:30	B9E0358	JL	1
1,1,2,2-Tetrachloroethane	< 0.291	2.00	ug/L	0.291	05/09/19 21:30	B9E0358	JL	1
1,1,2-Trichloroethane	< 0.264	2.00	ug/L	0.264	05/09/19 21:30	B9E0358	JL	1
1,1-Dichloroethane	< 1.94	8.00	ug/L	1.94	05/09/19 21:30	B9E0358	JL	1
1,1-Dichloroethene	< 1.02	4.00	ug/L	1.02	05/09/19 21:30	B9E0358	JL	1
1,2,4-Trimethylbenzene	< 0.338	2.00	ug/L	0.338	05/09/19 21:30	B9E0358	JL	1
1,2-Dibromo-3-chloropropane	< 0.488	2.00	ug/L	0.488	05/09/19 21:30	B9E0358	JL	1
1,2-Dibromoethane	< 0.320	2.00	ug/L	0.320	05/09/19 21:30	B9E0358	JL	1
1,2-Dichloroethane	< 0.274	2.00	ug/L	0.274	05/09/19 21:30	B9E0358	JL	1
1,2-Dichloropropane	< 1.11	4.00	ug/L	1.11	05/09/19 21:30	B9E0358	JL	1
1,3,5-Trimethylbenzene	< 0.310	2.00	ug/L	0.310	05/09/19 21:30	B9E0358	JL	1
1-Butanol	< 6.69	90.0	ug/L	6.69	05/09/19 21:30	B9E0358	JL	1
2-Butanone	< 1.38	8.00	ug/L	1.38	05/09/19 21:30	B9E0358	JL	1
2-Hexanone	< 1.04	8.00	ug/L	1.04	05/09/19 21:30	B9E0358	JL	1
4-Methyl-2-pentanone	< 0.660	28.0	ug/L	0.660	05/09/19 21:30	B9E0358	JL	1
Acetone	< 3.75	28.0	ug/L	3.75	05/09/19 21:30	B9E0358	JL	1
Acrolein	< 6.63	20.0	ug/L	6.63	05/09/19 21:30	B9E0358	JL	1
Acrylonitrile	< 0.742	4.00	ug/L	0.742	05/09/19 21:30	B9E0358	JL	1
Benzene	< 0.370	2.00	ug/L	0.370	05/09/19 21:30	B9E0358	JL	1
Bromodichloromethane	< 0.310	2.00	ug/L	0.310	05/09/19 21:30	B9E0358	JL	1
Bromoform	< 0.254	2.00	ug/L	0.254	05/09/19 21:30	B9E0358	JL	1
Bromomethane	< 3.30	20.0	ug/L	3.30	05/09/19 21:30	B9E0358	JL	1
Carbon disulfide	< 0.259	2.00	ug/L	0.259	05/09/19 21:30	B9E0358	JL	1
Carbon tetrachloride	< 0.390	2.00	ug/L	0.390	05/09/19 21:30	B9E0358	JL	1
Chlorobenzene	< 0.358	2.00	ug/L	0.358	05/09/19 21:30	B9E0358	JL	1
Chloroethane	< 0.906	4.00	ug/L	0.906	05/09/19 21:30	B9E0358	JL	1
Chloroform	< 0.397	2.00	ug/L	0.397	05/09/19 21:30	B9E0358	JL	1
Chloromethane	< 2.23	8.00	ug/L	2.23	05/09/19 21:30	B9E0358	JL	1
cis-1,2-Dichloroethene	< 0.421	2.00	ug/L	0.421	05/09/19 21:30	B9E0358	JL	1
cis-1,3-Dichloropropene	< 0.278	2.00	ug/L	0.278	05/09/19 21:30	B9E0358	JL	1
Dibromochloromethane	< 0.492	2.00	ug/L	0.492	05/09/19 21:30	B9E0358	JL	1
Ethylbenzene	< 0.431	2.00	ug/L	0.431	05/09/19 21:30	B9E0358	JL	1
m,p-Xylene	< 0.310	4.00	ug/L	0.310	05/09/19 21:30	B9E0358	JL	1
Methyl tert-butyl ether	< 0.322	2.00	ug/L	0.322	05/09/19 21:30	B9E0358	JL	1
Methylene chloride	< 0.358	2.00	ug/L	0.358	05/09/19 21:30	B9E0358	JL	1
o-Xylene	< 0.349	2.00	ug/L	0.349	05/09/19 21:30	B9E0358	JL	1
Styrene	< 0.534	4.00	ug/L	0.534	05/09/19 21:30	B9E0358	JL	1
Tetrachloroethene	1.92	2.00	J ug/L	0.400	05/09/19 21:30	B9E0358	JL	1
Toluene	< 0.299	2.00	ug/L	0.299	05/09/19 21:30	B9E0358	JL	1
trans-1,2-Dichloroethene	< 0.433	2.00	ug/L	0.433	05/09/19 21:30	B9E0358	JL	1
trans-1,3-Dichloropropene	< 0.314	2.00	ug/L	0.314	05/09/19 21:30	B9E0358	JL	1
Trichloroethene	< 0.439	2.00	ug/L	0.439	05/09/19 21:30	B9E0358	JL	1
Vinyl acetate	< 1.01	8.00	ug/L	1.01	05/09/19 21:30	B9E0358	JL	1
Vinyl chloride	< 0.316	2.00	ug/L	0.316	05/09/19 21:30	B9E0358	JL	1
Xylenes, Total	< 0.660	6.00	ug/L	0.660	05/09/19 21:30	B9E0358	JL	1
1,3-Dichloropropene, Total	< 0.592	4.00	ug/L	0.592	05/09/19 21:30	B9E0358	JL	1

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Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: TW1
Report Date: 05/13/2019
Collection Date: 05/01/2019 13:15
Matrix: Water
Lab ID: 19E0242-10 (Continued)

Analyses	Result	EMT Reporting		MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual Units					
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW-846 8260B/WDNR: PUBL-FW-140 / SW5030 (Continued)								
Surrogate: Dibromofluoromethane			Recovery: 108%	Limits: 80-135	05/09/19 21:30	B9E0358	JL	1
Surrogate: 1,2-Dichloroethane-d4			Recovery: 124%	Limits: 86-132	05/09/19 21:30	B9E0358	JL	1
Surrogate: Fluorobenzene			Recovery: 101%	Limits: 80-116	05/09/19 21:30	B9E0358	JL	1
Surrogate: Toluene-d8			Recovery: 90%	Limits: 73-120	05/09/19 21:30	B9E0358	JL	1
Surrogate: 4-Bromofluorobenzene			Recovery: 97%	Limits: 85-114	05/09/19 21:30	B9E0358	JL	1
Surrogate: 1,2-Dichlorobenzene-d4			Recovery: 119%	Limits: 88-136	05/09/19 21:30	B9E0358	JL	1

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: TW2
Report Date: 05/13/2019
Collection Date: 05/01/2019 14:15
Matrix: Water
Lab ID: 19E0242-11

Analyses	Result	EMT		MDL	Date/Time Analyzed	Batch	Analyst	DF
		Reporting Limit	Qual Units					
Volatile Organic Compounds by GC/MS								
Method: SW-846 8260B/WDNR: PUBL-FW-140 / SW5030								
1,1,1-Trichloroethane	< 0.349	2.00	ug/L	0.349	05/09/19 22:04	B9E0358	JL	1
1,1,2,2-Tetrachloroethane	< 0.291	2.00	ug/L	0.291	05/09/19 22:04	B9E0358	JL	1
1,1,2-Trichloroethane	< 0.264	2.00	ug/L	0.264	05/09/19 22:04	B9E0358	JL	1
1,1-Dichloroethane	< 1.94	8.00	ug/L	1.94	05/09/19 22:04	B9E0358	JL	1
1,1-Dichloroethene	< 1.02	4.00	ug/L	1.02	05/09/19 22:04	B9E0358	JL	1
1,2,4-Trimethylbenzene	< 0.338	2.00	ug/L	0.338	05/09/19 22:04	B9E0358	JL	1
1,2-Dibromo-3-chloropropane	< 0.488	2.00	ug/L	0.488	05/09/19 22:04	B9E0358	JL	1
1,2-Dibromoethane	< 0.320	2.00	ug/L	0.320	05/09/19 22:04	B9E0358	JL	1
1,2-Dichloroethane	< 0.274	2.00	ug/L	0.274	05/09/19 22:04	B9E0358	JL	1
1,2-Dichloropropane	< 1.11	4.00	ug/L	1.11	05/09/19 22:04	B9E0358	JL	1
1,3,5-Trimethylbenzene	< 0.310	2.00	ug/L	0.310	05/09/19 22:04	B9E0358	JL	1
1-Butanol	< 6.69	90.0	ug/L	6.69	05/09/19 22:04	B9E0358	JL	1
2-Butanone	< 1.38	8.00	ug/L	1.38	05/09/19 22:04	B9E0358	JL	1
2-Hexanone	< 1.04	8.00	ug/L	1.04	05/09/19 22:04	B9E0358	JL	1
4-Methyl-2-pentanone	< 0.660	28.0	ug/L	0.660	05/09/19 22:04	B9E0358	JL	1
Acetone	< 3.75	28.0	ug/L	3.75	05/09/19 22:04	B9E0358	JL	1
Acrolein	< 6.63	20.0	ug/L	6.63	05/09/19 22:04	B9E0358	JL	1
Acrylonitrile	< 0.742	4.00	ug/L	0.742	05/09/19 22:04	B9E0358	JL	1
Benzene	< 0.370	2.00	ug/L	0.370	05/09/19 22:04	B9E0358	JL	1
Bromodichloromethane	< 0.310	2.00	ug/L	0.310	05/09/19 22:04	B9E0358	JL	1
Bromoform	< 0.254	2.00	ug/L	0.254	05/09/19 22:04	B9E0358	JL	1
Bromomethane	< 3.30	20.0	ug/L	3.30	05/09/19 22:04	B9E0358	JL	1
Carbon disulfide	< 0.259	2.00	ug/L	0.259	05/09/19 22:04	B9E0358	JL	1
Carbon tetrachloride	< 0.390	2.00	ug/L	0.390	05/09/19 22:04	B9E0358	JL	1
Chlorobenzene	< 0.358	2.00	ug/L	0.358	05/09/19 22:04	B9E0358	JL	1
Chloroethane	< 0.906	4.00	ug/L	0.906	05/09/19 22:04	B9E0358	JL	1
Chloroform	< 0.397	2.00	ug/L	0.397	05/09/19 22:04	B9E0358	JL	1
Chloromethane	< 2.23	8.00	ug/L	2.23	05/09/19 22:04	B9E0358	JL	1
cis-1,2-Dichloroethene	< 0.421	2.00	ug/L	0.421	05/09/19 22:04	B9E0358	JL	1
cis-1,3-Dichloropropene	< 0.278	2.00	ug/L	0.278	05/09/19 22:04	B9E0358	JL	1
Dibromochloromethane	< 0.492	2.00	ug/L	0.492	05/09/19 22:04	B9E0358	JL	1
Ethylbenzene	< 0.431	2.00	ug/L	0.431	05/09/19 22:04	B9E0358	JL	1
m,p-Xylene	< 0.310	4.00	ug/L	0.310	05/09/19 22:04	B9E0358	JL	1
Methyl tert-butyl ether	< 0.322	2.00	ug/L	0.322	05/09/19 22:04	B9E0358	JL	1
Methylene chloride	< 0.358	2.00	ug/L	0.358	05/09/19 22:04	B9E0358	JL	1
o-Xylene	< 0.349	2.00	ug/L	0.349	05/09/19 22:04	B9E0358	JL	1
Styrene	< 0.534	4.00	ug/L	0.534	05/09/19 22:04	B9E0358	JL	1
Tetrachloroethene	52.8	2.00	ug/L	0.400	05/09/19 22:04	B9E0358	JL	1
Toluene	< 0.299	2.00	ug/L	0.299	05/09/19 22:04	B9E0358	JL	1
trans-1,2-Dichloroethene	< 0.433	2.00	ug/L	0.433	05/09/19 22:04	B9E0358	JL	1
trans-1,3-Dichloropropene	< 0.314	2.00	ug/L	0.314	05/09/19 22:04	B9E0358	JL	1
Trichloroethene	< 0.439	2.00	ug/L	0.439	05/09/19 22:04	B9E0358	JL	1
Vinyl acetate	< 1.01	8.00	ug/L	1.01	05/09/19 22:04	B9E0358	JL	1
Vinyl chloride	< 0.316	2.00	ug/L	0.316	05/09/19 22:04	B9E0358	JL	1
Xylenes, Total	< 0.660	6.00	ug/L	0.660	05/09/19 22:04	B9E0358	JL	1
1,3-Dichloropropene, Total	< 0.592	4.00	ug/L	0.592	05/09/19 22:04	B9E0358	JL	1

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Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: TW2
Report Date: 05/13/2019
Collection Date: 05/01/2019 14:15
Matrix: Water
Lab ID: 19E0242-11 (Continued)

Analyses	Result	EMT Reporting		MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual Units					
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW-846 8260B/WDNR: PUBL-FW-140 / SW5030 (Continued)								
Surrogate: Dibromofluoromethane			Recovery: 119%	Limits: 80-135	05/09/19 22:04	B9E0358	JL	1
Surrogate: 1,2-Dichloroethane-d4			Recovery: 125%	Limits: 86-132	05/09/19 22:04	B9E0358	JL	1
Surrogate: Fluorobenzene			Recovery: 98%	Limits: 80-116	05/09/19 22:04	B9E0358	JL	1
Surrogate: Toluene-d8			Recovery: 88%	Limits: 73-120	05/09/19 22:04	B9E0358	JL	1
Surrogate: 4-Bromofluorobenzene			Recovery: 106%	Limits: 85-114	05/09/19 22:04	B9E0358	JL	1
Surrogate: 1,2-Dichlorobenzene-d4			Recovery: 118%	Limits: 88-136	05/09/19 22:04	B9E0358	JL	1

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: TW3
Report Date: 05/13/2019
Collection Date: 05/01/2019 15:15
Matrix: Water
Lab ID: 19E0242-12

Analyses	Result	EMT		MDL	Date/Time Analyzed	Batch	Analyst	DF
		Reporting Limit	Qual Units					
Volatile Organic Compounds by GC/MS								
Method: SW-846 8260B/WDNR: PUBL-FW-140 / SW5030								
1,1,1-Trichloroethane	< 0.349	2.00	ug/L	0.349	05/09/19 22:37	B9E0358	JL	1
1,1,2,2-Tetrachloroethane	< 0.291	2.00	ug/L	0.291	05/09/19 22:37	B9E0358	JL	1
1,1,2-Trichloroethane	< 0.264	2.00	ug/L	0.264	05/09/19 22:37	B9E0358	JL	1
1,1-Dichloroethane	< 1.94	8.00	ug/L	1.94	05/09/19 22:37	B9E0358	JL	1
1,1-Dichloroethene	< 1.02	4.00	ug/L	1.02	05/09/19 22:37	B9E0358	JL	1
1,2,4-Trimethylbenzene	< 0.338	2.00	ug/L	0.338	05/09/19 22:37	B9E0358	JL	1
1,2-Dibromo-3-chloropropane	< 0.488	2.00	ug/L	0.488	05/09/19 22:37	B9E0358	JL	1
1,2-Dibromoethane	< 0.320	2.00	ug/L	0.320	05/09/19 22:37	B9E0358	JL	1
1,2-Dichloroethane	< 0.274	2.00	ug/L	0.274	05/09/19 22:37	B9E0358	JL	1
1,2-Dichloropropane	< 1.11	4.00	ug/L	1.11	05/09/19 22:37	B9E0358	JL	1
1,3,5-Trimethylbenzene	< 0.310	2.00	ug/L	0.310	05/09/19 22:37	B9E0358	JL	1
1-Butanol	< 6.69	90.0	ug/L	6.69	05/09/19 22:37	B9E0358	JL	1
2-Butanone	< 1.38	8.00	ug/L	1.38	05/09/19 22:37	B9E0358	JL	1
2-Hexanone	< 1.04	8.00	ug/L	1.04	05/09/19 22:37	B9E0358	JL	1
4-Methyl-2-pentanone	< 0.660	28.0	ug/L	0.660	05/09/19 22:37	B9E0358	JL	1
Acetone	< 3.75	28.0	ug/L	3.75	05/09/19 22:37	B9E0358	JL	1
Acrolein	< 6.63	20.0	ug/L	6.63	05/09/19 22:37	B9E0358	JL	1
Acrylonitrile	< 0.742	4.00	ug/L	0.742	05/09/19 22:37	B9E0358	JL	1
Benzene	< 0.370	2.00	ug/L	0.370	05/09/19 22:37	B9E0358	JL	1
Bromodichloromethane	< 0.310	2.00	ug/L	0.310	05/09/19 22:37	B9E0358	JL	1
Bromoform	< 0.254	2.00	ug/L	0.254	05/09/19 22:37	B9E0358	JL	1
Bromomethane	< 3.30	20.0	ug/L	3.30	05/09/19 22:37	B9E0358	JL	1
Carbon disulfide	< 0.259	2.00	ug/L	0.259	05/09/19 22:37	B9E0358	JL	1
Carbon tetrachloride	< 0.390	2.00	ug/L	0.390	05/09/19 22:37	B9E0358	JL	1
Chlorobenzene	< 0.358	2.00	ug/L	0.358	05/09/19 22:37	B9E0358	JL	1
Chloroethane	< 0.906	4.00	ug/L	0.906	05/09/19 22:37	B9E0358	JL	1
Chloroform	< 0.397	2.00	ug/L	0.397	05/09/19 22:37	B9E0358	JL	1
Chloromethane	< 2.23	8.00	ug/L	2.23	05/09/19 22:37	B9E0358	JL	1
cis-1,2-Dichloroethene	< 0.421	2.00	ug/L	0.421	05/09/19 22:37	B9E0358	JL	1
cis-1,3-Dichloropropene	< 0.278	2.00	ug/L	0.278	05/09/19 22:37	B9E0358	JL	1
Dibromochloromethane	< 0.492	2.00	ug/L	0.492	05/09/19 22:37	B9E0358	JL	1
Ethylbenzene	< 0.431	2.00	ug/L	0.431	05/09/19 22:37	B9E0358	JL	1
m,p-Xylene	< 0.310	4.00	ug/L	0.310	05/09/19 22:37	B9E0358	JL	1
Methyl tert-butyl ether	< 0.322	2.00	ug/L	0.322	05/09/19 22:37	B9E0358	JL	1
Methylene chloride	< 0.358	2.00	ug/L	0.358	05/09/19 22:37	B9E0358	JL	1
o-Xylene	< 0.349	2.00	ug/L	0.349	05/09/19 22:37	B9E0358	JL	1
Styrene	< 0.534	4.00	ug/L	0.534	05/09/19 22:37	B9E0358	JL	1
Tetrachloroethene	< 0.400	2.00	ug/L	0.400	05/09/19 22:37	B9E0358	JL	1
Toluene	< 0.299	2.00	ug/L	0.299	05/09/19 22:37	B9E0358	JL	1
trans-1,2-Dichloroethene	< 0.433	2.00	ug/L	0.433	05/09/19 22:37	B9E0358	JL	1
trans-1,3-Dichloropropene	< 0.314	2.00	ug/L	0.314	05/09/19 22:37	B9E0358	JL	1
Trichloroethene	< 0.439	2.00	ug/L	0.439	05/09/19 22:37	B9E0358	JL	1
Vinyl acetate	< 1.01	8.00	ug/L	1.01	05/09/19 22:37	B9E0358	JL	1
Vinyl chloride	< 0.316	2.00	ug/L	0.316	05/09/19 22:37	B9E0358	JL	1
Xylenes, Total	< 0.660	6.00	ug/L	0.660	05/09/19 22:37	B9E0358	JL	1
1,3-Dichloropropene, Total	< 0.592	4.00	ug/L	0.592	05/09/19 22:37	B9E0358	JL	1

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Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Client Sample ID: TW3
Report Date: 05/13/2019
Collection Date: 05/01/2019 15:15
Matrix: Water
Lab ID: 19E0242-12 (Continued)

Analyses	EMT Reporting			MDL	Date/Time Analyzed	Batch	Analyst	DF
	Result	Limit	Qual Units					
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW-846 8260B/WDNR: PUBL-FW-140 / SW5030 (Continued)								
Surrogate: Dibromofluoromethane			Recovery: 116%	Limits: 80-135	05/09/19 22:37	B9E0358	JL	1
Surrogate: 1,2-Dichloroethane-d4			Recovery: 119%	Limits: 86-132	05/09/19 22:37	B9E0358	JL	1
Surrogate: Fluorobenzene			Recovery: 103%	Limits: 80-116	05/09/19 22:37	B9E0358	JL	1
Surrogate: Toluene-d8			Recovery: 88%	Limits: 73-120	05/09/19 22:37	B9E0358	JL	1
Surrogate: 4-Bromofluorobenzene			Recovery: 100%	Limits: 85-114	05/09/19 22:37	B9E0358	JL	1
Surrogate: 1,2-Dichlorobenzene-d4			Recovery: 120%	Limits: 88-136	05/09/19 22:37	B9E0358	JL	1

Dates Report

Client: United Engineering Consultants, Inc.

Report Date: 05/13/2019

Project: UEC Analysis
19006

Work Order: 19E0242

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
19E0242-01	GP-1 2'-3'	05/01/19	Soil	Total Solids / Percent Moisture		05/07/19 15:50	05/07/19 15:52	B9E0235	
				Volatile Organic Compounds (WDNR) by GC/MS		05/06/19 11:59	05/07/19 06:13	B9E0360	S9E0185
19E0242-02	GP-1 5'-6'	05/01/19	Soil	Total Solids / Percent Moisture		05/07/19 15:50	05/07/19 15:54	B9E0235	
				Volatile Organic Compounds (WDNR) by GC/MS		05/06/19 11:59	05/07/19 06:47	B9E0360	S9E0185
19E0242-03	GP-1 13'-14'	05/01/19	Soil	Total Solids / Percent Moisture		05/07/19 15:50	05/07/19 15:56	B9E0235	
				Volatile Organic Compounds (WDNR) by GC/MS		05/06/19 11:59	05/07/19 07:21	B9E0360	S9E0185
19E0242-04	GP-2 3'-4'	05/01/19	Soil	Total Solids / Percent Moisture		05/07/19 15:50	05/07/19 15:58	B9E0235	
				Volatile Organic Compounds (WDNR) by GC/MS		05/06/19 11:59	05/07/19 07:54	B9E0360	S9E0185
19E0242-05	GP-2 7'-8'	05/01/19	Soil	Total Solids / Percent Moisture		05/07/19 15:50	05/07/19 16:00	B9E0235	
				Volatile Organic Compounds (WDNR) by GC/MS		05/06/19 11:59	05/07/19 08:28	B9E0360	S9E0185
19E0242-06	GP-2 15'-16'	05/01/19	Soil	Total Solids / Percent Moisture		05/07/19 15:50	05/07/19 16:02	B9E0235	
				Volatile Organic Compounds (WDNR) by GC/MS		05/06/19 11:59	05/07/19 09:02	B9E0360	S9E0185
19E0242-07	GP-3 3'-4'	05/01/19	Soil	Total Solids / Percent Moisture		05/07/19 15:50	05/07/19 16:04	B9E0235	
				Volatile Organic Compounds (WDNR) by GC/MS		05/06/19 11:59	05/07/19 09:36	B9E0360	S9E0185
19E0242-08	GP-3 6'-7'	05/01/19	Soil	Total Solids / Percent Moisture		05/07/19 15:50	05/07/19 16:06	B9E0235	
				Volatile Organic Compounds (WDNR) by GC/MS		05/06/19 11:59	05/07/19 10:09	B9E0360	S9E0185
19E0242-09	GP-3 13'-14'	05/01/19	Soil	Total Solids / Percent Moisture		05/07/19 15:50	05/07/19 16:08	B9E0235	
				Volatile Organic Compounds (WDNR) by GC/MS		05/06/19 11:59	05/07/19 10:43	B9E0360	S9E0185
19E0242-10	TW1	05/01/19	Water	Volatile Organic Compounds (WDNR) by GC/MS		05/09/19 11:37	05/09/19 21:30	B9E0358	S9E0183
19E0242-11	TW2	05/01/19	Water	Volatile Organic Compounds (WDNR) by GC/MS		05/09/19 11:37	05/09/19 22:04		
19E0242-12	TW3	05/01/19	Water	Volatile Organic Compounds (WDNR) by GC/MS		05/09/19 11:37	05/09/19 22:37		

Quality Control

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19E0242

Report Date: 05/13/2019
Matrix: Solid

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B9E0235
Blank (B9E0235-BLK1)
Prepared: 05/07/2019 15:50 Analyzed: 05/07/2019 16:20

Total Solids	< 0.100	0.100	%								1
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LCS (B9E0235-BS1)
Prepared: 05/07/2019 15:50 Analyzed: 05/07/2019 16:22

Total Solids	0.202	0.100	%	0.2006		101	86.3-105				1
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Duplicate (B9E0235-DUP1)
Source: 19E0242-05
Prepared: 05/07/2019 15:50 Analyzed: 05/07/2019 16:24

Total Solids	84.0	0.100	%		85.1			1.23	5		1
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Duplicate (B9E0235-DUP2)
Source: 19E0265-01
Prepared: 05/07/2019 15:50 Analyzed: 05/07/2019 16:26

Total Solids	85.5	0.100	%		84.1			1.65	5		1
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Quality Control

(Continued)

Client: United Engineering Consultants, Inc.

Report Date: 05/13/2019

Project: UEC Analysis
19006

Matrix: Solid

Work Order: 19E0242

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B9E0360

Blank (B9E0360-BLK1)

Prepared: 05/06/2019 11:59 Analyzed: 05/07/2019 05:40

1,1,1-Trichloroethane	< 200	200	ug/Kg wet								50
1,1,2,2-Tetrachloroethane	< 200	200	ug/Kg wet								50
1,1,2-Trichloroethane	< 200	200	ug/Kg wet								50
1,1-Dichloroethane	< 200	200	ug/Kg wet								50
1,1-Dichloroethene	< 200	200	ug/Kg wet								50
1,2,4-Trimethylbenzene	< 100	100	ug/Kg wet								50
1,2-Dibromo-3-chloropropane	< 200	200	ug/Kg wet								50
1,2-Dibromoethane	< 100	100	ug/Kg wet								50
1,2-Dichloroethane	< 50.0	50.0	ug/Kg wet								50
1,2-Dichloropropane	< 100	100	ug/Kg wet								50
1,3,5-Trimethylbenzene	< 100	100	ug/Kg wet								50
1-Butanol	< 3600	3600	ug/Kg wet								50
2-Butanone	< 700	700	ug/Kg wet								50
2-Hexanone	< 350	350	ug/Kg wet								50
4-Methyl-2-pentanone	< 350	350	ug/Kg wet								50
Acetone	< 1750	1750	ug/Kg wet								50
Acrylonitrile	< 400	400	ug/Kg wet								50
Benzene	< 100	100	ug/Kg wet								50
Bromodichloromethane	< 100	100	ug/Kg wet								50
Bromoform	< 100	100	ug/Kg wet								50
Carbon disulfide	< 100	100	ug/Kg wet								50
Carbon tetrachloride	< 100	100	ug/Kg wet								50
Chlorobenzene	< 100	100	ug/Kg wet								50
Chloroform	< 100	100	ug/Kg wet								50
cis-1,2-Dichloroethene	< 200	200	ug/Kg wet								50
Dibromochloromethane	< 200	200	ug/Kg wet								50
Ethylbenzene	< 100	100	ug/Kg wet								50
m,p-Xylene	< 400	400	ug/Kg wet								50
Methyl tert-butyl ether	< 100	100	ug/Kg wet								50
Methylene chloride	< 200	200	ug/Kg wet								50
o-Xylene	< 100	100	ug/Kg wet								50
Styrene	< 100	100	ug/Kg wet								50
Tetrachloroethene	< 100	100	ug/Kg wet								50
Toluene	< 100	100	ug/Kg wet								50
trans-1,2-Dichloroethene	< 200	200	ug/Kg wet								50
Trichloroethene	< 100	100	ug/Kg wet								50
Vinyl acetate	< 200	200	ug/Kg wet								50
Vinyl chloride	< 100	100	ug/Kg wet								50
Xylenes, Total	< 500	500	ug/Kg wet								50
1,2-Dichloroethene, Total	< 400	400	ug/Kg wet								50
Surrogate: Dibromofluoromethane	21.6		ug/Kg	20.00		108	78-137				50
Surrogate: 1,2-Dichloroethane-d4	23.8		ug/Kg	20.00		119	86-137				50

Quality Control

(Continued)

Client: United Engineering Consultants, Inc.

Report Date: 05/13/2019

Project: UEC Analysis
19006

Matrix: Solid

Work Order: 19E0242

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B9E0360 (Continued)
Blank (B9E0360-BLK1) (Continued)

Prepared: 05/06/2019 11:59 Analyzed: 05/07/2019 05:40

Surrogate: Fluorobenzene	19.8		ug/Kg	20.00		99	80-120				50
Surrogate: Toluene-d8	18.6		ug/Kg	20.00		93	73-112				50
Surrogate: 4-Bromofluorobenzene	10.2		ug/Kg	10.00		102	85-120				50
Surrogate: 1,2-Dichlorobenzene-d4	21.4		ug/Kg	20.00		107	85-128				50

LCS (B9E0360-BS1)

Prepared: 05/06/2019 11:59 Analyzed: 05/07/2019 03:59

1,1,1-Trichloroethane	891	200	ug/Kg wet	1000		89	55-145				50
1,1,1,2,2-Tetrachloroethane	1040	200	ug/Kg wet	1000		104	40-145				50
1,1,2-Trichloroethane	1050	200	ug/Kg wet	1000		105	50-140				50
1,1-Dichloroethane	982	200	ug/Kg wet	1000		98	65-135				50
1,1-Dichloroethene	964	200	ug/Kg wet	1000		96	55-150				50
1,2,4-Trimethylbenzene	862	100	ug/Kg wet	1000		86	55-145				50
1,2-Dibromo-3-chloropropane	1120	200	ug/Kg wet	1000		112	25-150				50
1,2-Dibromoethane	986	100	ug/Kg wet	1000		99	60-135				50
1,2-Dichloroethane	1040	50.0	ug/Kg wet	1000		104	60-145				50
1,2-Dichloropropane	984	100	ug/Kg wet	1000		98	65-125				50
1,3,5-Trimethylbenzene	828	100	ug/Kg wet	1000		83	55-145				50
1-Butanol	10600	3600	ug/Kg wet	10000		106	70-130				50
2-Butanone	4050	700	ug/Kg wet	3500		116	10-180				50
2-Hexanone	3680	350	ug/Kg wet	3500		105	30-160				50
4-Methyl-2-pentanone	3830	350	ug/Kg wet	3500		109	30-165				50
Acetone	5090	1750	ug/Kg wet	3500		145	10-180				50
Acrylonitrile	1030	400	ug/Kg wet	1000		103	70-130				50
Benzene	948	100	ug/Kg wet	1000		95	65-135				50
Bromodichloromethane	992	100	ug/Kg wet	1000		99	60-135				50
Bromoform	1000	100	ug/Kg wet	1000		100	45-150				50
Carbon disulfide	880	100	ug/Kg wet	1000		88	30-180				50
Carbon tetrachloride	866	100	ug/Kg wet	1000		87	55-145				50
Chlorobenzene	880	100	ug/Kg wet	1000		88	65-130				50
Chloroform	970	100	ug/Kg wet	1000		97	65-135				50
cis-1,2-Dichloroethene	926	200	ug/Kg wet	1000		93	55-135				50
Dibromochloromethane	972	200	ug/Kg wet	1000		97	55-140				50
Ethylbenzene	802	100	ug/Kg wet	1000		80	65-135				50
m,p-Xylene	1640	400	ug/Kg wet	2000		82	70-135				50
Methyl tert-butyl ether	1020	100	ug/Kg wet	1000		102	70-130				50
Methylene chloride	1050	200	ug/Kg wet	1000		105	40-155				50
o-Xylene	840	100	ug/Kg wet	1000		84	70-135				50
Styrene	860	100	ug/Kg wet	1000		86	65-135				50
Tetrachloroethene	1160	100	ug/Kg wet	1000		116	55-150				50
Toluene	874	100	ug/Kg wet	1000		87	60-135				50
trans-1,2-Dichloroethene	957	200	ug/Kg wet	1000		96	55-145				50
Trichloroethene	934	100	ug/Kg wet	1000		93	70-130				50

Quality Control

(Continued)

Client: United Engineering Consultants, Inc.

Report Date: 05/13/2019

Project: UEC Analysis
19006

Matrix: Solid

Work Order: 19E0242

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B9E0360 (Continued)
LCS (B9E0360-BS1) (Continued)

Prepared: 05/06/2019 11:59 Analyzed: 05/07/2019 03:59

Vinyl acetate	772	200	ug/Kg wet	1000		77	50-150				50
Vinyl chloride	988	100	ug/Kg wet	1000		99	45-140				50
Xylenes, Total	2480	500	ug/Kg wet	3000		82	70-135				50
1,2-Dichloroethene, Total	1880	400	ug/Kg wet	2000		94	55-135				50
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Surrogate: Dibromofluoromethane	21.8		ug/Kg	20.00		109	78-137				50
Surrogate: 1,2-Dichloroethane-d4	22.5		ug/Kg	20.00		112	86-137				50
Surrogate: Fluorobenzene	20.3		ug/Kg	20.00		101	80-120				50
Surrogate: Toluene-d8	20.0		ug/Kg	20.00		100	73-112				50
Surrogate: 4-Bromofluorobenzene	10.4		ug/Kg	10.00		104	85-120				50
Surrogate: 1,2-Dichlorobenzene-d4	22.5		ug/Kg	20.00		112	85-128				50

LCS Dup (B9E0360-BS1)

Prepared: 05/06/2019 11:59 Analyzed: 05/07/2019 04:32

1,1,1-Trichloroethane	886	200	ug/Kg wet	1000		89	55-145	0.6	20		50
1,1,2,2-Tetrachloroethane	1060	200	ug/Kg wet	1000		106	40-145	2	20		50
1,1,2-Trichloroethane	1050	200	ug/Kg wet	1000		105	50-140	0.7	20		50
1,1-Dichloroethane	962	200	ug/Kg wet	1000		96	65-135	2	20		50
1,1-Dichloroethene	954	200	ug/Kg wet	1000		95	55-150	1	20		50
1,2,4-Trimethylbenzene	846	100	ug/Kg wet	1000		85	55-145	2	20		50
1,2-Dibromo-3-chloropropane	1100	200	ug/Kg wet	1000		110	25-150	2	20		50
1,2-Dibromoethane	972	100	ug/Kg wet	1000		97	60-135	1	20		50
1,2-Dichloroethane	1030	50.0	ug/Kg wet	1000		103	60-145	2	20		50
1,2-Dichloropropane	934	100	ug/Kg wet	1000		93	65-125	5	20		50
1,3,5-Trimethylbenzene	850	100	ug/Kg wet	1000		85	55-145	3	20		50
1-Butanol	10700	3600	ug/Kg wet	10000		107	70-130	1	20		50
2-Butanone	3850	700	ug/Kg wet	3500		110	10-180	5	20		50
2-Hexanone	3780	350	ug/Kg wet	3500		108	30-160	3	20		50
4-Methyl-2-pentanone	3530	350	ug/Kg wet	3500		101	30-165	8	20		50
Acetone	5280	1750	ug/Kg wet	3500		151	10-180	4	20		50
Acrylonitrile	972	400	ug/Kg wet	1000		97	70-130	6	20		50
Benzene	932	100	ug/Kg wet	1000		93	65-135	2	20		50
Bromodichloromethane	955	100	ug/Kg wet	1000		96	60-135	4	20		50
Bromoform	1010	100	ug/Kg wet	1000		101	45-150	1	20		50
Carbon disulfide	875	100	ug/Kg wet	1000		88	30-180	0.6	20		50
Carbon tetrachloride	904	100	ug/Kg wet	1000		90	55-145	4	20		50
Chlorobenzene	903	100	ug/Kg wet	1000		90	65-130	3	20		50
Chloroform	950	100	ug/Kg wet	1000		95	65-135	2	20		50
cis-1,2-Dichloroethene	920	200	ug/Kg wet	1000		92	55-135	0.7	20		50
Dibromochloromethane	963	200	ug/Kg wet	1000		96	55-140	0.9	20		50
Ethylbenzene	822	100	ug/Kg wet	1000		82	65-135	2	20		50
m,p-Xylene	1640	400	ug/Kg wet	2000		82	70-135	0.03	20		50
Methyl tert-butyl ether	1000	100	ug/Kg wet	1000		100	70-130	2	20		50
Methylene chloride	1030	200	ug/Kg wet	1000		103	40-155	1	20		50

Quality Control

(Continued)

Client: United Engineering Consultants, Inc.

Report Date: 05/13/2019

Project: UEC Analysis
19006

Matrix: Solid

Work Order: 19E0242

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B9E0360 (Continued)

LCS Dup (B9E0360-BSD1) (Continued)

Prepared: 05/06/2019 11:59 Analyzed: 05/07/2019 04:32

o-Xylene	822	100	ug/Kg wet	1000		82	70-135	2	20		50
Styrene	817	100	ug/Kg wet	1000		82	65-135	5	20		50
Tetrachloroethene	1120	100	ug/Kg wet	1000		112	55-150	4	20		50
Toluene	880	100	ug/Kg wet	1000		88	60-135	0.7	20		50
trans-1,2-Dichloroethene	916	200	ug/Kg wet	1000		92	55-145	4	20		50
Trichloroethene	936	100	ug/Kg wet	1000		94	70-130	0.2	20		50
Vinyl acetate	736	200	ug/Kg wet	1000		74	50-150	5	20		50
Vinyl chloride	958	100	ug/Kg wet	1000		96	45-140	3	20		50
Xylenes, Total	2460	500	ug/Kg wet	3000		82	70-135	0.8	20		50
1,2-Dichloroethene, Total	1840	400	ug/Kg wet	2000		92	55-135	3	20		50
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Surrogate: Dibromofluoromethane	21.4		ug/Kg	20.00		107	78-137				50
Surrogate: 1,2-Dichloroethane-d4	22.9		ug/Kg	20.00		115	86-137				50
Surrogate: Fluorobenzene	20.3		ug/Kg	20.00		102	80-120				50
Surrogate: Toluene-d8	20.3		ug/Kg	20.00		102	73-112				50
Surrogate: 4-Bromofluorobenzene	10.3		ug/Kg	10.00		103	85-120				50
Surrogate: 1,2-Dichlorobenzene-d4	22.7		ug/Kg	20.00		114	85-128				50

Quality Control

(Continued)

Client: United Engineering Consultants, Inc.

Report Date: 05/13/2019

Project: UEC Analysis
19006

Matrix: Water

Work Order: 19E0242

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B9E0358 - SW5030
Blank (B9E0358-BLK1)

Prepared: 05/09/2019 13:37 Analyzed: 05/09/2019 17:01

1,1,1-Trichloroethane	< 0.349	2.00	ug/L								1
1,1,2,2-Tetrachloroethane	< 0.291	2.00	ug/L								1
1,1,2-Trichloroethane	< 0.264	2.00	ug/L								1
1,1-Dichloroethane	< 1.94	8.00	ug/L								1
1,1-Dichloroethene	< 1.02	4.00	ug/L								1
1,2,4-Trimethylbenzene	< 0.338	2.00	ug/L								1
1,2-Dibromo-3-chloropropane	< 0.488	2.00	ug/L								1
1,2-Dibromoethane	< 0.320	2.00	ug/L								1
1,2-Dichloroethane	< 0.274	2.00	ug/L								1
1,2-Dichloropropane	< 1.11	4.00	ug/L								1
1,3,5-Trimethylbenzene	< 0.310	2.00	ug/L								1
1-Butanol	< 6.69	90.0	ug/L								1
2-Butanone	< 1.38	8.00	ug/L								1
2-Hexanone	< 1.04	8.00	ug/L								1
4-Methyl-2-pentanone	< 0.660	28.0	ug/L								1
Acetone	< 3.75	28.0	ug/L								1
Acrolein	< 6.63	20.0	ug/L								1
Acrylonitrile	< 0.742	4.00	ug/L								1
Benzene	< 0.370	2.00	ug/L								1
Bromodichloromethane	< 0.310	2.00	ug/L								1
Bromoform	< 0.254	2.00	ug/L								1
Bromomethane	< 3.30	20.0	ug/L								1
Carbon disulfide	< 0.259	2.00	ug/L								1
Carbon tetrachloride	< 0.390	2.00	ug/L								1
Chlorobenzene	< 0.358	2.00	ug/L								1
Chloroethane	< 0.906	4.00	ug/L								1
Chloroform	< 0.397	2.00	ug/L								1
Chloromethane	< 2.23	8.00	ug/L								1
cis-1,2-Dichloroethene	< 0.421	2.00	ug/L								1
cis-1,3-Dichloropropene	< 0.278	2.00	ug/L								1
Dibromochloromethane	< 0.492	2.00	ug/L								1
Ethylbenzene	< 0.431	2.00	ug/L								1
m,p-Xylene	< 0.310	4.00	ug/L								1
Methyl tert-butyl ether	< 0.322	2.00	ug/L								1
Methylene chloride	< 0.358	2.00	ug/L								1
o-Xylene	< 0.349	2.00	ug/L								1
Styrene	< 0.534	4.00	ug/L								1
Tetrachloroethene	< 0.400	2.00	ug/L								1
Toluene	< 0.299	2.00	ug/L								1
trans-1,2-Dichloroethene	< 0.433	2.00	ug/L								1
trans-1,3-Dichloropropene	< 0.314	2.00	ug/L								1
Trichloroethene	< 0.439	2.00	ug/L								1

Quality Control

(Continued)

Client: United Engineering Consultants, Inc.

Report Date: 05/13/2019

Project: UEC Analysis
19006

Matrix: Water

Work Order: 19E0242

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B9E0358 - SW5030 (Continued)

Blank (B9E0358-BLK1) (Continued)

Prepared: 05/09/2019 13:37 Analyzed: 05/09/2019 17:01

Vinyl acetate	< 1.01	8.00	ug/L								1
Vinyl chloride	< 0.316	2.00	ug/L								1
Xylenes, Total	< 0.660	6.00	ug/L								1
1,3-Dichloropropene, Total	< 0.592	4.00	ug/L								1
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Surrogate: Dibromofluoromethane	23.0		ug/L	20.00		115	80-135				1
Surrogate: 1,2-Dichloroethane-d4	22.9		ug/L	20.00		114	86-132				1
Surrogate: Fluorobenzene	20.4		ug/L	20.00		102	80-116				1
Surrogate: Toluene-d8	18.3		ug/L	20.00		92	73-120				1
Surrogate: 4-Bromofluorobenzene	9.40		ug/L	10.00		94	85-114				1
Surrogate: 1,2-Dichlorobenzene-d4	23.4		ug/L	20.00		117	88-136				1

LCS (B9E0358-BS1)

Prepared: 05/09/2019 13:37 Analyzed: 05/09/2019 15:20

1,1,1-Trichloroethane	16.7	2.00	ug/L	20.00		83	74-131				1
1,1,2,2-Tetrachloroethane	22.8	2.00	ug/L	20.00		114	71-121				1
1,1,2-Trichloroethane	22.3	2.00	ug/L	20.00		112	80-119				1
1,1-Dichloroethane	17.5	8.00	ug/L	20.00		87	77-125				1
1,1-Dichloroethene	18.1	4.00	ug/L	20.00		91	71-131				1
1,2,4-Trimethylbenzene	18.8	2.00	ug/L	20.00		94	76-124				1
1,2-Dibromo-3-chloropropane	21.9	2.00	ug/L	20.00		110	62-128				1
1,2-Dibromoethane	21.6	2.00	ug/L	20.00		108	77-121				1
1,2-Dichloroethane	18.3	2.00	ug/L	20.00		91	73-128				1
1,2-Dichloropropane	23.4	4.00	ug/L	20.00		117	78-122				1
1,3,5-Trimethylbenzene	18.7	2.00	ug/L	20.00		94	75-124				1
1-Butanol	239	90.0	ug/L	200.0		119	70-130				1
2-Butanone	63.3	8.00	ug/L	70.00		90	56-143				1
2-Hexanone	78.4	8.00	ug/L	70.00		112	57-139				1
4-Methyl-2-pentanone	80.4	28.0	ug/L	70.00		115	67-130				1
Acetone	83.5	28.0	ug/L	70.00		119	39-160				1
Acrolein	53.1	20.0	ug/L	50.00		106	39-155				1
Acrylonitrile	21.2	4.00	ug/L	20.00		106	63-135				1
Benzene	21.8	2.00	ug/L	20.00		109	79-120				1
Bromodichloromethane	23.3	2.00	ug/L	20.00		116	79-125				1
Bromoform	23.6	2.00	ug/L	20.00		118	66-130				1
Bromomethane	17.1	20.0	ug/L	20.00		86	53-141			J	1
Carbon disulfide	18.0	2.00	ug/L	20.00		90	64-133				1
Carbon tetrachloride	22.0	2.00	ug/L	20.00		110	72-136				1
Chlorobenzene	20.1	2.00	ug/L	20.00		100	82-118				1
Chloroethane	20.2	4.00	ug/L	20.00		101	60-138				1
Chloroform	17.9	2.00	ug/L	20.00		89	79-124				1
Chloromethane	16.0	8.00	ug/L	20.00		80	50-139				1
cis-1,2-Dichloroethene	16.8	2.00	ug/L	20.00		84	78-123				1
cis-1,3-Dichloropropene	21.4	2.00	ug/L	20.00		107	75-124				1

Quality Control

(Continued)

Client: United Engineering Consultants, Inc.

Report Date: 05/13/2019

Project: UEC Analysis
19006

Matrix: Water

Work Order: 19E0242

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B9E0358 - SW5030 (Continued)
LCS (B9E0358-BS1) (Continued)

Prepared: 05/09/2019 13:37 Analyzed: 05/09/2019 15:20

Dibromochloromethane	23.1	2.00	ug/L	20.00		115	74-126				1
Ethylbenzene	17.6	2.00	ug/L	20.00		88	79-121				1
m,p-Xylene	36.7	4.00	ug/L	40.00		92	80-136				1
Methyl tert-butyl ether	17.4	2.00	ug/L	20.00		87	71-124				1
Methylene chloride	18.6	2.00	ug/L	20.00		93	74-124				1
o-Xylene	16.9	2.00	ug/L	20.00		85	78-122				1
Styrene	18.0	4.00	ug/L	20.00		90	78-123				1
Tetrachloroethene	21.3	2.00	ug/L	20.00		106	74-129				1
Toluene	19.6	2.00	ug/L	20.00		98	80-133				1
trans-1,2-Dichloroethene	17.2	2.00	ug/L	20.00		86	75-124				1
trans-1,3-Dichloropropene	22.4	2.00	ug/L	20.00		112	73-127				1
Trichloroethene	21.3	2.00	ug/L	20.00		106	79-123				1
Vinyl acetate	18.5	8.00	ug/L	20.00		92	54-146				1
Vinyl chloride	19.5	2.00	ug/L	20.00		98	58-137				1
Xylenes, Total	53.7	6.00	ug/L	60.00		89	79-121				1
1,3-Dichloropropene, Total	43.8	4.00	ug/L	40.00		110	77-123				1
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Surrogate: Dibromofluoromethane	17.5		ug/L	20.00		87	80-135				1
Surrogate: 1,2-Dichloroethane-d4	19.1		ug/L	20.00		96	86-132				1
Surrogate: Fluorobenzene	20.8		ug/L	20.00		104	80-116				1
Surrogate: Toluene-d8	20.6		ug/L	20.00		103	73-120				1
Surrogate: 4-Bromofluorobenzene	9.77		ug/L	10.00		98	85-114				1
Surrogate: 1,2-Dichlorobenzene-d4	22.3		ug/L	20.00		112	88-136				1

LCS Dup (B9E0358-BSD1)

Prepared: 05/09/2019 13:37 Analyzed: 05/09/2019 15:53

1,1,1-Trichloroethane	19.3	2.00	ug/L	20.00		96	74-131	15	20		1
1,1,2,2-Tetrachloroethane	21.4	2.00	ug/L	20.00		107	71-121	7	20		1
1,1,2-Trichloroethane	23.4	2.00	ug/L	20.00		117	80-119	5	20		1
1,1-Dichloroethane	19.2	8.00	ug/L	20.00		96	77-125	10	20		1
1,1-Dichloroethene	21.3	4.00	ug/L	20.00		107	71-131	16	20		1
1,2,4-Trimethylbenzene	17.2	2.00	ug/L	20.00		86	76-124	9	20		1
1,2-Dibromo-3-chloropropane	21.6	2.00	ug/L	20.00		108	62-128	1	20		1
1,2-Dibromoethane	20.7	2.00	ug/L	20.00		104	77-121	4	20		1
1,2-Dichloroethane	19.9	2.00	ug/L	20.00		100	73-128	9	20		1
1,2-Dichloropropane	23.2	4.00	ug/L	20.00		116	78-122	0.9	20		1
1,3,5-Trimethylbenzene	17.3	2.00	ug/L	20.00		86	75-124	8	20		1
1-Butanol	260	90.0	ug/L	200.0		130	70-130	9	20		1
2-Butanone	69.6	8.00	ug/L	70.00		99	56-143	10	20		1
2-Hexanone	81.8	8.00	ug/L	70.00		117	57-139	4	20		1
4-Methyl-2-pentanone	81.2	28.0	ug/L	70.00		116	67-130	1	20		1
Acetone	83.9	28.0	ug/L	70.00		120	39-160	0.5	20		1
Acrolein	60.4	20.0	ug/L	50.00		121	39-155	13	20		1
Acrylonitrile	20.6	4.00	ug/L	20.00		103	63-135	3	20		1

Quality Control

(Continued)

Client: United Engineering Consultants, Inc.

Report Date: 05/13/2019

Project: UEC Analysis
19006

Matrix: Water

Work Order: 19E0242

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B9E0358 - SW5030 (Continued)
LCS Dup (B9E0358-BSD1) (Continued)

Prepared: 05/09/2019 13:37 Analyzed: 05/09/2019 15:53

Benzene	22.5	2.00	ug/L	20.00		112	79-120	3	20		1
Bromodichloromethane	23.8	2.00	ug/L	20.00		119	79-125	2	20		1
Bromoform	24.2	2.00	ug/L	20.00		121	66-130	3	20		1
Bromomethane	17.9	20.0	ug/L	20.00		90	53-141	5	20	J	1
Carbon disulfide	20.1	2.00	ug/L	20.00		100	64-133	11	20		1
Carbon tetrachloride	23.0	2.00	ug/L	20.00		115	72-136	5	20		1
Chlorobenzene	20.5	2.00	ug/L	20.00		103	82-118	2	20		1
Chloroethane	21.9	4.00	ug/L	20.00		110	60-138	8	20		1
Chloroform	19.1	2.00	ug/L	20.00		95	79-124	6	20		1
Chloromethane	15.6	8.00	ug/L	20.00		78	50-139	2	20		1
cis-1,2-Dichloroethene	18.3	2.00	ug/L	20.00		91	78-123	9	20		1
cis-1,3-Dichloropropene	21.9	2.00	ug/L	20.00		109	75-124	2	20		1
Dibromochloromethane	23.5	2.00	ug/L	20.00		118	74-126	2	20		1
Ethylbenzene	18.4	2.00	ug/L	20.00		92	79-121	4	20		1
m,p-Xylene	38.6	4.00	ug/L	40.00		97	80-136	5	20		1
Methyl tert-butyl ether	19.4	2.00	ug/L	20.00		97	71-124	11	20		1
Methylene chloride	20.1	2.00	ug/L	20.00		100	74-124	7	20		1
o-Xylene	16.2	2.00	ug/L	20.00		81	78-122	4	20		1
Styrene	18.7	4.00	ug/L	20.00		94	78-123	4	20		1
Tetrachloroethene	23.7	2.00	ug/L	20.00		119	74-129	11	20		1
Toluene	20.5	2.00	ug/L	20.00		102	80-133	5	20		1
trans-1,2-Dichloroethene	18.7	2.00	ug/L	20.00		94	75-124	8	20		1
trans-1,3-Dichloropropene	22.5	2.00	ug/L	20.00		113	73-127	0.7	20		1
Trichloroethene	22.4	2.00	ug/L	20.00		112	79-123	5	20		1
Vinyl acetate	20.0	8.00	ug/L	20.00		100	54-146	8	20		1
Vinyl chloride	22.4	2.00	ug/L	20.00		112	58-137	14	20		1
Xylenes, Total	54.8	6.00	ug/L	60.00		91	79-121	2	20		1
1,3-Dichloropropene, Total	44.4	4.00	ug/L	40.00		111	77-123	1	20		1
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Surrogate: Dibromofluoromethane	18.6		ug/L	20.00		93	80-135				1
Surrogate: 1,2-Dichloroethane-d4	19.8		ug/L	20.00		99	86-132				1
Surrogate: Fluorobenzene	20.5		ug/L	20.00		102	80-116				1
Surrogate: Toluene-d8	20.4		ug/L	20.00		102	73-120				1
Surrogate: 4-Bromofluorobenzene	8.72		ug/L	10.00		87	85-114				1
Surrogate: 1,2-Dichlorobenzene-d4	20.2		ug/L	20.00		101	88-136				1

Certified Analyses included in this Report

Analyte	CAS #	Certifications
SM2540G in Solid		
Total Solids	Moist	WDNR,DoD
SW-846 8260B/WDNR: PUBL-FW-140 in Solid		
1,1,1-Trichloroethane	71-55-6	WDNR
1,1,2,2-Tetrachloroethane	79-34-5	WDNR
1,1,2-Trichloroethane	79-00-5	WDNR
1,1-Dichloroethane	75-34-3	WDNR
1,1-Dichloroethene	75-35-4	WDNR
1,2,4-Trimethylbenzene	95-63-6	WDNR
1,2-Dibromo-3-chloropropane	96-12-8	WDNR
1,2-Dibromoethane	106-93-4	WDNR
1,2-Dichloroethane	107-06-2	WDNR
1,2-Dichloropropane	78-87-5	WDNR
1,3,5-Trimethylbenzene	108-67-8	WDNR
1-Butanol	71-36-3	WDNR
2-Butanone	78-93-3	WDNR
2-Hexanone	591-78-6	WDNR
4-Methyl-2-pentanone	108-10-1	WDNR
Acetone	67-64-1	WDNR
Acrylonitrile	107-13-1	WDNR
Benzene	71-43-2	WDNR
Bromodichloromethane	75-27-4	WDNR
Bromoform	75-25-2	WDNR
Carbon disulfide	75-15-0	WDNR
Carbon tetrachloride	56-23-5	WDNR
Chlorobenzene	108-90-7	WDNR
Chloroform	67-66-3	WDNR
cis-1,2-Dichloroethene	156-59-2	WDNR
Dibromochloromethane	124-48-1	WDNR
Ethylbenzene	100-41-4	WDNR
m,p-Xylene	179601-23-1	WDNR
Methyl tert-butyl ether	1634-04-4	WDNR
Methylene chloride	75-09-2	WDNR
o-Xylene	95-47-6	WDNR
Styrene	100-42-5	WDNR
Tetrachloroethene	127-18-4	WDNR
Toluene	108-88-3	WDNR
trans-1,2-Dichloroethene	156-60-5	WDNR
Trichloroethene	79-01-6	WDNR
Vinyl acetate	108-05-4	WDNR
Vinyl chloride	75-01-4	WDNR
Xylenes, Total	1330-20-7	WDNR
1,2-Dichloroethene, Total	540-59-0	WDNR

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
<i>SW-846 8260B/WDNR: PUBL-FW-140 in Water</i>		
1,1,1-Trichloroethane	71-55-6	WDNR
1,1,2,2-Tetrachloroethane	79-34-5	WDNR
1,1,2-Trichloroethane	79-00-5	WDNR
1,1-Dichloroethane	75-34-3	WDNR
1,1-Dichloroethene	75-35-4	WDNR
1,2,4-Trimethylbenzene	95-63-6	WDNR
1,2-Dibromo-3-chloropropane	96-12-8	WDNR
1,2-Dibromoethane	106-93-4	WDNR
1,2-Dichloroethane	107-06-2	WDNR
1,2-Dichloropropane	78-87-5	WDNR
1,3,5-Trimethylbenzene	108-67-8	WDNR
1-Butanol	71-36-3	WDNR
2-Butanone	78-93-3	WDNR
2-Hexanone	591-78-6	WDNR
4-Methyl-2-pentanone	108-10-1	WDNR
Acetone	67-64-1	WDNR
Acrolein	107-02-8	WDNR
Acrylonitrile	107-13-1	WDNR
Benzene	71-43-2	WDNR
Bromodichloromethane	75-27-4	WDNR
Bromoform	75-25-2	WDNR
Bromomethane	74-83-9	WDNR
Carbon disulfide	75-15-0	WDNR
Carbon tetrachloride	56-23-5	WDNR
Chlorobenzene	108-90-7	WDNR
Chloroethane	75-00-3	WDNR
Chloroform	67-66-3	WDNR
Chloromethane	74-87-3	WDNR
cis-1,2-Dichloroethene	156-59-2	WDNR
cis-1,3-Dichloropropene	10061-01-5	WDNR
Dibromochloromethane	124-48-1	WDNR
Ethylbenzene	100-41-4	WDNR
m,p-Xylene	179601-23-1	WDNR
Methyl tert-butyl ether	1634-04-4	WDNR
Methylene chloride	75-09-2	WDNR
o-Xylene	95-47-6	WDNR
Styrene	100-42-5	WDNR
Tetrachloroethene	127-18-4	WDNR
Toluene	108-88-3	WDNR
trans-1,2-Dichloroethene	156-60-5	WDNR
trans-1,3-Dichloropropene	10061-02-6	WDNR
Trichloroethene	79-01-6	WDNR
Vinyl acetate	108-05-4	WDNR

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
<i>SW-846 8260B/WDNR: PUBL-FW-140 in Water (Continued)</i>		
Vinyl chloride	75-01-4	WDNR
Xylenes, Total	1330-20-7	WDNR
1,3-Dichloropropene, Total	542-75-6	WDNR

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	UST-105	04/30/2020
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L14-56	04/30/2020
DoD	Department of Defense, Accredited by PJLA	L14-55	04/30/2020
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	003674	07/27/2019
ISO	ISO/IEC 17025, Accredited by PJLA	L14-56	04/30/2020
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2019

Qualifiers and Definitions

Item	Description
J	The reported result is an estimated value.
%Rec	Percent Recovery
MDL	In the state of Wisconsin MDL is equivalent to LOD; in all other applications MDL is equivalent to MDL. In the state of Wisconsin the Reporting Limit is equivalent to LOQ.



ENVIRONMENTAL MONITORING TECHNOLOG

8100 North Austin Avenue
Morton Grove, Illinois 600



19E0242
PM: Jacoby Jackson
United Engineering Consultants, Inc.
UEC Analysis

Chain of Custody Record

47-967-6666
AX: 847-967-6735
www.emt.com

TURNAROUND TIME:
 RUSH
 _____ day turnaround
 ROUTINE

Due Date: _____ COC #: **215200**

Company: United Engineering Consultants, Inc.
 Address: 16237 W Ryerson Rd
New Berlin, WI 53121

Phone #: (262) 785-1447 Fax #: ()
 P.O. #: _____ Proj. #: _____

Client Contact: T. Anderson
 Project ID / Location: 19006

Sample Type:
 1. Waste Water 4. Sludge 7. Groundwater (filtered)
 2. Drinking Water 5. Oil 8. Other
 3. Soil 6. Groundwater

Container Type:
 P - Plastic V - VOC Vial O - Other
 G - Glass B - Tedlar Bag

Preservative:
 1. None 4. NaOH 7. Zn Ace
 2. H2SO4 5. HCl 8. Other
 3. HNO3 6. MeOH

Analyses

VOC

EMT
USE
ONLY

EMT
WORKORDER
#19E0242

Sample I.D.	Sample Type	Container			Sampling					Preservation		Field	Lab	Notes
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab			
GP-1 2'-3'	3	4oz/4oz	G	1/1	KH	5/1/19	12:30	-	-	1/6				01AB
GP-1 5'-6'							12:45	-	-					02AB
GP-1 13'-14'							1:00	-	-					03AB
GP-2 3'-4'							1:30	-	-					04AB
GP-2 7'-8'							1:45	-	-					05AB
GP-2 15'-16'							2:00	-	-					06AB
GP-3 3'-4'							2:30	-	-					07AB
GP-3 6'-7'							2:45	-	-					08AB
GP-3 13'-14'							3:00	-	-					09AB

Relinquished By: <u>[Signature]</u> Date: <u>5-3-19</u> Time: <u>1240</u>	Received By: <u>[Signature]</u> Date: <u>5-3-19</u> Time: <u>1240</u>	EMT USE ONLY Client Code:	<input checked="" type="checkbox"/> SAMPLE RECEIVED ON ICE <input type="checkbox"/> TEMPERATURE <u>1.0</u> EMT SAMPLE RETURN POLICY ON BACK
Relinquished By: <u>[Signature]</u> Date: <u>5-3-19</u> Time: <u>1645</u>	Received By: _____ Date: _____ Time: _____	EMT Project I.D.	
Relinquished By: _____ Date: _____ Time: _____	Received For Lab By: <u>[Signature]</u> Date: <u>5-3-19</u> Time: <u>16:45</u>	Jar Lot No.	

SPECIAL INSTRUCTIONS:

Sample Receipt Checklist

Work Order: 19E0242

Printed: 5/3/2019 5:15:03PM

Client: United Engineering Consultants, Inc.	Date Due: 05/10/19 17:00 (5 day TAT)
Project: UEC Analysis	

Received By:	Stephanie Canchola	Date Received:	05/03/19 16:45
Logged In By:	Stephanie Canchola	Date Logged In:	05/03/19 17:14

Samples Received at:	1.6°C
How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Cont/Cooler Intact	Yes
COC Present/Complete	Yes
COC/Labels Agree	Yes
Proper Cont/Preservation checked	Yes
Sufficient Sample Volume	Yes
Samples Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	No
VOA Water Vials/Zero Headspace	NA
PM or Client Contacted	No

COMMENTS

SC

5-3-19



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203

Chain of Custody Record

847-967-6666
FAX: 847-967-6735
www.emt.com

TURNAROUND TIME:
 RUSH
 ___ day turnaround
 ROUTINE

Due Date: ___ - ___ - ___ COC #: **157953**

Company: <u>VEL, INC.</u>				Sample Type:				Analyses										
Address: <u>16237 W. RYERSON ROAD NEW BERLIN, WI 53151</u>				1. Waste Water 4. Sludge 7. Groundwater (filtered)				EMT USE ONLY EMT WORKORDER #										
Phone #: <u>(262) 785-1447</u> Fax #: <u>(262) 206-4400</u>				2. Drinking Water 5. Oil 8. Other														
P.O. #: _____ Proj. #: _____				3. Soil 6. Groundwater														
Client Contact: <u>T. ANDERSON</u>				Container Type:														
Project ID / Location: <u>19006</u>				P - Plastic V - VOC Vial O - Other G - Glass B - Tedlar Bag														
				Preservative:														
				1. None 4. NaOH 7. Zn Ace														
				2. H2SO4 5. HCl 8. Other														
				3. HNO3 6. MeOH														
Sample I.D.	Sample Type	Container			Sampling					Preservation		VOC						
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab							
TW-1	G	40ML	G	3	KH	5/1/19	13:15	-	-	G								
TW-2	G	↓	↓	↓	KH	↓	14:15	-	-	↓								
TW-3	G	↓	↓	↓	KH	↓	15:15	-	-	↓								
Relinquished By: <i>[Signature]</i>		Date: <u>05-3-19</u>		Received By:		Date: - -		EMT USE ONLY		<input type="checkbox"/> SAMPLE RECEIVED ON ICE <input type="checkbox"/> TEMPERATURE (Must be recorded if sampling was greater than 6 hrs. prior to sample receipt) EMT SAMPLE RETURN POLICY ON BACK								
		Time: <u>12:40</u>				Time: :		Client Code:										
Relinquished By:		Date: - -		Received By:		Date: - -		EMT Project I.D.										
		Time: :				Time: :												
Relinquished By:		Date: - -		Received For Lab By:		Date: - -		Jar Lot No.										
		Time: :				Time: :												

SPECIAL INSTRUCTIONS:

EMT-FORM-GEN-028

May 09, 2019

Mr. Timothy Anderson
United Engineering
16237 W. Ryerson Rd.
New Berlin, WI 53151

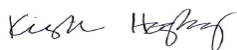
RE: Project: 19006
Pace Project No.: 10473345

Dear Mr. Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on May 03, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 19006
Pace Project No.: 10473345

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 19006
Pace Project No.: 10473345

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10473345001	VP-1	Air	05/01/19 11:49	05/03/19 13:00
10473345002	VP-2	Air	05/01/19 11:55	05/03/19 13:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 19006
Pace Project No.: 10473345

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10473345001	VP-1	TO-15	AFV	22	PASI-M
10473345002	VP-2	TO-15	AFV	22	PASI-M

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19006
Pace Project No.: 10473345

Sample: VP-1 **Lab ID: 10473345001** Collected: 05/01/19 11:49 Received: 05/03/19 13:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Carbon tetrachloride	<0.79	ug/m3	2.3	0.79	1.83		05/06/19 19:47	56-23-5	
Chloroethane	<0.48	ug/m3	0.98	0.48	1.83		05/06/19 19:47	75-00-3	
Chloroform	6.8	ug/m3	0.91	0.36	1.83		05/06/19 19:47	67-66-3	
Chloromethane	<0.29	ug/m3	0.77	0.29	1.83		05/06/19 19:47	74-87-3	
1,2-Dichlorobenzene	<0.91	ug/m3	2.2	0.91	1.83		05/06/19 19:47	95-50-1	
1,4-Dichlorobenzene	<1.8	ug/m3	5.6	1.8	1.83		05/06/19 19:47	106-46-7	
Dichlorodifluoromethane	2.3	ug/m3	1.8	0.54	1.83		05/06/19 19:47	75-71-8	
1,1-Dichloroethane	<0.41	ug/m3	1.5	0.41	1.83		05/06/19 19:47	75-34-3	
1,2-Dichloroethane	<0.27	ug/m3	0.75	0.27	1.83		05/06/19 19:47	107-06-2	
1,1-Dichloroethene	<0.50	ug/m3	1.5	0.50	1.83		05/06/19 19:47	75-35-4	
cis-1,2-Dichloroethene	<0.40	ug/m3	1.5	0.40	1.83		05/06/19 19:47	156-59-2	
trans-1,2-Dichloroethene	<0.52	ug/m3	1.5	0.52	1.83		05/06/19 19:47	156-60-5	
Hexachloro-1,3-butadiene	<3.6	ug/m3	9.9	3.6	1.83		05/06/19 19:47	87-68-3	
Methylene Chloride	19.4	ug/m3	6.5	1.7	1.83		05/06/19 19:47	75-09-2	
1,1,2,2-Tetrachloroethane	<0.53	ug/m3	1.3	0.53	1.83		05/06/19 19:47	79-34-5	
Tetrachloroethene	18500	ug/m3	605	276	878.4		05/07/19 13:12	127-18-4	
1,2,4-Trichlorobenzene	<6.8	ug/m3	13.8	6.8	1.83		05/06/19 19:47	120-82-1	
1,1,1-Trichloroethane	4.1	ug/m3	2.0	0.57	1.83		05/06/19 19:47	71-55-6	
1,1,2-Trichloroethane	<0.46	ug/m3	1.0	0.46	1.83		05/06/19 19:47	79-00-5	
Trichloroethene	18.2	ug/m3	1.0	0.47	1.83		05/06/19 19:47	79-01-6	
Trichlorofluoromethane	<0.67	ug/m3	2.1	0.67	1.83		05/06/19 19:47	75-69-4	
Vinyl chloride	<0.23	ug/m3	0.48	0.23	1.83		05/06/19 19:47	75-01-4	

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ANALYTICAL RESULTS

Project: 19006
Pace Project No.: 10473345

Sample: **VP-2** Lab ID: **10473345002** Collected: 05/01/19 11:55 Received: 05/03/19 13:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Carbon tetrachloride	<0.79	ug/m3	2.3	0.79	1.83		05/06/19 20:18	56-23-5	
Chloroethane	<0.48	ug/m3	0.98	0.48	1.83		05/06/19 20:18	75-00-3	
Chloroform	<0.36	ug/m3	0.91	0.36	1.83		05/06/19 20:18	67-66-3	
Chloromethane	<0.29	ug/m3	0.77	0.29	1.83		05/06/19 20:18	74-87-3	
1,2-Dichlorobenzene	<0.91	ug/m3	2.2	0.91	1.83		05/06/19 20:18	95-50-1	
1,4-Dichlorobenzene	<1.8	ug/m3	5.6	1.8	1.83		05/06/19 20:18	106-46-7	
Dichlorodifluoromethane	2.3	ug/m3	1.8	0.54	1.83		05/06/19 20:18	75-71-8	
1,1-Dichloroethane	<0.41	ug/m3	1.5	0.41	1.83		05/06/19 20:18	75-34-3	
1,2-Dichloroethane	<0.27	ug/m3	0.75	0.27	1.83		05/06/19 20:18	107-06-2	
1,1-Dichloroethene	<0.50	ug/m3	1.5	0.50	1.83		05/06/19 20:18	75-35-4	
cis-1,2-Dichloroethene	<0.40	ug/m3	1.5	0.40	1.83		05/06/19 20:18	156-59-2	
trans-1,2-Dichloroethene	<0.52	ug/m3	1.5	0.52	1.83		05/06/19 20:18	156-60-5	
Hexachloro-1,3-butadiene	<3.6	ug/m3	9.9	3.6	1.83		05/06/19 20:18	87-68-3	
Methylene Chloride	6.3J	ug/m3	6.5	1.7	1.83		05/06/19 20:18	75-09-2	
1,1,2,2-Tetrachloroethane	<0.53	ug/m3	1.3	0.53	1.83		05/06/19 20:18	79-34-5	
Tetrachloroethene	1510	ug/m3	37.8	17.2	54.9		05/07/19 13:41	127-18-4	
1,2,4-Trichlorobenzene	<6.8	ug/m3	13.8	6.8	1.83		05/06/19 20:18	120-82-1	
1,1,1-Trichloroethane	11.9	ug/m3	2.0	0.57	1.83		05/06/19 20:18	71-55-6	
1,1,2-Trichloroethane	<0.46	ug/m3	1.0	0.46	1.83		05/06/19 20:18	79-00-5	
Trichloroethene	2.7	ug/m3	1.0	0.47	1.83		05/06/19 20:18	79-01-6	
Trichlorofluoromethane	<0.67	ug/m3	2.1	0.67	1.83		05/06/19 20:18	75-69-4	
Vinyl chloride	<0.23	ug/m3	0.48	0.23	1.83		05/06/19 20:18	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 19006
Pace Project No.: 10473345

QC Batch: 604034 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10473345001, 10473345002

METHOD BLANK: 3265808 Matrix: Air
Associated Lab Samples: 10473345001, 10473345002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	05/06/19 15:04	
1,1,2,2-Tetrachloroethane	ug/m3	<0.29	0.70	05/06/19 15:04	
1,1,2-Trichloroethane	ug/m3	<0.25	0.56	05/06/19 15:04	
1,1-Dichloroethane	ug/m3	<0.22	0.82	05/06/19 15:04	
1,1-Dichloroethene	ug/m3	<0.27	0.81	05/06/19 15:04	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	05/06/19 15:04	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	05/06/19 15:04	
1,2-Dichloroethane	ug/m3	<0.15	0.41	05/06/19 15:04	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	05/06/19 15:04	
Carbon tetrachloride	ug/m3	<0.43	1.3	05/06/19 15:04	
Chloroethane	ug/m3	<0.26	0.54	05/06/19 15:04	
Chloroform	ug/m3	<0.20	0.50	05/06/19 15:04	
Chloromethane	ug/m3	<0.16	0.42	05/06/19 15:04	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	05/06/19 15:04	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	05/06/19 15:04	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	05/06/19 15:04	
Methylene Chloride	ug/m3	<0.94	3.5	05/06/19 15:04	
Tetrachloroethane	ug/m3	<0.31	0.69	05/06/19 15:04	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	05/06/19 15:04	
Trichloroethene	ug/m3	<0.26	0.55	05/06/19 15:04	
Trichlorofluoromethane	ug/m3	<0.37	1.1	05/06/19 15:04	
Vinyl chloride	ug/m3	<0.13	0.26	05/06/19 15:04	

LABORATORY CONTROL SAMPLE: 3265809

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	57.9	104	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	80.9	116	70-132	
1,1,2-Trichloroethane	ug/m3	55.5	62.4	112	70-130	
1,1-Dichloroethane	ug/m3	41.1	42.5	103	70-130	
1,1-Dichloroethene	ug/m3	40.3	44.0	109	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	73.4	97	56-130	
1,2-Dichlorobenzene	ug/m3	61.1	73.2	120	70-132	
1,2-Dichloroethane	ug/m3	41.1	42.6	104	70-130	
1,4-Dichlorobenzene	ug/m3	61.1	74.6	122	70-134	
Carbon tetrachloride	ug/m3	64	65.8	103	66-131	
Chloroethane	ug/m3	26.8	31.0	115	70-130	
Chloroform	ug/m3	49.6	50.9	103	70-130	
Chloromethane	ug/m3	21	21.4	102	66-130	
cis-1,2-Dichloroethene	ug/m3	40.3	41.3	102	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 19006
Pace Project No.: 10473345

LABORATORY CONTROL SAMPLE: 3265809

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dichlorodifluoromethane	ug/m3	50.3	49.9	99	70-130	
Hexachloro-1,3-butadiene	ug/m3	108	119	110	66-137	
Methylene Chloride	ug/m3	177	167	94	65-130	
Tetrachloroethene	ug/m3	68.9	73.2	106	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	41.8	104	70-130	
Trichloroethene	ug/m3	54.6	56.1	103	70-130	
Trichlorofluoromethane	ug/m3	57.1	59.7	104	65-130	
Vinyl chloride	ug/m3	26	26.5	102	70-130	

SAMPLE DUPLICATE: 3266482

Parameter	Units	20102874001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.40			25
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.38			25
1,1,2-Trichloroethane	ug/m3	ND	<0.32			25
1,1-Dichloroethane	ug/m3	ND	<0.29			25
1,1-Dichloroethene	ug/m3	ND	<0.36			25
1,2,4-Trichlorobenzene	ug/m3	ND	<4.8			25
1,2-Dichlorobenzene	ug/m3	ND	<0.65			25
1,2-Dichloroethane	ug/m3	ND	<0.20			25
1,4-Dichlorobenzene	ug/m3	ND	<1.3			25
Carbon tetrachloride	ug/m3	ND	<0.56			25
Chloroethane	ug/m3	ND	<0.34			25
Chloroform	ug/m3	ND	<0.25			25
Chloromethane	ug/m3	0.99	0.88	12		25
cis-1,2-Dichloroethene	ug/m3	ND	<0.28			25
Dichlorodifluoromethane	ug/m3	2.1	2.1	1		25
Hexachloro-1,3-butadiene	ug/m3	ND	<2.6			25
Methylene Chloride	ug/m3	ND	2.3J			25
Tetrachloroethene	ug/m3	ND	<0.41			25
trans-1,2-Dichloroethene	ug/m3	ND	<0.37			25
Trichloroethene	ug/m3	ND	<0.33			25
Trichlorofluoromethane	ug/m3	ND	<0.48			25
Vinyl chloride	ug/m3	ND	<0.16			25

SAMPLE DUPLICATE: 3266483

Parameter	Units	20102874002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.40			25
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.38			25
1,1,2-Trichloroethane	ug/m3	ND	<0.32			25
1,1-Dichloroethane	ug/m3	ND	<0.29			25
1,1-Dichloroethene	ug/m3	ND	<0.36			25
1,2,4-Trichlorobenzene	ug/m3	ND	<4.8			25

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QUALITY CONTROL DATA

Project: 19006
Pace Project No.: 10473345

SAMPLE DUPLICATE: 3266483

Parameter	Units	20102874002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichlorobenzene	ug/m3	ND	<0.65		25	
1,2-Dichloroethane	ug/m3	ND	<0.20		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.3		25	
Carbon tetrachloride	ug/m3	ND	<0.56		25	
Chloroethane	ug/m3	ND	<0.34		25	
Chloroform	ug/m3	ND	<0.25		25	
Chloromethane	ug/m3	0.91	0.85	7	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.28		25	
Dichlorodifluoromethane	ug/m3	2.1	2.0	2	25	
Hexachloro-1,3-butadiene	ug/m3	ND	<2.6		25	
Methylene Chloride	ug/m3	ND	2.4J		25	
Tetrachloroethene	ug/m3	ND	<0.41		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.37		25	
Trichloroethene	ug/m3	ND	<0.33		25	
Trichlorofluoromethane	ug/m3	ND	<0.48		25	
Vinyl chloride	ug/m3	ND	<0.16		25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 19006
Pace Project No.: 10473345

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 19006
Pace Project No.: 10473345

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10473345001	VP-1	TO-15	604034		
10473345002	VP-2	TO-15	604034		

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AIR: CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOCUMENT. All refer

WO#: 10473345



35815

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: <u>United Engineering Consultants, Inc</u>		Report To: <u>Tim Anderson</u>		Attention: <u>Same</u>	
Address: <u>16237 W. Ryerson Rd</u> <u>New Berlin WI 53151</u>		Copy To:		Company Name:	
Email To: <u>tguec@sbcglobal.net</u>		Purchase Order No.:		Address:	
Phone: <u>(262) 785-1447</u> Fax: <u>(262) 706-4400</u>		Project Name: <u>19006</u>		Pace Quote Reference:	
Requested Due Date/TAT:		Project Number:		Pace Project Manager/Sales Rep.	
				Pace Profile #: <u>22083</u>	

Program

UST Superfund Emissions Clean Air Act

Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State: WI

Reporting Units
 ug/m³ mg/m³
 PPBV PPMV
 Other

Report Level II. III. IV. Other

ITEM #	Section D Required Client Information		MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number		Flow Control Number	Method:	Pace Lab ID					
	AIR SAMPLE ID				COMPOSITE START		COMPOSITE - END/GRAB				PM10	3C - Filter Case (%)				TO-3 BTEX	TO-3M (Methane)	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated
	Sample IDs MUST BE UNIQUE				DATE	TIME	DATE	TIME												
1	VP-1		6LL	/	5/1/19	11:19	5/1	11:49	30	10					001					
2	VP-2		6LL	/	5/1/19	11:25	5/1	11:55	28	8	26	58			002					
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
UEC Inc	5/1/19	16:16	<i>[Signature]</i> Pace	05/03/19	1300	-	Y	Y	Y	Y
							Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kyle Fleming

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed (MM/DD/YY): 5/1/19

Temp in °C

Received on Ice

Custody Sealed Cooler

Samples Intact

ORIGINAL



Document Name:
Air Sample Condition Upon Receipt

Document No.:
F-MN-A-106-rev.18

Document Revised: 31Jan2019
Page 1 of 1

Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: United Engineering Project #: _____

WO#: 10473345

PM: KNH Due Date: 05/10/19
CLIENT: United Eng

Courier: Fed Ex UPS USPS Client
 Pace SpeedDee Commercial See Exception

Tracking Number: 454599117568

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): _____ Corrected Temp (°C): _____ Thermometer Used: G87A9170600254 G87A9155100842

Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: 05/03/19 CR

Type of Ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans Y <input checked="" type="checkbox"/> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Do cans need to be pressurized (3C and ASTM 1946 DO NOT PRESSURIZE)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	13.

Samples Received: _____ Pressure Gauge # 10AIR34 10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
1	0053	1828	-8.0	+5.0					
2	2658	0797	"	"					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kirsten Hopper Date: 5/3/2019

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Analytical Report

Timothy J. Anderson
United Engineering Consultants, Inc.
16237 W. Ryerson Road
New Berlin, WI 53151

January 07, 2020

Work Order: 19L0752

RE: UEC Analysis
19006

Dear Timothy J. Anderson:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

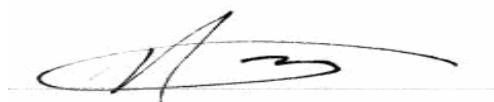
Sincerely,



Jacoby Jackson
Project Manager
847.967.6666
jjackson@emt.com

Approved for release: 1/6/2020 4:52:38PM

Approved by,



Nathan Fey
Laboratory Operations Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Wisconsin Dept of Natural Resources, Cert No. 999888890

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Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GP-4 3'-4'	19L0752-01	Soil	12/19/19 08:00	12/23/19 11:00
GP-4 10'-11'	19L0752-02	Soil	12/19/19 08:15	12/23/19 11:00
GP-4 14'-15'	19L0752-03	Soil	12/19/19 08:30	12/23/19 11:00
GP-5 3'-4'	19L0752-04	Soil	12/19/19 09:00	12/23/19 11:00
GP-5 11'-12'	19L0752-05	Soil	12/19/19 09:15	12/23/19 11:00
GP-5 14'-15'	19L0752-06	Soil	12/19/19 09:30	12/23/19 11:00
GP-6 2'-3'	19L0752-07	Soil	12/19/19 10:00	12/23/19 11:00
GP-6 14'-15'	19L0752-08	Soil	12/19/19 10:15	12/23/19 11:00
GP-7 3'-4'	19L0752-09	Soil	12/19/19 11:00	12/23/19 11:00
GP-7 10'-11'	19L0752-10	Soil	12/19/19 11:15	12/23/19 11:00
GP-7 14'-15'	19L0752-11	Soil	12/19/19 11:30	12/23/19 11:00
GP-8 3'-4'	19L0752-12	Soil	12/19/19 12:00	12/23/19 11:00
GP-8 14'-15'	19L0752-13	Soil	12/19/19 12:15	12/23/19 11:00

Case Narrative

Client: United Engineering Consultants, Inc.

Date: 01/07/2020

Project: UEC Analysis
19006

Work Order: 19L0752

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 19L0752

The samples were received on 12/23/19 11:00. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	4.1

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Client Sample Results

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-4 3'-4'
Report Date: 01/07/2020
Collection Date: 12/19/2019 08:00
Matrix: Soil
Lab ID: 19L0752-01

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	83.7	0.100		% (Percent)	0.00500	12/26/19 10:35	B9L0788	TB2	1	
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 0.0289	0.0289		mg/Kg dry	0.0289	01/02/20 15:52	B9L0945	KS1	50	
1,1,2,2-Tetrachloroethane	< 0.0280	0.0280		mg/Kg dry	0.0280	01/02/20 15:52	B9L0945	KS1	50	
1,1,2-Trichloroethane	< 0.0287	0.0287		mg/Kg dry	0.0287	01/02/20 15:52	B9L0945	KS1	50	
1,1-Dichloroethane	< 0.0435	0.0435		mg/Kg dry	0.0435	01/02/20 15:52	B9L0945	KS1	50	
1,1-Dichloroethene	< 0.0340	0.0340		mg/Kg dry	0.0340	01/02/20 15:52	B9L0945	KS1	50	
1,2,4-Trimethylbenzene	< 0.0168	0.0250		mg/Kg dry	0.0168	01/02/20 15:52	B9L0945	KS1	50	
1,2-Dibromo-3-chloropropane	< 0.0476	0.0476		mg/Kg dry	0.0476	01/02/20 15:52	B9L0945	KS1	50	
1,2-Dibromoethane	< 0.0146	0.0250		mg/Kg dry	0.0146	01/02/20 15:52	B9L0945	KS1	50	
1,2-Dichloroethane	< 0.0105	0.0250		mg/Kg dry	0.0105	01/02/20 15:52	B9L0945	KS1	50	
1,2-Dichloropropane	< 0.0195	0.0250		mg/Kg dry	0.0195	01/02/20 15:52	B9L0945	KS1	50	
1,3,5-Trimethylbenzene	< 0.0164	0.0250		mg/Kg dry	0.0164	01/02/20 15:52	B9L0945	KS1	50	
1-Butanol	< 0.498	0.498		mg/Kg dry	0.498	01/02/20 15:52	B9L0945	KS1	50	
2-Butanone	< 0.124	0.124		mg/Kg dry	0.124	01/02/20 15:52	B9L0945	KS1	50	
2-Hexanone	< 0.0855	0.0855		mg/Kg dry	0.0855	01/02/20 15:52	B9L0945	KS1	50	
4-Methyl-2-pentanone	< 0.0576	0.0576		mg/Kg dry	0.0576	01/02/20 15:52	B9L0945	KS1	50	
Acetone	< 0.212	0.212		mg/Kg dry	0.212	01/02/20 15:52	B9L0945	KS1	50	
Acrylonitrile	< 0.0611	0.0611		mg/Kg dry	0.0611	01/02/20 15:52	B9L0945	KS1	50	
Benzene	< 0.0125	0.0250		mg/Kg dry	0.0125	01/02/20 15:52	B9L0945	KS1	50	
Bromodichloromethane	< 0.0187	0.0250		mg/Kg dry	0.0187	01/02/20 15:52	B9L0945	KS1	50	
Bromoform	< 0.0203	0.0250		mg/Kg dry	0.0203	01/02/20 15:52	B9L0945	KS1	50	
Carbon disulfide	< 0.0152	0.0250		mg/Kg dry	0.0152	01/02/20 15:52	B9L0945	KS1	50	
Carbon tetrachloride	< 0.0131	0.0250		mg/Kg dry	0.0131	01/02/20 15:52	B9L0945	KS1	50	
Chlorobenzene	< 0.0145	0.0250		mg/Kg dry	0.0145	01/02/20 15:52	B9L0945	KS1	50	
Chloroform	< 0.0270	0.0270		mg/Kg dry	0.0270	01/02/20 15:52	B9L0945	KS1	50	
cis-1,2-Dichloroethene	< 0.0298	0.0298		mg/Kg dry	0.0298	01/02/20 15:52	B9L0945	KS1	50	
Dibromochloromethane	< 0.0236	0.0250		mg/Kg dry	0.0236	01/02/20 15:52	B9L0945	KS1	50	
Ethylbenzene	< 0.0186	0.0250		mg/Kg dry	0.0186	01/02/20 15:52	B9L0945	KS1	50	
m,p-Xylene	< 0.0924	0.0924		mg/Kg dry	0.0924	01/02/20 15:52	B9L0945	KS1	50	
Methyl tert-butyl ether	< 0.0217	0.0250		mg/Kg dry	0.0217	01/02/20 15:52	B9L0945	KS1	50	
Methylene chloride	< 0.0509	0.0509		mg/Kg dry	0.0509	01/02/20 15:52	B9L0945	KS1	50	
o-Xylene	< 0.0129	0.0250		mg/Kg dry	0.0129	01/02/20 15:52	B9L0945	KS1	50	
Styrene	< 0.0186	0.0250		mg/Kg dry	0.0186	01/02/20 15:52	B9L0945	KS1	50	
Tetrachloroethene	< 0.0225	0.0250		mg/Kg dry	0.0225	01/02/20 15:52	B9L0945	KS1	50	
Toluene	< 0.0169	0.0250		mg/Kg dry	0.0169	01/02/20 15:52	B9L0945	KS1	50	
trans-1,2-Dichloroethene	< 0.0410	0.0410		mg/Kg dry	0.0410	01/02/20 15:52	B9L0945	KS1	50	
Trichloroethene	< 0.0150	0.0250		mg/Kg dry	0.0150	01/02/20 15:52	B9L0945	KS1	50	
Vinyl acetate	< 0.0333	0.0333		mg/Kg dry	0.0333	01/02/20 15:52	B9L0945	KS1	50	
Vinyl chloride	< 0.0205	0.0250		mg/Kg dry	0.0205	01/02/20 15:52	B9L0945	KS1	50	
Xylenes, Total	< 0.105	0.105		mg/Kg dry	0.105	01/02/20 15:52	B9L0945	KS1	50	

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-4 3'-4'
Report Date: 01/07/2020
Collection Date: 12/19/2019 08:00
Matrix: Soil
Lab ID: 19L0752-01 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)										
1,2-Dichloroethene, Total	< 0.0708	0.0708			mg/Kg dry	0.0708	01/02/20 15:52	B9L0945	KS1	50
Surrogate: Dibromofluoromethane					Recovery: 102%	Limits: 78-137	01/02/20 15:52	B9L0945	KS1	50
Surrogate: 1,2-Dichloroethane-d4					Recovery: 103%	Limits: 86-137	01/02/20 15:52	B9L0945	KS1	50
Surrogate: Fluorobenzene					Recovery: 96%	Limits: 80-120	01/02/20 15:52	B9L0945	KS1	50
Surrogate: Toluene-d8					Recovery: 99%	Limits: 73-112	01/02/20 15:52	B9L0945	KS1	50
Surrogate: 4-Bromofluorobenzene					Recovery: 116%	Limits: 85-120	01/02/20 15:52	B9L0945	KS1	50
Surrogate: 1,2-Dichlorobenzene-d4					Recovery: 116%	Limits: 85-128	01/02/20 15:52	B9L0945	KS1	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-4 10'-11'
Report Date: 01/07/2020
Collection Date: 12/19/2019 08:15
Matrix: Soil
Lab ID: 19L0752-02

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Wet Chemistry										
Method: SM2540G										
Total Solids	95.5	0.100			% (Percent)	0.00500	12/26/19 10:35	B9L0788	TB2	1
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 0.0268	0.0268			mg/Kg dry	0.0268	01/02/20 16:17	B9L0945	KS1	50
1,1,2,2-Tetrachloroethane	< 0.0259	0.0259			mg/Kg dry	0.0259	01/02/20 16:17	B9L0945	KS1	50
1,1,2-Trichloroethane	< 0.0266	0.0266			mg/Kg dry	0.0266	01/02/20 16:17	B9L0945	KS1	50
1,1-Dichloroethane	< 0.0403	0.0403			mg/Kg dry	0.0403	01/02/20 16:17	B9L0945	KS1	50
1,1-Dichloroethene	< 0.0315	0.0315			mg/Kg dry	0.0315	01/02/20 16:17	B9L0945	KS1	50
1,2,4-Trimethylbenzene	< 0.0156	0.0250			mg/Kg dry	0.0156	01/02/20 16:17	B9L0945	KS1	50
1,2-Dibromo-3-chloropropane	< 0.0441	0.0441			mg/Kg dry	0.0441	01/02/20 16:17	B9L0945	KS1	50
1,2-Dibromoethane	< 0.0135	0.0250			mg/Kg dry	0.0135	01/02/20 16:17	B9L0945	KS1	50
1,2-Dichloroethane	< 0.00977	0.0250			mg/Kg dry	0.00977	01/02/20 16:17	B9L0945	KS1	50
1,2-Dichloropropane	< 0.0181	0.0250			mg/Kg dry	0.0181	01/02/20 16:17	B9L0945	KS1	50
1,3,5-Trimethylbenzene	< 0.0152	0.0250			mg/Kg dry	0.0152	01/02/20 16:17	B9L0945	KS1	50
1-Butanol	< 0.461	0.461			mg/Kg dry	0.461	01/02/20 16:17	B9L0945	KS1	50
2-Butanone	< 0.115	0.115			mg/Kg dry	0.115	01/02/20 16:17	B9L0945	KS1	50
2-Hexanone	< 0.0792	0.0792			mg/Kg dry	0.0792	01/02/20 16:17	B9L0945	KS1	50
4-Methyl-2-pentanone	< 0.0533	0.0533			mg/Kg dry	0.0533	01/02/20 16:17	B9L0945	KS1	50
Acetone	< 0.197	0.197			mg/Kg dry	0.197	01/02/20 16:17	B9L0945	KS1	50
Acrylonitrile	< 0.0566	0.0566			mg/Kg dry	0.0566	01/02/20 16:17	B9L0945	KS1	50
Benzene	< 0.0116	0.0250			mg/Kg dry	0.0116	01/02/20 16:17	B9L0945	KS1	50
Bromodichloromethane	< 0.0173	0.0250			mg/Kg dry	0.0173	01/02/20 16:17	B9L0945	KS1	50
Bromoform	< 0.0188	0.0250			mg/Kg dry	0.0188	01/02/20 16:17	B9L0945	KS1	50
Carbon disulfide	< 0.0141	0.0250			mg/Kg dry	0.0141	01/02/20 16:17	B9L0945	KS1	50
Carbon tetrachloride	< 0.0122	0.0250			mg/Kg dry	0.0122	01/02/20 16:17	B9L0945	KS1	50
Chlorobenzene	< 0.0134	0.0250			mg/Kg dry	0.0134	01/02/20 16:17	B9L0945	KS1	50
Chloroform	< 0.0250	0.0250			mg/Kg dry	0.0250	01/02/20 16:17	B9L0945	KS1	50
cis-1,2-Dichloroethene	< 0.0276	0.0276			mg/Kg dry	0.0276	01/02/20 16:17	B9L0945	KS1	50
Dibromochloromethane	< 0.0219	0.0250			mg/Kg dry	0.0219	01/02/20 16:17	B9L0945	KS1	50
Ethylbenzene	< 0.0172	0.0250			mg/Kg dry	0.0172	01/02/20 16:17	B9L0945	KS1	50
m,p-Xylene	< 0.0857	0.0857			mg/Kg dry	0.0857	01/02/20 16:17	B9L0945	KS1	50
Methyl tert-butyl ether	< 0.0201	0.0250			mg/Kg dry	0.0201	01/02/20 16:17	B9L0945	KS1	50
Methylene chloride	< 0.0471	0.0471			mg/Kg dry	0.0471	01/02/20 16:17	B9L0945	KS1	50
o-Xylene	< 0.0119	0.0250			mg/Kg dry	0.0119	01/02/20 16:17	B9L0945	KS1	50
Styrene	< 0.0172	0.0250			mg/Kg dry	0.0172	01/02/20 16:17	B9L0945	KS1	50
Tetrachloroethene	0.722	0.0250			mg/Kg dry	0.0209	01/02/20 16:17	B9L0945	KS1	50
Toluene	< 0.0157	0.0250			mg/Kg dry	0.0157	01/02/20 16:17	B9L0945	KS1	50
trans-1,2-Dichloroethene	< 0.0380	0.0380			mg/Kg dry	0.0380	01/02/20 16:17	B9L0945	KS1	50
Trichloroethene	< 0.0139	0.0250			mg/Kg dry	0.0139	01/02/20 16:17	B9L0945	KS1	50
Vinyl acetate	< 0.0309	0.0309			mg/Kg dry	0.0309	01/02/20 16:17	B9L0945	KS1	50
Vinyl chloride	< 0.0190	0.0250			mg/Kg dry	0.0190	01/02/20 16:17	B9L0945	KS1	50
Xylenes, Total	< 0.0976	0.0976			mg/Kg dry	0.0976	01/02/20 16:17	B9L0945	KS1	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-4 10'-11'
Report Date: 01/07/2020
Collection Date: 12/19/2019 08:15
Matrix: Soil
Lab ID: 19L0752-02 (Continued)

Analyses	EMT Reporting			MDL	Date/Time Analyzed	Batch	Analyst	DF
	Result	Limit	Qual Units					
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)								
1,2-Dichloroethene, Total	< 0.0656	0.0656	mg/Kg dry	0.0656	01/02/20 16:17	B9L0945	KS1	50
<i>Surrogate: Dibromofluoromethane</i>			<i>Recovery: 93%</i>	<i>Limits: 78-137</i>	<i>01/02/20 16:17</i>	<i>B9L0945</i>	<i>KS1</i>	<i>50</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>			<i>Recovery: 100%</i>	<i>Limits: 86-137</i>	<i>01/02/20 16:17</i>	<i>B9L0945</i>	<i>KS1</i>	<i>50</i>
<i>Surrogate: Fluorobenzene</i>			<i>Recovery: 98%</i>	<i>Limits: 80-120</i>	<i>01/02/20 16:17</i>	<i>B9L0945</i>	<i>KS1</i>	<i>50</i>
<i>Surrogate: Toluene-d8</i>			<i>Recovery: 94%</i>	<i>Limits: 73-112</i>	<i>01/02/20 16:17</i>	<i>B9L0945</i>	<i>KS1</i>	<i>50</i>
<i>Surrogate: 4-Bromofluorobenzene</i>			<i>Recovery: 112%</i>	<i>Limits: 85-120</i>	<i>01/02/20 16:17</i>	<i>B9L0945</i>	<i>KS1</i>	<i>50</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>			<i>Recovery: 108%</i>	<i>Limits: 85-128</i>	<i>01/02/20 16:17</i>	<i>B9L0945</i>	<i>KS1</i>	<i>50</i>

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-4 14'-15'
Report Date: 01/07/2020
Collection Date: 12/19/2019 08:30
Matrix: Soil
Lab ID: 19L0752-03

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	96.3	0.100		% (Percent)	0.00500	12/26/19 10:35	B9L0788	TB2	1	
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 0.0317	0.0317		mg/Kg dry	0.0317	01/02/20 16:42	B9L0945	KS1	50	
1,1,2,2-Tetrachloroethane	< 0.0307	0.0307		mg/Kg dry	0.0307	01/02/20 16:42	B9L0945	KS1	50	
1,1,2-Trichloroethane	< 0.0315	0.0315		mg/Kg dry	0.0315	01/02/20 16:42	B9L0945	KS1	50	
1,1-Dichloroethane	< 0.0477	0.0477		mg/Kg dry	0.0477	01/02/20 16:42	B9L0945	KS1	50	
1,1-Dichloroethene	< 0.0373	0.0373		mg/Kg dry	0.0373	01/02/20 16:42	B9L0945	KS1	50	
1,2,4-Trimethylbenzene	< 0.0184	0.0250		mg/Kg dry	0.0184	01/02/20 16:42	B9L0945	KS1	50	
1,2-Dibromo-3-chloropropane	< 0.0522	0.0522		mg/Kg dry	0.0522	01/02/20 16:42	B9L0945	KS1	50	
1,2-Dibromoethane	< 0.0160	0.0250		mg/Kg dry	0.0160	01/02/20 16:42	B9L0945	KS1	50	
1,2-Dichloroethane	< 0.0116	0.0250		mg/Kg dry	0.0116	01/02/20 16:42	B9L0945	KS1	50	
1,2-Dichloropropane	< 0.0214	0.0250		mg/Kg dry	0.0214	01/02/20 16:42	B9L0945	KS1	50	
1,3,5-Trimethylbenzene	< 0.0180	0.0250		mg/Kg dry	0.0180	01/02/20 16:42	B9L0945	KS1	50	
1-Butanol	< 0.546	0.546		mg/Kg dry	0.546	01/02/20 16:42	B9L0945	KS1	50	
2-Butanone	< 0.136	0.136		mg/Kg dry	0.136	01/02/20 16:42	B9L0945	KS1	50	
2-Hexanone	< 0.0937	0.0937		mg/Kg dry	0.0937	01/02/20 16:42	B9L0945	KS1	50	
4-Methyl-2-pentanone	< 0.0631	0.0631		mg/Kg dry	0.0631	01/02/20 16:42	B9L0945	KS1	50	
Acetone	< 0.233	0.233		mg/Kg dry	0.233	01/02/20 16:42	B9L0945	KS1	50	
Acrylonitrile	< 0.0669	0.0669		mg/Kg dry	0.0669	01/02/20 16:42	B9L0945	KS1	50	
Benzene	< 0.0137	0.0250		mg/Kg dry	0.0137	01/02/20 16:42	B9L0945	KS1	50	
Bromodichloromethane	< 0.0205	0.0250		mg/Kg dry	0.0205	01/02/20 16:42	B9L0945	KS1	50	
Bromoform	< 0.0223	0.0250		mg/Kg dry	0.0223	01/02/20 16:42	B9L0945	KS1	50	
Carbon disulfide	< 0.0167	0.0250		mg/Kg dry	0.0167	01/02/20 16:42	B9L0945	KS1	50	
Carbon tetrachloride	< 0.0144	0.0250		mg/Kg dry	0.0144	01/02/20 16:42	B9L0945	KS1	50	
Chlorobenzene	< 0.0159	0.0250		mg/Kg dry	0.0159	01/02/20 16:42	B9L0945	KS1	50	
Chloroform	< 0.0296	0.0296		mg/Kg dry	0.0296	01/02/20 16:42	B9L0945	KS1	50	
cis-1,2-Dichloroethene	< 0.0327	0.0327		mg/Kg dry	0.0327	01/02/20 16:42	B9L0945	KS1	50	
Dibromochloromethane	< 0.0259	0.0259		mg/Kg dry	0.0259	01/02/20 16:42	B9L0945	KS1	50	
Ethylbenzene	< 0.0204	0.0250		mg/Kg dry	0.0204	01/02/20 16:42	B9L0945	KS1	50	
m,p-Xylene	< 0.101	0.101		mg/Kg dry	0.101	01/02/20 16:42	B9L0945	KS1	50	
Methyl tert-butyl ether	< 0.0238	0.0250		mg/Kg dry	0.0238	01/02/20 16:42	B9L0945	KS1	50	
Methylene chloride	< 0.0558	0.0558		mg/Kg dry	0.0558	01/02/20 16:42	B9L0945	KS1	50	
o-Xylene	0.0149	0.0250	J	mg/Kg dry	0.0141	01/02/20 16:42	B9L0945	KS1	50	
Styrene	< 0.0204	0.0250		mg/Kg dry	0.0204	01/02/20 16:42	B9L0945	KS1	50	
Tetrachloroethene	4.64	0.0250		mg/Kg dry	0.0247	01/02/20 16:42	B9L0945	KS1	50	
Toluene	< 0.0185	0.0250		mg/Kg dry	0.0185	01/02/20 16:42	B9L0945	KS1	50	
trans-1,2-Dichloroethene	< 0.0450	0.0450		mg/Kg dry	0.0450	01/02/20 16:42	B9L0945	KS1	50	
Trichloroethene	< 0.0164	0.0250		mg/Kg dry	0.0164	01/02/20 16:42	B9L0945	KS1	50	
Vinyl acetate	< 0.0365	0.0365		mg/Kg dry	0.0365	01/02/20 16:42	B9L0945	KS1	50	
Vinyl chloride	< 0.0225	0.0250		mg/Kg dry	0.0225	01/02/20 16:42	B9L0945	KS1	50	
Xylenes, Total	< 0.115	0.115		mg/Kg dry	0.115	01/02/20 16:42	B9L0945	KS1	50	

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-4 14'-15'
Report Date: 01/07/2020
Collection Date: 12/19/2019 08:30
Matrix: Soil
Lab ID: 19L0752-03 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)										
1,2-Dichloroethene, Total	< 0.0776	0.0776			mg/Kg dry	0.0776	01/02/20 16:42	B9L0945	KS1	50
Surrogate: Dibromofluoromethane					Recovery: 96%	Limits: 78-137	01/02/20 16:42	B9L0945	KS1	50
Surrogate: 1,2-Dichloroethane-d4					Recovery: 94%	Limits: 86-137	01/02/20 16:42	B9L0945	KS1	50
Surrogate: Fluorobenzene					Recovery: 98%	Limits: 80-120	01/02/20 16:42	B9L0945	KS1	50
Surrogate: Toluene-d8					Recovery: 98%	Limits: 73-112	01/02/20 16:42	B9L0945	KS1	50
Surrogate: 4-Bromofluorobenzene					Recovery: 101%	Limits: 85-120	01/02/20 16:42	B9L0945	KS1	50
Surrogate: 1,2-Dichlorobenzene-d4					Recovery: 102%	Limits: 85-128	01/02/20 16:42	B9L0945	KS1	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-5 3'-4'
Report Date: 01/07/2020
Collection Date: 12/19/2019 09:00
Matrix: Soil
Lab ID: 19L0752-04

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	86.0	0.100		% (Percent)	0.00500	12/26/19 10:35	B9L0788	TB2	1	
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 0.0242	0.0250		mg/Kg dry	0.0242	01/02/20 17:07	B9L0945	KS1	50	
1,1,2,2-Tetrachloroethane	< 0.0234	0.0250		mg/Kg dry	0.0234	01/02/20 17:07	B9L0945	KS1	50	
1,1,2-Trichloroethane	< 0.0240	0.0250		mg/Kg dry	0.0240	01/02/20 17:07	B9L0945	KS1	50	
1,1-Dichloroethane	< 0.0364	0.0364		mg/Kg dry	0.0364	01/02/20 17:07	B9L0945	KS1	50	
1,1-Dichloroethene	< 0.0285	0.0285		mg/Kg dry	0.0285	01/02/20 17:07	B9L0945	KS1	50	
1,2,4-Trimethylbenzene	< 0.0141	0.0250		mg/Kg dry	0.0141	01/02/20 17:07	B9L0945	KS1	50	
1,2-Dibromo-3-chloropropane	< 0.0398	0.0398		mg/Kg dry	0.0398	01/02/20 17:07	B9L0945	KS1	50	
1,2-Dibromoethane	< 0.0122	0.0250		mg/Kg dry	0.0122	01/02/20 17:07	B9L0945	KS1	50	
1,2-Dichloroethane	< 0.00883	0.0250		mg/Kg dry	0.00883	01/02/20 17:07	B9L0945	KS1	50	
1,2-Dichloropropane	< 0.0163	0.0250		mg/Kg dry	0.0163	01/02/20 17:07	B9L0945	KS1	50	
1,3,5-Trimethylbenzene	< 0.0138	0.0250		mg/Kg dry	0.0138	01/02/20 17:07	B9L0945	KS1	50	
1-Butanol	< 0.417	0.417		mg/Kg dry	0.417	01/02/20 17:07	B9L0945	KS1	50	
2-Butanone	< 0.104	0.104		mg/Kg dry	0.104	01/02/20 17:07	B9L0945	KS1	50	
2-Hexanone	< 0.0715	0.0715		mg/Kg dry	0.0715	01/02/20 17:07	B9L0945	KS1	50	
4-Methyl-2-pentanone	< 0.0482	0.0482		mg/Kg dry	0.0482	01/02/20 17:07	B9L0945	KS1	50	
Acetone	< 0.178	0.178		mg/Kg dry	0.178	01/02/20 17:07	B9L0945	KS1	50	
Acrylonitrile	< 0.0511	0.0511		mg/Kg dry	0.0511	01/02/20 17:07	B9L0945	KS1	50	
Benzene	< 0.0105	0.0250		mg/Kg dry	0.0105	01/02/20 17:07	B9L0945	KS1	50	
Bromodichloromethane	< 0.0156	0.0250		mg/Kg dry	0.0156	01/02/20 17:07	B9L0945	KS1	50	
Bromoform	< 0.0170	0.0250		mg/Kg dry	0.0170	01/02/20 17:07	B9L0945	KS1	50	
Carbon disulfide	< 0.0127	0.0250		mg/Kg dry	0.0127	01/02/20 17:07	B9L0945	KS1	50	
Carbon tetrachloride	< 0.0110	0.0250		mg/Kg dry	0.0110	01/02/20 17:07	B9L0945	KS1	50	
Chlorobenzene	< 0.0121	0.0250		mg/Kg dry	0.0121	01/02/20 17:07	B9L0945	KS1	50	
Chloroform	< 0.0226	0.0250		mg/Kg dry	0.0226	01/02/20 17:07	B9L0945	KS1	50	
cis-1,2-Dichloroethene	< 0.0249	0.0250		mg/Kg dry	0.0249	01/02/20 17:07	B9L0945	KS1	50	
Dibromochloromethane	< 0.0198	0.0250		mg/Kg dry	0.0198	01/02/20 17:07	B9L0945	KS1	50	
Ethylbenzene	< 0.0156	0.0250		mg/Kg dry	0.0156	01/02/20 17:07	B9L0945	KS1	50	
m,p-Xylene	< 0.0774	0.0774		mg/Kg dry	0.0774	01/02/20 17:07	B9L0945	KS1	50	
Methyl tert-butyl ether	< 0.0182	0.0250		mg/Kg dry	0.0182	01/02/20 17:07	B9L0945	KS1	50	
Methylene chloride	< 0.0426	0.0426		mg/Kg dry	0.0426	01/02/20 17:07	B9L0945	KS1	50	
o-Xylene	< 0.0108	0.0250		mg/Kg dry	0.0108	01/02/20 17:07	B9L0945	KS1	50	
Styrene	< 0.0155	0.0250		mg/Kg dry	0.0155	01/02/20 17:07	B9L0945	KS1	50	
Tetrachloroethene	< 0.0189	0.0250		mg/Kg dry	0.0189	01/02/20 17:07	B9L0945	KS1	50	
Toluene	< 0.0141	0.0250		mg/Kg dry	0.0141	01/02/20 17:07	B9L0945	KS1	50	
trans-1,2-Dichloroethene	< 0.0343	0.0343		mg/Kg dry	0.0343	01/02/20 17:07	B9L0945	KS1	50	
Trichloroethene	< 0.0126	0.0250		mg/Kg dry	0.0126	01/02/20 17:07	B9L0945	KS1	50	
Vinyl acetate	< 0.0279	0.0279		mg/Kg dry	0.0279	01/02/20 17:07	B9L0945	KS1	50	
Vinyl chloride	< 0.0172	0.0250		mg/Kg dry	0.0172	01/02/20 17:07	B9L0945	KS1	50	
Xylenes, Total	< 0.0881	0.0881		mg/Kg dry	0.0881	01/02/20 17:07	B9L0945	KS1	50	

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-5 3'-4'
Report Date: 01/07/2020
Collection Date: 12/19/2019 09:00
Matrix: Soil
Lab ID: 19L0752-04 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)										
1,2-Dichloroethene, Total	< 0.0593	0.0593			mg/Kg dry	0.0593	01/02/20 17:07	B9L0945	KS1	50
Surrogate: Dibromofluoromethane					Recovery: 98%	Limits: 78-137	01/02/20 17:07	B9L0945	KS1	50
Surrogate: 1,2-Dichloroethane-d4					Recovery: 96%	Limits: 86-137	01/02/20 17:07	B9L0945	KS1	50
Surrogate: Fluorobenzene					Recovery: 98%	Limits: 80-120	01/02/20 17:07	B9L0945	KS1	50
Surrogate: Toluene-d8					Recovery: 99%	Limits: 73-112	01/02/20 17:07	B9L0945	KS1	50
Surrogate: 4-Bromofluorobenzene					Recovery: 98%	Limits: 85-120	01/02/20 17:07	B9L0945	KS1	50
Surrogate: 1,2-Dichlorobenzene-d4					Recovery: 103%	Limits: 85-128	01/02/20 17:07	B9L0945	KS1	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-5 11'-12'
Report Date: 01/07/2020
Collection Date: 12/19/2019 09:15
Matrix: Soil
Lab ID: 19L0752-05

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Wet Chemistry										
Method: SM2540G										
Total Solids	80.4	0.100			% (Percent)	0.00500	12/26/19 10:35	B9L0788	TB2	1
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 0.0246	0.0250			mg/Kg dry	0.0246	01/02/20 17:32	B9L0945	KS1	50
1,1,2,2-Tetrachloroethane	< 0.0237	0.0250			mg/Kg dry	0.0237	01/02/20 17:32	B9L0945	KS1	50
1,1,2-Trichloroethane	< 0.0244	0.0250			mg/Kg dry	0.0244	01/02/20 17:32	B9L0945	KS1	50
1,1-Dichloroethane	< 0.0369	0.0369			mg/Kg dry	0.0369	01/02/20 17:32	B9L0945	KS1	50
1,1-Dichloroethene	< 0.0289	0.0289			mg/Kg dry	0.0289	01/02/20 17:32	B9L0945	KS1	50
1,2,4-Trimethylbenzene	< 0.0143	0.0250			mg/Kg dry	0.0143	01/02/20 17:32	B9L0945	KS1	50
1,2-Dibromo-3-chloropropane	< 0.0404	0.0404			mg/Kg dry	0.0404	01/02/20 17:32	B9L0945	KS1	50
1,2-Dibromoethane	< 0.0124	0.0250			mg/Kg dry	0.0124	01/02/20 17:32	B9L0945	KS1	50
1,2-Dichloroethane	< 0.00895	0.0250			mg/Kg dry	0.00895	01/02/20 17:32	B9L0945	KS1	50
1,2-Dichloropropane	< 0.0166	0.0250			mg/Kg dry	0.0166	01/02/20 17:32	B9L0945	KS1	50
1,3,5-Trimethylbenzene	< 0.0140	0.0250			mg/Kg dry	0.0140	01/02/20 17:32	B9L0945	KS1	50
1-Butanol	< 0.423	0.423			mg/Kg dry	0.423	01/02/20 17:32	B9L0945	KS1	50
2-Butanone	< 0.105	0.105			mg/Kg dry	0.105	01/02/20 17:32	B9L0945	KS1	50
2-Hexanone	< 0.0725	0.0725			mg/Kg dry	0.0725	01/02/20 17:32	B9L0945	KS1	50
4-Methyl-2-pentanone	< 0.0489	0.0489			mg/Kg dry	0.0489	01/02/20 17:32	B9L0945	KS1	50
Acetone	< 0.180	0.180			mg/Kg dry	0.180	01/02/20 17:32	B9L0945	KS1	50
Acrylonitrile	< 0.0518	0.0518			mg/Kg dry	0.0518	01/02/20 17:32	B9L0945	KS1	50
Benzene	< 0.0106	0.0250			mg/Kg dry	0.0106	01/02/20 17:32	B9L0945	KS1	50
Bromodichloromethane	< 0.0158	0.0250			mg/Kg dry	0.0158	01/02/20 17:32	B9L0945	KS1	50
Bromoform	< 0.0172	0.0250			mg/Kg dry	0.0172	01/02/20 17:32	B9L0945	KS1	50
Carbon disulfide	< 0.0129	0.0250			mg/Kg dry	0.0129	01/02/20 17:32	B9L0945	KS1	50
Carbon tetrachloride	< 0.0112	0.0250			mg/Kg dry	0.0112	01/02/20 17:32	B9L0945	KS1	50
Chlorobenzene	< 0.0123	0.0250			mg/Kg dry	0.0123	01/02/20 17:32	B9L0945	KS1	50
Chloroform	< 0.0229	0.0250			mg/Kg dry	0.0229	01/02/20 17:32	B9L0945	KS1	50
cis-1,2-Dichloroethene	< 0.0253	0.0253			mg/Kg dry	0.0253	01/02/20 17:32	B9L0945	KS1	50
Dibromochloromethane	< 0.0201	0.0250			mg/Kg dry	0.0201	01/02/20 17:32	B9L0945	KS1	50
Ethylbenzene	< 0.0158	0.0250			mg/Kg dry	0.0158	01/02/20 17:32	B9L0945	KS1	50
m,p-Xylene	< 0.0784	0.0784			mg/Kg dry	0.0784	01/02/20 17:32	B9L0945	KS1	50
Methyl tert-butyl ether	< 0.0184	0.0250			mg/Kg dry	0.0184	01/02/20 17:32	B9L0945	KS1	50
Methylene chloride	< 0.0432	0.0432			mg/Kg dry	0.0432	01/02/20 17:32	B9L0945	KS1	50
o-Xylene	< 0.0109	0.0250			mg/Kg dry	0.0109	01/02/20 17:32	B9L0945	KS1	50
Styrene	< 0.0158	0.0250			mg/Kg dry	0.0158	01/02/20 17:32	B9L0945	KS1	50
Tetrachloroethene	< 0.0191	0.0250			mg/Kg dry	0.0191	01/02/20 17:32	B9L0945	KS1	50
Toluene	< 0.0143	0.0250			mg/Kg dry	0.0143	01/02/20 17:32	B9L0945	KS1	50
trans-1,2-Dichloroethene	< 0.0348	0.0348			mg/Kg dry	0.0348	01/02/20 17:32	B9L0945	KS1	50
Trichloroethene	< 0.0127	0.0250			mg/Kg dry	0.0127	01/02/20 17:32	B9L0945	KS1	50
Vinyl acetate	< 0.0283	0.0283			mg/Kg dry	0.0283	01/02/20 17:32	B9L0945	KS1	50
Vinyl chloride	< 0.0174	0.0250			mg/Kg dry	0.0174	01/02/20 17:32	B9L0945	KS1	50
Xylenes, Total	< 0.0893	0.0893			mg/Kg dry	0.0893	01/02/20 17:32	B9L0945	KS1	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-5 11'-12'
Report Date: 01/07/2020
Collection Date: 12/19/2019 09:15
Matrix: Soil
Lab ID: 19L0752-05 (Continued)

Analyses	Result	EMT Reporting		Qual Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit								
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)										
1,2-Dichloroethene, Total	< 0.0601	0.0601		mg/Kg dry	0.0601	01/02/20 17:32	B9L0945	KS1	50	
Surrogate: Dibromofluoromethane				Recovery: 97%	Limits: 78-137	01/02/20 17:32	B9L0945	KS1	50	
Surrogate: 1,2-Dichloroethane-d4				Recovery: 98%	Limits: 86-137	01/02/20 17:32	B9L0945	KS1	50	
Surrogate: Fluorobenzene				Recovery: 96%	Limits: 80-120	01/02/20 17:32	B9L0945	KS1	50	
Surrogate: Toluene-d8				Recovery: 96%	Limits: 73-112	01/02/20 17:32	B9L0945	KS1	50	
Surrogate: 4-Bromofluorobenzene				Recovery: 103%	Limits: 85-120	01/02/20 17:32	B9L0945	KS1	50	
Surrogate: 1,2-Dichlorobenzene-d4				Recovery: 108%	Limits: 85-128	01/02/20 17:32	B9L0945	KS1	50	

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-5 14'-15'
Report Date: 01/07/2020
Collection Date: 12/19/2019 09:30
Matrix: Soil
Lab ID: 19L0752-06

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Wet Chemistry										
Method: SM2540G										
Total Solids	96.7	0.100			% (Percent)	0.00500	12/26/19 10:35	B9L0788	TB2	1
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 0.0327	0.0327			mg/Kg dry	0.0327	01/02/20 17:57	B9L0945	KS1	50
1,1,2,2-Tetrachloroethane	< 0.0316	0.0316			mg/Kg dry	0.0316	01/02/20 17:57	B9L0945	KS1	50
1,1,2-Trichloroethane	< 0.0325	0.0325			mg/Kg dry	0.0325	01/02/20 17:57	B9L0945	KS1	50
1,1-Dichloroethane	< 0.0492	0.0492			mg/Kg dry	0.0492	01/02/20 17:57	B9L0945	KS1	50
1,1-Dichloroethene	< 0.0385	0.0385			mg/Kg dry	0.0385	01/02/20 17:57	B9L0945	KS1	50
1,2,4-Trimethylbenzene	< 0.0190	0.0250			mg/Kg dry	0.0190	01/02/20 17:57	B9L0945	KS1	50
1,2-Dibromo-3-chloropropane	< 0.0539	0.0539			mg/Kg dry	0.0539	01/02/20 17:57	B9L0945	KS1	50
1,2-Dibromoethane	< 0.0165	0.0250			mg/Kg dry	0.0165	01/02/20 17:57	B9L0945	KS1	50
1,2-Dichloroethane	< 0.0119	0.0250			mg/Kg dry	0.0119	01/02/20 17:57	B9L0945	KS1	50
1,2-Dichloropropane	< 0.0221	0.0250			mg/Kg dry	0.0221	01/02/20 17:57	B9L0945	KS1	50
1,3,5-Trimethylbenzene	< 0.0186	0.0250			mg/Kg dry	0.0186	01/02/20 17:57	B9L0945	KS1	50
1-Butanol	< 0.563	0.563			mg/Kg dry	0.563	01/02/20 17:57	B9L0945	KS1	50
2-Butanone	< 0.140	0.140			mg/Kg dry	0.140	01/02/20 17:57	B9L0945	KS1	50
2-Hexanone	< 0.0967	0.0967			mg/Kg dry	0.0967	01/02/20 17:57	B9L0945	KS1	50
4-Methyl-2-pentanone	< 0.0651	0.0651			mg/Kg dry	0.0651	01/02/20 17:57	B9L0945	KS1	50
Acetone	< 0.240	0.240			mg/Kg dry	0.240	01/02/20 17:57	B9L0945	KS1	50
Acrylonitrile	< 0.0691	0.0691			mg/Kg dry	0.0691	01/02/20 17:57	B9L0945	KS1	50
Benzene	< 0.0142	0.0250			mg/Kg dry	0.0142	01/02/20 17:57	B9L0945	KS1	50
Bromodichloromethane	< 0.0211	0.0250			mg/Kg dry	0.0211	01/02/20 17:57	B9L0945	KS1	50
Bromoform	< 0.0230	0.0250			mg/Kg dry	0.0230	01/02/20 17:57	B9L0945	KS1	50
Carbon disulfide	< 0.0172	0.0250			mg/Kg dry	0.0172	01/02/20 17:57	B9L0945	KS1	50
Carbon tetrachloride	< 0.0149	0.0250			mg/Kg dry	0.0149	01/02/20 17:57	B9L0945	KS1	50
Chlorobenzene	< 0.0164	0.0250			mg/Kg dry	0.0164	01/02/20 17:57	B9L0945	KS1	50
Chloroform	< 0.0306	0.0306			mg/Kg dry	0.0306	01/02/20 17:57	B9L0945	KS1	50
cis-1,2-Dichloroethene	< 0.0337	0.0337			mg/Kg dry	0.0337	01/02/20 17:57	B9L0945	KS1	50
Dibromochloromethane	< 0.0268	0.0268			mg/Kg dry	0.0268	01/02/20 17:57	B9L0945	KS1	50
Ethylbenzene	< 0.0210	0.0250			mg/Kg dry	0.0210	01/02/20 17:57	B9L0945	KS1	50
m,p-Xylene	< 0.105	0.105			mg/Kg dry	0.105	01/02/20 17:57	B9L0945	KS1	50
Methyl tert-butyl ether	< 0.0246	0.0250			mg/Kg dry	0.0246	01/02/20 17:57	B9L0945	KS1	50
Methylene chloride	< 0.0575	0.0575			mg/Kg dry	0.0575	01/02/20 17:57	B9L0945	KS1	50
o-Xylene	< 0.0145	0.0250			mg/Kg dry	0.0145	01/02/20 17:57	B9L0945	KS1	50
Styrene	< 0.0210	0.0250			mg/Kg dry	0.0210	01/02/20 17:57	B9L0945	KS1	50
Tetrachloroethene	< 0.0255	0.0255			mg/Kg dry	0.0255	01/02/20 17:57	B9L0945	KS1	50
Toluene	< 0.0191	0.0250			mg/Kg dry	0.0191	01/02/20 17:57	B9L0945	KS1	50
trans-1,2-Dichloroethene	< 0.0464	0.0464			mg/Kg dry	0.0464	01/02/20 17:57	B9L0945	KS1	50
Trichloroethene	< 0.0170	0.0250			mg/Kg dry	0.0170	01/02/20 17:57	B9L0945	KS1	50
Vinyl acetate	< 0.0377	0.0377			mg/Kg dry	0.0377	01/02/20 17:57	B9L0945	KS1	50
Vinyl chloride	< 0.0232	0.0250			mg/Kg dry	0.0232	01/02/20 17:57	B9L0945	KS1	50
Xylenes, Total	< 0.119	0.119			mg/Kg dry	0.119	01/02/20 17:57	B9L0945	KS1	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-5 14'-15'
Report Date: 01/07/2020
Collection Date: 12/19/2019 09:30
Matrix: Soil
Lab ID: 19L0752-06 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)										
1,2-Dichloroethene, Total	< 0.0801	0.0801			mg/Kg dry	0.0801	01/02/20 17:57	B9L0945	KS1	50
Surrogate: Dibromofluoromethane					Recovery: 95%	Limits: 78-137	01/02/20 17:57	B9L0945	KS1	50
Surrogate: 1,2-Dichloroethane-d4					Recovery: 97%	Limits: 86-137	01/02/20 17:57	B9L0945	KS1	50
Surrogate: Fluorobenzene					Recovery: 94%	Limits: 80-120	01/02/20 17:57	B9L0945	KS1	50
Surrogate: Toluene-d8					Recovery: 93%	Limits: 73-112	01/02/20 17:57	B9L0945	KS1	50
Surrogate: 4-Bromofluorobenzene					Recovery: 118%	Limits: 85-120	01/02/20 17:57	B9L0945	KS1	50
Surrogate: 1,2-Dichlorobenzene-d4					Recovery: 108%	Limits: 85-128	01/02/20 17:57	B9L0945	KS1	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-6 2'-3'
Report Date: 01/07/2020
Collection Date: 12/19/2019 10:00
Matrix: Soil
Lab ID: 19L0752-07

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Wet Chemistry										
Method: SM2540G										
Total Solids	91.0	0.100			% (Percent)	0.00500	12/26/19 10:35	B9L0788	TB2	1
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 0.0253	0.0253			mg/Kg dry	0.0253	01/02/20 18:22	B9L0945	KS1	50
1,1,2,2-Tetrachloroethane	< 0.0245	0.0250			mg/Kg dry	0.0245	01/02/20 18:22	B9L0945	KS1	50
1,1,2-Trichloroethane	< 0.0252	0.0252			mg/Kg dry	0.0252	01/02/20 18:22	B9L0945	KS1	50
1,1-Dichloroethane	< 0.0381	0.0381			mg/Kg dry	0.0381	01/02/20 18:22	B9L0945	KS1	50
1,1-Dichloroethene	< 0.0298	0.0298			mg/Kg dry	0.0298	01/02/20 18:22	B9L0945	KS1	50
1,2,4-Trimethylbenzene	< 0.0147	0.0250			mg/Kg dry	0.0147	01/02/20 18:22	B9L0945	KS1	50
1,2-Dibromo-3-chloropropane	< 0.0417	0.0417			mg/Kg dry	0.0417	01/02/20 18:22	B9L0945	KS1	50
1,2-Dibromoethane	< 0.0128	0.0250			mg/Kg dry	0.0128	01/02/20 18:22	B9L0945	KS1	50
1,2-Dichloroethane	< 0.00924	0.0250			mg/Kg dry	0.00924	01/02/20 18:22	B9L0945	KS1	50
1,2-Dichloropropane	< 0.0171	0.0250			mg/Kg dry	0.0171	01/02/20 18:22	B9L0945	KS1	50
1,3,5-Trimethylbenzene	< 0.0144	0.0250			mg/Kg dry	0.0144	01/02/20 18:22	B9L0945	KS1	50
1-Butanol	< 0.436	0.436			mg/Kg dry	0.436	01/02/20 18:22	B9L0945	KS1	50
2-Butanone	< 0.108	0.108			mg/Kg dry	0.108	01/02/20 18:22	B9L0945	KS1	50
2-Hexanone	< 0.0749	0.0749			mg/Kg dry	0.0749	01/02/20 18:22	B9L0945	KS1	50
4-Methyl-2-pentanone	< 0.0504	0.0504			mg/Kg dry	0.0504	01/02/20 18:22	B9L0945	KS1	50
Acetone	< 0.186	0.186			mg/Kg dry	0.186	01/02/20 18:22	B9L0945	KS1	50
Acrylonitrile	< 0.0535	0.0535			mg/Kg dry	0.0535	01/02/20 18:22	B9L0945	KS1	50
Benzene	< 0.0110	0.0250			mg/Kg dry	0.0110	01/02/20 18:22	B9L0945	KS1	50
Bromodichloromethane	< 0.0164	0.0250			mg/Kg dry	0.0164	01/02/20 18:22	B9L0945	KS1	50
Bromoform	< 0.0178	0.0250			mg/Kg dry	0.0178	01/02/20 18:22	B9L0945	KS1	50
Carbon disulfide	< 0.0133	0.0250			mg/Kg dry	0.0133	01/02/20 18:22	B9L0945	KS1	50
Carbon tetrachloride	< 0.0115	0.0250			mg/Kg dry	0.0115	01/02/20 18:22	B9L0945	KS1	50
Chlorobenzene	< 0.0127	0.0250			mg/Kg dry	0.0127	01/02/20 18:22	B9L0945	KS1	50
Chloroform	< 0.0237	0.0250			mg/Kg dry	0.0237	01/02/20 18:22	B9L0945	KS1	50
cis-1,2-Dichloroethene	< 0.0261	0.0261			mg/Kg dry	0.0261	01/02/20 18:22	B9L0945	KS1	50
Dibromochloromethane	< 0.0207	0.0250			mg/Kg dry	0.0207	01/02/20 18:22	B9L0945	KS1	50
Ethylbenzene	< 0.0163	0.0250			mg/Kg dry	0.0163	01/02/20 18:22	B9L0945	KS1	50
m,p-Xylene	< 0.0810	0.0810			mg/Kg dry	0.0810	01/02/20 18:22	B9L0945	KS1	50
Methyl tert-butyl ether	< 0.0190	0.0250			mg/Kg dry	0.0190	01/02/20 18:22	B9L0945	KS1	50
Methylene chloride	< 0.0446	0.0446			mg/Kg dry	0.0446	01/02/20 18:22	B9L0945	KS1	50
o-Xylene	< 0.0113	0.0250			mg/Kg dry	0.0113	01/02/20 18:22	B9L0945	KS1	50
Styrene	< 0.0163	0.0250			mg/Kg dry	0.0163	01/02/20 18:22	B9L0945	KS1	50
Tetrachloroethene	< 0.0197	0.0250			mg/Kg dry	0.0197	01/02/20 18:22	B9L0945	KS1	50
Toluene	< 0.0148	0.0250			mg/Kg dry	0.0148	01/02/20 18:22	B9L0945	KS1	50
trans-1,2-Dichloroethene	< 0.0359	0.0359			mg/Kg dry	0.0359	01/02/20 18:22	B9L0945	KS1	50
Trichloroethene	< 0.0131	0.0250			mg/Kg dry	0.0131	01/02/20 18:22	B9L0945	KS1	50
Vinyl acetate	< 0.0292	0.0292			mg/Kg dry	0.0292	01/02/20 18:22	B9L0945	KS1	50
Vinyl chloride	< 0.0180	0.0250			mg/Kg dry	0.0180	01/02/20 18:22	B9L0945	KS1	50
Xylenes, Total	< 0.0922	0.0922			mg/Kg dry	0.0922	01/02/20 18:22	B9L0945	KS1	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-6 2'-3'
Report Date: 01/07/2020
Collection Date: 12/19/2019 10:00
Matrix: Soil
Lab ID: 19L0752-07 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)										
1,2-Dichloroethene, Total	< 0.0621	0.0621			mg/Kg dry	0.0621	01/02/20 18:22	B9L0945	KS1	50
Surrogate: Dibromofluoromethane					Recovery: 96%	Limits: 78-137	01/02/20 18:22	B9L0945	KS1	50
Surrogate: 1,2-Dichloroethane-d4					Recovery: 97%	Limits: 86-137	01/02/20 18:22	B9L0945	KS1	50
Surrogate: Fluorobenzene					Recovery: 96%	Limits: 80-120	01/02/20 18:22	B9L0945	KS1	50
Surrogate: Toluene-d8					Recovery: 98%	Limits: 73-112	01/02/20 18:22	B9L0945	KS1	50
Surrogate: 4-Bromofluorobenzene					Recovery: 106%	Limits: 85-120	01/02/20 18:22	B9L0945	KS1	50
Surrogate: 1,2-Dichlorobenzene-d4					Recovery: 109%	Limits: 85-128	01/02/20 18:22	B9L0945	KS1	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-6 14'-15'
Report Date: 01/07/2020
Collection Date: 12/19/2019 10:15
Matrix: Soil
Lab ID: 19L0752-08

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	96.6	0.100		% (Percent)	0.00500	12/26/19 10:35	B9L0788	TB2	1	
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 0.0292	0.0292		mg/Kg dry	0.0292	01/02/20 18:47	B9L0945	KS1	50	
1,1,2,2-Tetrachloroethane	< 0.0282	0.0282		mg/Kg dry	0.0282	01/02/20 18:47	B9L0945	KS1	50	
1,1,2-Trichloroethane	< 0.0289	0.0289		mg/Kg dry	0.0289	01/02/20 18:47	B9L0945	KS1	50	
1,1-Dichloroethane	< 0.0438	0.0438		mg/Kg dry	0.0438	01/02/20 18:47	B9L0945	KS1	50	
1,1-Dichloroethene	< 0.0343	0.0343		mg/Kg dry	0.0343	01/02/20 18:47	B9L0945	KS1	50	
1,2,4-Trimethylbenzene	< 0.0169	0.0250		mg/Kg dry	0.0169	01/02/20 18:47	B9L0945	KS1	50	
1,2-Dibromo-3-chloropropane	< 0.0480	0.0480		mg/Kg dry	0.0480	01/02/20 18:47	B9L0945	KS1	50	
1,2-Dibromoethane	< 0.0147	0.0250		mg/Kg dry	0.0147	01/02/20 18:47	B9L0945	KS1	50	
1,2-Dichloroethane	< 0.0106	0.0250		mg/Kg dry	0.0106	01/02/20 18:47	B9L0945	KS1	50	
1,2-Dichloropropane	< 0.0197	0.0250		mg/Kg dry	0.0197	01/02/20 18:47	B9L0945	KS1	50	
1,3,5-Trimethylbenzene	< 0.0166	0.0250		mg/Kg dry	0.0166	01/02/20 18:47	B9L0945	KS1	50	
1-Butanol	< 0.502	0.502		mg/Kg dry	0.502	01/02/20 18:47	B9L0945	KS1	50	
2-Butanone	< 0.125	0.125		mg/Kg dry	0.125	01/02/20 18:47	B9L0945	KS1	50	
2-Hexanone	< 0.0861	0.0861		mg/Kg dry	0.0861	01/02/20 18:47	B9L0945	KS1	50	
4-Methyl-2-pentanone	< 0.0580	0.0580		mg/Kg dry	0.0580	01/02/20 18:47	B9L0945	KS1	50	
Acetone	< 0.214	0.214		mg/Kg dry	0.214	01/02/20 18:47	B9L0945	KS1	50	
Acrylonitrile	< 0.0615	0.0615		mg/Kg dry	0.0615	01/02/20 18:47	B9L0945	KS1	50	
Benzene	< 0.0126	0.0250		mg/Kg dry	0.0126	01/02/20 18:47	B9L0945	KS1	50	
Bromodichloromethane	< 0.0188	0.0250		mg/Kg dry	0.0188	01/02/20 18:47	B9L0945	KS1	50	
Bromoform	< 0.0205	0.0250		mg/Kg dry	0.0205	01/02/20 18:47	B9L0945	KS1	50	
Carbon disulfide	< 0.0153	0.0250		mg/Kg dry	0.0153	01/02/20 18:47	B9L0945	KS1	50	
Carbon tetrachloride	< 0.0132	0.0250		mg/Kg dry	0.0132	01/02/20 18:47	B9L0945	KS1	50	
Chlorobenzene	< 0.0146	0.0250		mg/Kg dry	0.0146	01/02/20 18:47	B9L0945	KS1	50	
Chloroform	< 0.0272	0.0272		mg/Kg dry	0.0272	01/02/20 18:47	B9L0945	KS1	50	
cis-1,2-Dichloroethene	< 0.0300	0.0300		mg/Kg dry	0.0300	01/02/20 18:47	B9L0945	KS1	50	
Dibromochloromethane	< 0.0238	0.0250		mg/Kg dry	0.0238	01/02/20 18:47	B9L0945	KS1	50	
Ethylbenzene	< 0.0187	0.0250		mg/Kg dry	0.0187	01/02/20 18:47	B9L0945	KS1	50	
m,p-Xylene	< 0.0931	0.0931		mg/Kg dry	0.0931	01/02/20 18:47	B9L0945	KS1	50	
Methyl tert-butyl ether	< 0.0219	0.0250		mg/Kg dry	0.0219	01/02/20 18:47	B9L0945	KS1	50	
Methylene chloride	< 0.0512	0.0512		mg/Kg dry	0.0512	01/02/20 18:47	B9L0945	KS1	50	
o-Xylene	< 0.0129	0.0250		mg/Kg dry	0.0129	01/02/20 18:47	B9L0945	KS1	50	
Styrene	< 0.0187	0.0250		mg/Kg dry	0.0187	01/02/20 18:47	B9L0945	KS1	50	
Tetrachloroethene	< 0.0227	0.0250		mg/Kg dry	0.0227	01/02/20 18:47	B9L0945	KS1	50	
Toluene	< 0.0170	0.0250		mg/Kg dry	0.0170	01/02/20 18:47	B9L0945	KS1	50	
trans-1,2-Dichloroethene	< 0.0413	0.0413		mg/Kg dry	0.0413	01/02/20 18:47	B9L0945	KS1	50	
Trichloroethene	< 0.0151	0.0250		mg/Kg dry	0.0151	01/02/20 18:47	B9L0945	KS1	50	
Vinyl acetate	< 0.0336	0.0336		mg/Kg dry	0.0336	01/02/20 18:47	B9L0945	KS1	50	
Vinyl chloride	< 0.0207	0.0250		mg/Kg dry	0.0207	01/02/20 18:47	B9L0945	KS1	50	
Xylenes, Total	< 0.106	0.106		mg/Kg dry	0.106	01/02/20 18:47	B9L0945	KS1	50	

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-6 14'-15'
Report Date: 01/07/2020
Collection Date: 12/19/2019 10:15
Matrix: Soil
Lab ID: 19L0752-08 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)										
1,2-Dichloroethene, Total	< 0.0714	0.0714			mg/Kg dry	0.0714	01/02/20 18:47	B9L0945	KS1	50
Surrogate: Dibromofluoromethane					Recovery: 101%	Limits: 78-137	01/02/20 18:47	B9L0945	KS1	50
Surrogate: 1,2-Dichloroethane-d4					Recovery: 104%	Limits: 86-137	01/02/20 18:47	B9L0945	KS1	50
Surrogate: Fluorobenzene					Recovery: 99%	Limits: 80-120	01/02/20 18:47	B9L0945	KS1	50
Surrogate: Toluene-d8					Recovery: 93%	Limits: 73-112	01/02/20 18:47	B9L0945	KS1	50
Surrogate: 4-Bromofluorobenzene					Recovery: 105%	Limits: 85-120	01/02/20 18:47	B9L0945	KS1	50
Surrogate: 1,2-Dichlorobenzene-d4					Recovery: 109%	Limits: 85-128	01/02/20 18:47	B9L0945	KS1	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-7 3'-4'
Report Date: 01/07/2020
Collection Date: 12/19/2019 11:00
Matrix: Soil
Lab ID: 19L0752-09

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	87.4	0.100		% (Percent)	0.00500	12/26/19 08:15	B9L0791	TB2	1	
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 0.0239	0.0250		mg/Kg dry	0.0239	01/02/20 19:12	B9L0945	KS1	50	
1,1,2,2-Tetrachloroethane	< 0.0231	0.0250		mg/Kg dry	0.0231	01/02/20 19:12	B9L0945	KS1	50	
1,1,2-Trichloroethane	< 0.0237	0.0250		mg/Kg dry	0.0237	01/02/20 19:12	B9L0945	KS1	50	
1,1-Dichloroethane	< 0.0359	0.0359		mg/Kg dry	0.0359	01/02/20 19:12	B9L0945	KS1	50	
1,1-Dichloroethene	< 0.0281	0.0281		mg/Kg dry	0.0281	01/02/20 19:12	B9L0945	KS1	50	
1,2,4-Trimethylbenzene	< 0.0139	0.0250		mg/Kg dry	0.0139	01/02/20 19:12	B9L0945	KS1	50	
1,2-Dibromo-3-chloropropane	< 0.0393	0.0393		mg/Kg dry	0.0393	01/02/20 19:12	B9L0945	KS1	50	
1,2-Dibromoethane	< 0.0120	0.0250		mg/Kg dry	0.0120	01/02/20 19:12	B9L0945	KS1	50	
1,2-Dichloroethane	< 0.00870	0.0250		mg/Kg dry	0.00870	01/02/20 19:12	B9L0945	KS1	50	
1,2-Dichloropropane	< 0.0161	0.0250		mg/Kg dry	0.0161	01/02/20 19:12	B9L0945	KS1	50	
1,3,5-Trimethylbenzene	< 0.0136	0.0250		mg/Kg dry	0.0136	01/02/20 19:12	B9L0945	KS1	50	
1-Butanol	< 0.411	0.411		mg/Kg dry	0.411	01/02/20 19:12	B9L0945	KS1	50	
2-Butanone	< 0.102	0.102		mg/Kg dry	0.102	01/02/20 19:12	B9L0945	KS1	50	
2-Hexanone	< 0.0705	0.0705		mg/Kg dry	0.0705	01/02/20 19:12	B9L0945	KS1	50	
4-Methyl-2-pentanone	< 0.0475	0.0475		mg/Kg dry	0.0475	01/02/20 19:12	B9L0945	KS1	50	
Acetone	< 0.175	0.175		mg/Kg dry	0.175	01/02/20 19:12	B9L0945	KS1	50	
Acrylonitrile	< 0.0504	0.0504		mg/Kg dry	0.0504	01/02/20 19:12	B9L0945	KS1	50	
Benzene	< 0.0103	0.0250		mg/Kg dry	0.0103	01/02/20 19:12	B9L0945	KS1	50	
Bromodichloromethane	< 0.0154	0.0250		mg/Kg dry	0.0154	01/02/20 19:12	B9L0945	KS1	50	
Bromoform	< 0.0168	0.0250		mg/Kg dry	0.0168	01/02/20 19:12	B9L0945	KS1	50	
Carbon disulfide	< 0.0125	0.0250		mg/Kg dry	0.0125	01/02/20 19:12	B9L0945	KS1	50	
Carbon tetrachloride	< 0.0108	0.0250		mg/Kg dry	0.0108	01/02/20 19:12	B9L0945	KS1	50	
Chlorobenzene	< 0.0119	0.0250		mg/Kg dry	0.0119	01/02/20 19:12	B9L0945	KS1	50	
Chloroform	< 0.0223	0.0250		mg/Kg dry	0.0223	01/02/20 19:12	B9L0945	KS1	50	
cis-1,2-Dichloroethene	< 0.0246	0.0250		mg/Kg dry	0.0246	01/02/20 19:12	B9L0945	KS1	50	
Dibromochloromethane	< 0.0195	0.0250		mg/Kg dry	0.0195	01/02/20 19:12	B9L0945	KS1	50	
Ethylbenzene	< 0.0153	0.0250		mg/Kg dry	0.0153	01/02/20 19:12	B9L0945	KS1	50	
m,p-Xylene	< 0.0763	0.0763		mg/Kg dry	0.0763	01/02/20 19:12	B9L0945	KS1	50	
Methyl tert-butyl ether	< 0.0179	0.0250		mg/Kg dry	0.0179	01/02/20 19:12	B9L0945	KS1	50	
Methylene chloride	< 0.0420	0.0420		mg/Kg dry	0.0420	01/02/20 19:12	B9L0945	KS1	50	
o-Xylene	< 0.0106	0.0250		mg/Kg dry	0.0106	01/02/20 19:12	B9L0945	KS1	50	
Styrene	< 0.0153	0.0250		mg/Kg dry	0.0153	01/02/20 19:12	B9L0945	KS1	50	
Tetrachloroethene	0.0584	0.0250		mg/Kg dry	0.0186	01/02/20 19:12	B9L0945	KS1	50	
Toluene	< 0.0139	0.0250		mg/Kg dry	0.0139	01/02/20 19:12	B9L0945	KS1	50	
trans-1,2-Dichloroethene	< 0.0339	0.0339		mg/Kg dry	0.0339	01/02/20 19:12	B9L0945	KS1	50	
Trichloroethene	< 0.0124	0.0250		mg/Kg dry	0.0124	01/02/20 19:12	B9L0945	KS1	50	
Vinyl acetate	< 0.0275	0.0275		mg/Kg dry	0.0275	01/02/20 19:12	B9L0945	KS1	50	
Vinyl chloride	< 0.0170	0.0250		mg/Kg dry	0.0170	01/02/20 19:12	B9L0945	KS1	50	
Xylenes, Total	< 0.0869	0.0869		mg/Kg dry	0.0869	01/02/20 19:12	B9L0945	KS1	50	

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-7 3'-4'
Report Date: 01/07/2020
Collection Date: 12/19/2019 11:00
Matrix: Soil
Lab ID: 19L0752-09 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)										
1,2-Dichloroethene, Total	< 0.0584	0.0584			mg/Kg dry	0.0584	01/02/20 19:12	B9L0945	KS1	50
Surrogate: Dibromofluoromethane					Recovery: 94%	Limits: 78-137	01/02/20 19:12	B9L0945	KS1	50
Surrogate: 1,2-Dichloroethane-d4					Recovery: 98%	Limits: 86-137	01/02/20 19:12	B9L0945	KS1	50
Surrogate: Fluorobenzene					Recovery: 96%	Limits: 80-120	01/02/20 19:12	B9L0945	KS1	50
Surrogate: Toluene-d8					Recovery: 93%	Limits: 73-112	01/02/20 19:12	B9L0945	KS1	50
Surrogate: 4-Bromofluorobenzene					Recovery: 102%	Limits: 85-120	01/02/20 19:12	B9L0945	KS1	50
Surrogate: 1,2-Dichlorobenzene-d4					Recovery: 111%	Limits: 85-128	01/02/20 19:12	B9L0945	KS1	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-7 10'-11'
Report Date: 01/07/2020
Collection Date: 12/19/2019 11:15
Matrix: Soil
Lab ID: 19L0752-10

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	96.3	0.100		% (Percent)	0.00500	12/26/19 08:15	B9L0791	TB2	1	
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 0.0257	0.0257		mg/Kg dry	0.0257	01/02/20 19:37	B9L0945	KS1	50	
1,1,2,2-Tetrachloroethane	< 0.0248	0.0250		mg/Kg dry	0.0248	01/02/20 19:37	B9L0945	KS1	50	
1,1,2-Trichloroethane	< 0.0255	0.0255		mg/Kg dry	0.0255	01/02/20 19:37	B9L0945	KS1	50	
1,1-Dichloroethane	< 0.0386	0.0386		mg/Kg dry	0.0386	01/02/20 19:37	B9L0945	KS1	50	
1,1-Dichloroethene	< 0.0302	0.0302		mg/Kg dry	0.0302	01/02/20 19:37	B9L0945	KS1	50	
1,2,4-Trimethylbenzene	< 0.0149	0.0250		mg/Kg dry	0.0149	01/02/20 19:37	B9L0945	KS1	50	
1,2-Dibromo-3-chloropropane	< 0.0423	0.0423		mg/Kg dry	0.0423	01/02/20 19:37	B9L0945	KS1	50	
1,2-Dibromoethane	< 0.0129	0.0250		mg/Kg dry	0.0129	01/02/20 19:37	B9L0945	KS1	50	
1,2-Dichloroethane	< 0.00937	0.0250		mg/Kg dry	0.00937	01/02/20 19:37	B9L0945	KS1	50	
1,2-Dichloropropane	< 0.0173	0.0250		mg/Kg dry	0.0173	01/02/20 19:37	B9L0945	KS1	50	
1,3,5-Trimethylbenzene	< 0.0146	0.0250		mg/Kg dry	0.0146	01/02/20 19:37	B9L0945	KS1	50	
1-Butanol	< 0.442	0.442		mg/Kg dry	0.442	01/02/20 19:37	B9L0945	KS1	50	
2-Butanone	< 0.110	0.110		mg/Kg dry	0.110	01/02/20 19:37	B9L0945	KS1	50	
2-Hexanone	< 0.0759	0.0759		mg/Kg dry	0.0759	01/02/20 19:37	B9L0945	KS1	50	
4-Methyl-2-pentanone	< 0.0511	0.0511		mg/Kg dry	0.0511	01/02/20 19:37	B9L0945	KS1	50	
Acetone	< 0.189	0.189		mg/Kg dry	0.189	01/02/20 19:37	B9L0945	KS1	50	
Acrylonitrile	< 0.0542	0.0542		mg/Kg dry	0.0542	01/02/20 19:37	B9L0945	KS1	50	
Benzene	< 0.0111	0.0250		mg/Kg dry	0.0111	01/02/20 19:37	B9L0945	KS1	50	
Bromodichloromethane	< 0.0166	0.0250		mg/Kg dry	0.0166	01/02/20 19:37	B9L0945	KS1	50	
Bromoform	< 0.0180	0.0250		mg/Kg dry	0.0180	01/02/20 19:37	B9L0945	KS1	50	
Carbon disulfide	< 0.0135	0.0250		mg/Kg dry	0.0135	01/02/20 19:37	B9L0945	KS1	50	
Carbon tetrachloride	< 0.0117	0.0250		mg/Kg dry	0.0117	01/02/20 19:37	B9L0945	KS1	50	
Chlorobenzene	< 0.0128	0.0250		mg/Kg dry	0.0128	01/02/20 19:37	B9L0945	KS1	50	
Chloroform	< 0.0240	0.0250		mg/Kg dry	0.0240	01/02/20 19:37	B9L0945	KS1	50	
cis-1,2-Dichloroethene	< 0.0265	0.0265		mg/Kg dry	0.0265	01/02/20 19:37	B9L0945	KS1	50	
Dibromochloromethane	< 0.0210	0.0250		mg/Kg dry	0.0210	01/02/20 19:37	B9L0945	KS1	50	
Ethylbenzene	< 0.0165	0.0250		mg/Kg dry	0.0165	01/02/20 19:37	B9L0945	KS1	50	
m,p-Xylene	< 0.0821	0.0821		mg/Kg dry	0.0821	01/02/20 19:37	B9L0945	KS1	50	
Methyl tert-butyl ether	< 0.0193	0.0250		mg/Kg dry	0.0193	01/02/20 19:37	B9L0945	KS1	50	
Methylene chloride	< 0.0452	0.0452		mg/Kg dry	0.0452	01/02/20 19:37	B9L0945	KS1	50	
o-Xylene	< 0.0114	0.0250		mg/Kg dry	0.0114	01/02/20 19:37	B9L0945	KS1	50	
Styrene	< 0.0165	0.0250		mg/Kg dry	0.0165	01/02/20 19:37	B9L0945	KS1	50	
Tetrachloroethene	0.258	0.0250		mg/Kg dry	0.0200	01/02/20 19:37	B9L0945	KS1	50	
Toluene	< 0.0150	0.0250		mg/Kg dry	0.0150	01/02/20 19:37	B9L0945	KS1	50	
trans-1,2-Dichloroethene	< 0.0364	0.0364		mg/Kg dry	0.0364	01/02/20 19:37	B9L0945	KS1	50	
Trichloroethene	< 0.0133	0.0250		mg/Kg dry	0.0133	01/02/20 19:37	B9L0945	KS1	50	
Vinyl acetate	< 0.0296	0.0296		mg/Kg dry	0.0296	01/02/20 19:37	B9L0945	KS1	50	
Vinyl chloride	< 0.0182	0.0250		mg/Kg dry	0.0182	01/02/20 19:37	B9L0945	KS1	50	
Xylenes, Total	< 0.0935	0.0935		mg/Kg dry	0.0935	01/02/20 19:37	B9L0945	KS1	50	

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-7 10'-11'
Report Date: 01/07/2020
Collection Date: 12/19/2019 11:15
Matrix: Soil
Lab ID: 19L0752-10 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)										
1,2-Dichloroethene, Total	< 0.0629	0.0629			mg/Kg dry	0.0629	01/02/20 19:37	B9L0945	KS1	50
Surrogate: Dibromofluoromethane					Recovery: 102%	Limits: 78-137	01/02/20 19:37	B9L0945	KS1	50
Surrogate: 1,2-Dichloroethane-d4					Recovery: 102%	Limits: 86-137	01/02/20 19:37	B9L0945	KS1	50
Surrogate: Fluorobenzene					Recovery: 100%	Limits: 80-120	01/02/20 19:37	B9L0945	KS1	50
Surrogate: Toluene-d8					Recovery: 99%	Limits: 73-112	01/02/20 19:37	B9L0945	KS1	50
Surrogate: 4-Bromofluorobenzene					Recovery: 110%	Limits: 85-120	01/02/20 19:37	B9L0945	KS1	50
Surrogate: 1,2-Dichlorobenzene-d4					Recovery: 115%	Limits: 85-128	01/02/20 19:37	B9L0945	KS1	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-7 14'-15'
Report Date: 01/07/2020
Collection Date: 12/19/2019 11:30
Matrix: Soil
Lab ID: 19L0752-11

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	95.7	0.100		% (Percent)	0.00500	12/26/19 08:15	B9L0791	TB2	1	
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 0.0252	0.0252		mg/Kg dry	0.0252	01/02/20 20:02	B9L0945	KS1	50	
1,1,2,2-Tetrachloroethane	< 0.0244	0.0250		mg/Kg dry	0.0244	01/02/20 20:02	B9L0945	KS1	50	
1,1,2-Trichloroethane	< 0.0251	0.0251		mg/Kg dry	0.0251	01/02/20 20:02	B9L0945	KS1	50	
1,1-Dichloroethane	< 0.0379	0.0379		mg/Kg dry	0.0379	01/02/20 20:02	B9L0945	KS1	50	
1,1-Dichloroethene	< 0.0297	0.0297		mg/Kg dry	0.0297	01/02/20 20:02	B9L0945	KS1	50	
1,2,4-Trimethylbenzene	< 0.0146	0.0250		mg/Kg dry	0.0146	01/02/20 20:02	B9L0945	KS1	50	
1,2-Dibromo-3-chloropropane	< 0.0415	0.0415		mg/Kg dry	0.0415	01/02/20 20:02	B9L0945	KS1	50	
1,2-Dibromoethane	< 0.0127	0.0250		mg/Kg dry	0.0127	01/02/20 20:02	B9L0945	KS1	50	
1,2-Dichloroethane	< 0.00920	0.0250		mg/Kg dry	0.00920	01/02/20 20:02	B9L0945	KS1	50	
1,2-Dichloropropane	< 0.0170	0.0250		mg/Kg dry	0.0170	01/02/20 20:02	B9L0945	KS1	50	
1,3,5-Trimethylbenzene	< 0.0143	0.0250		mg/Kg dry	0.0143	01/02/20 20:02	B9L0945	KS1	50	
1-Butanol	< 0.434	0.434		mg/Kg dry	0.434	01/02/20 20:02	B9L0945	KS1	50	
2-Butanone	< 0.108	0.108		mg/Kg dry	0.108	01/02/20 20:02	B9L0945	KS1	50	
2-Hexanone	< 0.0745	0.0745		mg/Kg dry	0.0745	01/02/20 20:02	B9L0945	KS1	50	
4-Methyl-2-pentanone	< 0.0502	0.0502		mg/Kg dry	0.0502	01/02/20 20:02	B9L0945	KS1	50	
Acetone	< 0.185	0.185		mg/Kg dry	0.185	01/02/20 20:02	B9L0945	KS1	50	
Acrylonitrile	< 0.0533	0.0533		mg/Kg dry	0.0533	01/02/20 20:02	B9L0945	KS1	50	
Benzene	< 0.0109	0.0250		mg/Kg dry	0.0109	01/02/20 20:02	B9L0945	KS1	50	
Bromodichloromethane	< 0.0163	0.0250		mg/Kg dry	0.0163	01/02/20 20:02	B9L0945	KS1	50	
Bromoform	< 0.0177	0.0250		mg/Kg dry	0.0177	01/02/20 20:02	B9L0945	KS1	50	
Carbon disulfide	< 0.0133	0.0250		mg/Kg dry	0.0133	01/02/20 20:02	B9L0945	KS1	50	
Carbon tetrachloride	< 0.0115	0.0250		mg/Kg dry	0.0115	01/02/20 20:02	B9L0945	KS1	50	
Chlorobenzene	< 0.0126	0.0250		mg/Kg dry	0.0126	01/02/20 20:02	B9L0945	KS1	50	
Chloroform	< 0.0236	0.0250		mg/Kg dry	0.0236	01/02/20 20:02	B9L0945	KS1	50	
cis-1,2-Dichloroethene	< 0.0260	0.0260		mg/Kg dry	0.0260	01/02/20 20:02	B9L0945	KS1	50	
Dibromochloromethane	< 0.0206	0.0250		mg/Kg dry	0.0206	01/02/20 20:02	B9L0945	KS1	50	
Ethylbenzene	< 0.0162	0.0250		mg/Kg dry	0.0162	01/02/20 20:02	B9L0945	KS1	50	
m,p-Xylene	< 0.0806	0.0806		mg/Kg dry	0.0806	01/02/20 20:02	B9L0945	KS1	50	
Methyl tert-butyl ether	< 0.0189	0.0250		mg/Kg dry	0.0189	01/02/20 20:02	B9L0945	KS1	50	
Methylene chloride	< 0.0444	0.0444		mg/Kg dry	0.0444	01/02/20 20:02	B9L0945	KS1	50	
o-Xylene	< 0.0112	0.0250		mg/Kg dry	0.0112	01/02/20 20:02	B9L0945	KS1	50	
Styrene	< 0.0162	0.0250		mg/Kg dry	0.0162	01/02/20 20:02	B9L0945	KS1	50	
Tetrachloroethene	0.0707	0.0250		mg/Kg dry	0.0197	01/02/20 20:02	B9L0945	KS1	50	
Toluene	< 0.0147	0.0250		mg/Kg dry	0.0147	01/02/20 20:02	B9L0945	KS1	50	
trans-1,2-Dichloroethene	< 0.0358	0.0358		mg/Kg dry	0.0358	01/02/20 20:02	B9L0945	KS1	50	
Trichloroethene	< 0.0131	0.0250		mg/Kg dry	0.0131	01/02/20 20:02	B9L0945	KS1	50	
Vinyl acetate	< 0.0291	0.0291		mg/Kg dry	0.0291	01/02/20 20:02	B9L0945	KS1	50	
Vinyl chloride	< 0.0179	0.0250		mg/Kg dry	0.0179	01/02/20 20:02	B9L0945	KS1	50	
Xylenes, Total	< 0.0918	0.0918		mg/Kg dry	0.0918	01/02/20 20:02	B9L0945	KS1	50	

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-7 14'-15'
Report Date: 01/07/2020
Collection Date: 12/19/2019 11:30
Matrix: Soil
Lab ID: 19L0752-11 (Continued)

Analyses	EMT Reporting			MDL	Date/Time Analyzed	Batch	Analyst	DF
	Result	Limit	Qual Units					
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)								
1,2-Dichloroethene, Total	< 0.0618	0.0618	mg/Kg dry	0.0618	01/02/20 20:02	B9L0945	KS1	50
<i>Surrogate: Dibromofluoromethane</i>			<i>Recovery: 101%</i>	<i>Limits: 78-137</i>	<i>01/02/20 20:02</i>	<i>B9L0945</i>	<i>KS1</i>	<i>50</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>			<i>Recovery: 105%</i>	<i>Limits: 86-137</i>	<i>01/02/20 20:02</i>	<i>B9L0945</i>	<i>KS1</i>	<i>50</i>
<i>Surrogate: Fluorobenzene</i>			<i>Recovery: 98%</i>	<i>Limits: 80-120</i>	<i>01/02/20 20:02</i>	<i>B9L0945</i>	<i>KS1</i>	<i>50</i>
<i>Surrogate: Toluene-d8</i>			<i>Recovery: 97%</i>	<i>Limits: 73-112</i>	<i>01/02/20 20:02</i>	<i>B9L0945</i>	<i>KS1</i>	<i>50</i>
<i>Surrogate: 4-Bromofluorobenzene</i>			<i>Recovery: 102%</i>	<i>Limits: 85-120</i>	<i>01/02/20 20:02</i>	<i>B9L0945</i>	<i>KS1</i>	<i>50</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>			<i>Recovery: 102%</i>	<i>Limits: 85-128</i>	<i>01/02/20 20:02</i>	<i>B9L0945</i>	<i>KS1</i>	<i>50</i>

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-8 3'-4'
Report Date: 01/07/2020
Collection Date: 12/19/2019 12:00
Matrix: Soil
Lab ID: 19L0752-12

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Wet Chemistry										
Method: SM2540G										
Total Solids	85.0	0.100			% (Percent)	0.00500	12/26/19 08:15	B9L0791	TB2	1
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 0.0263	0.0263			mg/Kg dry	0.0263	01/02/20 20:27	B9L0945	KS1	50
1,1,2,2-Tetrachloroethane	< 0.0254	0.0254			mg/Kg dry	0.0254	01/02/20 20:27	B9L0945	KS1	50
1,1,2-Trichloroethane	< 0.0261	0.0261			mg/Kg dry	0.0261	01/02/20 20:27	B9L0945	KS1	50
1,1-Dichloroethane	< 0.0396	0.0396			mg/Kg dry	0.0396	01/02/20 20:27	B9L0945	KS1	50
1,1-Dichloroethene	< 0.0310	0.0310			mg/Kg dry	0.0310	01/02/20 20:27	B9L0945	KS1	50
1,2,4-Trimethylbenzene	< 0.0153	0.0250			mg/Kg dry	0.0153	01/02/20 20:27	B9L0945	KS1	50
1,2-Dibromo-3-chloropropane	< 0.0433	0.0433			mg/Kg dry	0.0433	01/02/20 20:27	B9L0945	KS1	50
1,2-Dibromoethane	< 0.0133	0.0250			mg/Kg dry	0.0133	01/02/20 20:27	B9L0945	KS1	50
1,2-Dichloroethane	< 0.00960	0.0250			mg/Kg dry	0.00960	01/02/20 20:27	B9L0945	KS1	50
1,2-Dichloropropane	< 0.0178	0.0250			mg/Kg dry	0.0178	01/02/20 20:27	B9L0945	KS1	50
1,3,5-Trimethylbenzene	< 0.0150	0.0250			mg/Kg dry	0.0150	01/02/20 20:27	B9L0945	KS1	50
1-Butanol	< 0.453	0.453			mg/Kg dry	0.453	01/02/20 20:27	B9L0945	KS1	50
2-Butanone	< 0.113	0.113			mg/Kg dry	0.113	01/02/20 20:27	B9L0945	KS1	50
2-Hexanone	< 0.0778	0.0778			mg/Kg dry	0.0778	01/02/20 20:27	B9L0945	KS1	50
4-Methyl-2-pentanone	< 0.0524	0.0524			mg/Kg dry	0.0524	01/02/20 20:27	B9L0945	KS1	50
Acetone	< 0.193	0.193			mg/Kg dry	0.193	01/02/20 20:27	B9L0945	KS1	50
Acrylonitrile	< 0.0556	0.0556			mg/Kg dry	0.0556	01/02/20 20:27	B9L0945	KS1	50
Benzene	< 0.0114	0.0250			mg/Kg dry	0.0114	01/02/20 20:27	B9L0945	KS1	50
Bromodichloromethane	< 0.0170	0.0250			mg/Kg dry	0.0170	01/02/20 20:27	B9L0945	KS1	50
Bromoform	< 0.0185	0.0250			mg/Kg dry	0.0185	01/02/20 20:27	B9L0945	KS1	50
Carbon disulfide	< 0.0138	0.0250			mg/Kg dry	0.0138	01/02/20 20:27	B9L0945	KS1	50
Carbon tetrachloride	< 0.0120	0.0250			mg/Kg dry	0.0120	01/02/20 20:27	B9L0945	KS1	50
Chlorobenzene	< 0.0132	0.0250			mg/Kg dry	0.0132	01/02/20 20:27	B9L0945	KS1	50
Chloroform	< 0.0246	0.0250			mg/Kg dry	0.0246	01/02/20 20:27	B9L0945	KS1	50
cis-1,2-Dichloroethene	< 0.0271	0.0271			mg/Kg dry	0.0271	01/02/20 20:27	B9L0945	KS1	50
Dibromochloromethane	< 0.0215	0.0250			mg/Kg dry	0.0215	01/02/20 20:27	B9L0945	KS1	50
Ethylbenzene	< 0.0169	0.0250			mg/Kg dry	0.0169	01/02/20 20:27	B9L0945	KS1	50
m,p-Xylene	< 0.0841	0.0841			mg/Kg dry	0.0841	01/02/20 20:27	B9L0945	KS1	50
Methyl tert-butyl ether	< 0.0198	0.0250			mg/Kg dry	0.0198	01/02/20 20:27	B9L0945	KS1	50
Methylene chloride	< 0.0463	0.0463			mg/Kg dry	0.0463	01/02/20 20:27	B9L0945	KS1	50
o-Xylene	< 0.0117	0.0250			mg/Kg dry	0.0117	01/02/20 20:27	B9L0945	KS1	50
Styrene	< 0.0169	0.0250			mg/Kg dry	0.0169	01/02/20 20:27	B9L0945	KS1	50
Tetrachloroethene	< 0.0205	0.0250			mg/Kg dry	0.0205	01/02/20 20:27	B9L0945	KS1	50
Toluene	< 0.0154	0.0250			mg/Kg dry	0.0154	01/02/20 20:27	B9L0945	KS1	50
trans-1,2-Dichloroethene	< 0.0373	0.0373			mg/Kg dry	0.0373	01/02/20 20:27	B9L0945	KS1	50
Trichloroethene	< 0.0137	0.0250			mg/Kg dry	0.0137	01/02/20 20:27	B9L0945	KS1	50
Vinyl acetate	< 0.0303	0.0303			mg/Kg dry	0.0303	01/02/20 20:27	B9L0945	KS1	50
Vinyl chloride	< 0.0187	0.0250			mg/Kg dry	0.0187	01/02/20 20:27	B9L0945	KS1	50
Xylenes, Total	< 0.0958	0.0958			mg/Kg dry	0.0958	01/02/20 20:27	B9L0945	KS1	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-8 3'-4'
Report Date: 01/07/2020
Collection Date: 12/19/2019 12:00
Matrix: Soil
Lab ID: 19L0752-12 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)										
1,2-Dichloroethene, Total	< 0.0645	0.0645			mg/Kg dry	0.0645	01/02/20 20:27	B9L0945	KS1	50
Surrogate: Dibromofluoromethane					Recovery: 96%	Limits: 78-137	01/02/20 20:27	B9L0945	KS1	50
Surrogate: 1,2-Dichloroethane-d4					Recovery: 98%	Limits: 86-137	01/02/20 20:27	B9L0945	KS1	50
Surrogate: Fluorobenzene					Recovery: 100%	Limits: 80-120	01/02/20 20:27	B9L0945	KS1	50
Surrogate: Toluene-d8					Recovery: 95%	Limits: 73-112	01/02/20 20:27	B9L0945	KS1	50
Surrogate: 4-Bromofluorobenzene					Recovery: 108%	Limits: 85-120	01/02/20 20:27	B9L0945	KS1	50
Surrogate: 1,2-Dichlorobenzene-d4					Recovery: 115%	Limits: 85-128	01/02/20 20:27	B9L0945	KS1	50

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-8 14'-15'
Report Date: 01/07/2020
Collection Date: 12/19/2019 12:15
Matrix: Soil
Lab ID: 19L0752-13

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SM2540G										
Total Solids	93.6	0.100		% (Percent)	0.00500	12/26/19 08:15	B9L0791	TB2	1	
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140										
1,1,1-Trichloroethane	< 0.000427	0.0250		mg/Kg dry	0.000427	01/02/20 20:57	B9L0945	KS1	1	
1,1,2,2-Tetrachloroethane	< 0.000413	0.0250		mg/Kg dry	0.000413	01/02/20 20:57	B9L0945	KS1	1	
1,1,2-Trichloroethane	< 0.000424	0.0250		mg/Kg dry	0.000424	01/02/20 20:57	B9L0945	KS1	1	
1,1-Dichloroethane	< 0.000642	0.0250		mg/Kg dry	0.000642	01/02/20 20:57	B9L0945	KS1	1	
1,1-Dichloroethene	< 0.000502	0.0250		mg/Kg dry	0.000502	01/02/20 20:57	B9L0945	KS1	1	
1,2,4-Trimethylbenzene	< 0.000248	0.0250		mg/Kg dry	0.000248	01/02/20 20:57	B9L0945	KS1	1	
1,2-Dibromo-3-chloropropane	< 0.000703	0.0250		mg/Kg dry	0.000703	01/02/20 20:57	B9L0945	KS1	1	
1,2-Dibromoethane	< 0.000215	0.0250		mg/Kg dry	0.000215	01/02/20 20:57	B9L0945	KS1	1	
1,2-Dichloroethane	< 0.000156	0.0250		mg/Kg dry	0.000156	01/02/20 20:57	B9L0945	KS1	1	
1,2-Dichloropropane	< 0.000288	0.0250		mg/Kg dry	0.000288	01/02/20 20:57	B9L0945	KS1	1	
1,3,5-Trimethylbenzene	< 0.000243	0.0250		mg/Kg dry	0.000243	01/02/20 20:57	B9L0945	KS1	1	
1-Butanol	< 0.00735	0.0250		mg/Kg dry	0.00735	01/02/20 20:57	B9L0945	KS1	1	
2-Butanone	< 0.00183	0.0250		mg/Kg dry	0.00183	01/02/20 20:57	B9L0945	KS1	1	
2-Hexanone	< 0.00126	0.0250		mg/Kg dry	0.00126	01/02/20 20:57	B9L0945	KS1	1	
4-Methyl-2-pentanone	< 0.000849	0.0250		mg/Kg dry	0.000849	01/02/20 20:57	B9L0945	KS1	1	
Acetone	< 0.00313	0.0250		mg/Kg dry	0.00313	01/02/20 20:57	B9L0945	KS1	1	
Acrylonitrile	< 0.000901	0.0250		mg/Kg dry	0.000901	01/02/20 20:57	B9L0945	KS1	1	
Benzene	< 0.000185	0.0250		mg/Kg dry	0.000185	01/02/20 20:57	B9L0945	KS1	1	
Bromodichloromethane	< 0.000276	0.0250		mg/Kg dry	0.000276	01/02/20 20:57	B9L0945	KS1	1	
Bromoform	< 0.000300	0.0250		mg/Kg dry	0.000300	01/02/20 20:57	B9L0945	KS1	1	
Carbon disulfide	< 0.000224	0.0250		mg/Kg dry	0.000224	01/02/20 20:57	B9L0945	KS1	1	
Carbon tetrachloride	< 0.000194	0.0250		mg/Kg dry	0.000194	01/02/20 20:57	B9L0945	KS1	1	
Chlorobenzene	< 0.000213	0.0250		mg/Kg dry	0.000213	01/02/20 20:57	B9L0945	KS1	1	
Chloroform	< 0.000399	0.0250		mg/Kg dry	0.000399	01/02/20 20:57	B9L0945	KS1	1	
cis-1,2-Dichloroethene	< 0.000440	0.0250		mg/Kg dry	0.000440	01/02/20 20:57	B9L0945	KS1	1	
Dibromochloromethane	< 0.000349	0.0250		mg/Kg dry	0.000349	01/02/20 20:57	B9L0945	KS1	1	
Ethylbenzene	< 0.000274	0.0250		mg/Kg dry	0.000274	01/02/20 20:57	B9L0945	KS1	1	
m,p-Xylene	< 0.00136	0.0250		mg/Kg dry	0.00136	01/02/20 20:57	B9L0945	KS1	1	
Methyl tert-butyl ether	< 0.000320	0.0250		mg/Kg dry	0.000320	01/02/20 20:57	B9L0945	KS1	1	
Methylene chloride	< 0.000751	0.0250		mg/Kg dry	0.000751	01/02/20 20:57	B9L0945	KS1	1	
o-Xylene	< 0.000190	0.0250		mg/Kg dry	0.000190	01/02/20 20:57	B9L0945	KS1	1	
Styrene	< 0.000274	0.0250		mg/Kg dry	0.000274	01/02/20 20:57	B9L0945	KS1	1	
Tetrachloroethene	< 0.000332	0.0250		mg/Kg dry	0.000332	01/02/20 20:57	B9L0945	KS1	1	
Toluene	< 0.000249	0.0250		mg/Kg dry	0.000249	01/02/20 20:57	B9L0945	KS1	1	
trans-1,2-Dichloroethene	< 0.000605	0.0250		mg/Kg dry	0.000605	01/02/20 20:57	B9L0945	KS1	1	
Trichloroethene	< 0.000221	0.0250		mg/Kg dry	0.000221	01/02/20 20:57	B9L0945	KS1	1	
Vinyl acetate	< 0.000492	0.0250		mg/Kg dry	0.000492	01/02/20 20:57	B9L0945	KS1	1	
Vinyl chloride	< 0.000303	0.0250		mg/Kg dry	0.000303	01/02/20 20:57	B9L0945	KS1	1	
Xylenes, Total	< 0.00155	0.0250		mg/Kg dry	0.00155	01/02/20 20:57	B9L0945	KS1	1	

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Client Sample ID: GP-8 14'-15'
Report Date: 01/07/2020
Collection Date: 12/19/2019 12:15
Matrix: Soil
Lab ID: 19L0752-13 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Method: SW-846 8260B/WDNR: PUBL-FW-140 (Continued)										
1,2-Dichloroethene, Total	< 0.00105	0.0250			mg/Kg dry	0.00105	01/02/20 20:57	B9L0945	KS1	1
Surrogate: Dibromofluoromethane					Recovery: 98%	Limits: 78-137	01/02/20 20:57	B9L0945	KS1	1
Surrogate: 1,2-Dichloroethane-d4					Recovery: 99%	Limits: 86-137	01/02/20 20:57	B9L0945	KS1	1
Surrogate: Fluorobenzene					Recovery: 97%	Limits: 80-120	01/02/20 20:57	B9L0945	KS1	1
Surrogate: Toluene-d8					Recovery: 96%	Limits: 73-112	01/02/20 20:57	B9L0945	KS1	1
Surrogate: 4-Bromofluorobenzene					Recovery: 112%	Limits: 85-120	01/02/20 20:57	B9L0945	KS1	1
Surrogate: 1,2-Dichlorobenzene-d4					Recovery: 106%	Limits: 85-128	01/02/20 20:57	B9L0945	KS1	1

Dates Report

Client: United Engineering Consultants, Inc.

Report Date: 01/07/2020

Project: UEC Analysis
19006

Work Order: 19L0752

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
19L0752-01	GP-4 3'-4'	12/19/19	Soil	Total Solids / Percent Moisture		12/23/19 13:30	12/26/19 10:35	B9L0788	
				Volatile Organic Compounds (WDNR) by GC/MS		12/30/19 09:39	01/02/20 15:52	B9L0945	S0A0034
19L0752-02	GP-4 10'-11'	12/19/19		Total Solids / Percent Moisture		12/23/19 13:30	12/26/19 10:35	B9L0788	
				Volatile Organic Compounds (WDNR) by GC/MS		12/30/19 09:39	01/02/20 16:17	B9L0945	S0A0034
19L0752-03	GP-4 14'-15'	12/19/19		Total Solids / Percent Moisture		12/23/19 13:30	12/26/19 10:35	B9L0788	
				Volatile Organic Compounds (WDNR) by GC/MS		12/30/19 09:39	01/02/20 16:42	B9L0945	S0A0034
19L0752-04	GP-5 3'-4'	12/19/19		Total Solids / Percent Moisture		12/23/19 13:30	12/26/19 10:35	B9L0788	
				Volatile Organic Compounds (WDNR) by GC/MS		12/30/19 09:39	01/02/20 17:07	B9L0945	S0A0034
19L0752-05	GP-5 11'-12'	12/19/19		Total Solids / Percent Moisture		12/23/19 13:30	12/26/19 10:35	B9L0788	
				Volatile Organic Compounds (WDNR) by GC/MS		12/30/19 09:39	01/02/20 17:32	B9L0945	S0A0034
19L0752-06	GP-5 14'-15'	12/19/19		Total Solids / Percent Moisture		12/23/19 13:30	12/26/19 10:35	B9L0788	
				Volatile Organic Compounds (WDNR) by GC/MS		12/30/19 09:39	01/02/20 17:57	B9L0945	S0A0034
19L0752-07	GP-6 2'-3'	12/19/19		Total Solids / Percent Moisture		12/23/19 13:30	12/26/19 10:35	B9L0788	
				Volatile Organic Compounds (WDNR) by GC/MS		12/30/19 09:39	01/02/20 18:22	B9L0945	S0A0034
19L0752-08	GP-6 14'-15'	12/19/19		Total Solids / Percent Moisture		12/23/19 13:30	12/26/19 10:35	B9L0788	
				Volatile Organic Compounds (WDNR) by GC/MS		12/30/19 09:39	01/02/20 18:47	B9L0945	S0A0034
19L0752-09	GP-7 3'-4'	12/19/19		Total Solids / Percent Moisture		12/23/19 14:30	12/26/19 08:15	B9L0791	
				Volatile Organic Compounds (WDNR) by GC/MS		12/30/19 09:39	01/02/20 19:12	B9L0945	S0A0034
19L0752-10	GP-7 10'-11'	12/19/19		Total Solids / Percent Moisture		12/23/19 14:30	12/26/19 08:15	B9L0791	
				Volatile Organic Compounds (WDNR) by GC/MS		12/30/19 09:39	01/02/20 19:37	B9L0945	S0A0034
19L0752-11	GP-7 14'-15'	12/19/19		Total Solids / Percent Moisture		12/23/19 14:30	12/26/19 08:15	B9L0791	
				Volatile Organic Compounds (WDNR) by GC/MS		12/30/19 09:39	01/02/20 20:02	B9L0945	S0A0034
19L0752-12	GP-8 3'-4'	12/19/19		Total Solids / Percent Moisture		12/23/19 14:30	12/26/19 08:15	B9L0791	
				Volatile Organic Compounds (WDNR) by GC/MS		12/30/19 09:39	01/02/20 20:27	B9L0945	S0A0034
19L0752-13	GP-8 14'-15'	12/19/19		Total Solids / Percent Moisture		12/23/19 14:30	12/26/19 08:15	B9L0791	
				Volatile Organic Compounds (WDNR) by GC/MS		12/30/19 09:39	01/02/20 20:57	B9L0945	S0A0034

Quality Control

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0752

Report Date: 01/07/2020
Matrix: Solid

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B9L0788

Blank (B9L0788-BLK1)

Prepared: 12/23/2019 13:30 Analyzed: 12/26/2019 10:35

Total Solids	< 0.100	0.100	%								1
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LCS (B9L0788-BS1)

Prepared: 12/23/2019 13:30 Analyzed: 12/26/2019 10:35

Total Solids	0.182	0.100	%	0.2013		90.6	86.3-105				1
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Duplicate (B9L0788-DUP1)

Source: 19L0704-06

Prepared: 12/23/2019 13:30 Analyzed: 12/26/2019 10:35

Total Solids	85.9	0.100	%		85.3			0.638	5		1
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Duplicate (B9L0788-DUP2)

Source: 19L0752-08

Prepared: 12/23/2019 13:30 Analyzed: 12/26/2019 10:35

Total Solids	96.6	0.100	%		96.6			0.0219	5		1
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Batch: B9L0791

Blank (B9L0791-BLK1)

Prepared: 12/23/2019 14:30 Analyzed: 12/26/2019 08:15

Total Solids	< 0.100	0.100	%								1
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LCS (B9L0791-BS1)

Prepared: 12/23/2019 14:30 Analyzed: 12/26/2019 08:15

Total Solids	0.190	0.100	%	0.2013		94.1	86.3-105				1
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Duplicate (B9L0791-DUP1)

Source: 19L0752-12

Prepared: 12/23/2019 14:30 Analyzed: 12/26/2019 08:15

Total Solids	87.2	0.100	%		85.0			2.56	5		1
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Quality Control

(Continued)

Client: United Engineering Consultants, Inc.**Report Date:** 01/07/2020**Project:** UEC Analysis
19006**Matrix:** Solid**Work Order:** 19L0752**Volatile Organic Compounds by GC/MS**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B9L0945**Blank (B9L0945-BLK1)**

Prepared: 12/30/2019 09:39 Analyzed: 01/02/2020 15:27

1,1,1-Trichloroethane	< 0.000532	0.0250	mg/Kg wet								1
1,1,2,2-Tetrachloroethane	< 0.000514	0.0250	mg/Kg wet								1
1,1,2-Trichloroethane	< 0.000528	0.0250	mg/Kg wet								1
1,1-Dichloroethane	< 0.000799	0.0250	mg/Kg wet								1
1,1-Dichloroethene	< 0.000625	0.0250	mg/Kg wet								1
1,2,4-Trimethylbenzene	< 0.000308	0.0250	mg/Kg wet								1
1,2-Dibromo-3-chloropropane	< 0.000875	0.0250	mg/Kg wet								1
1,2-Dibromoethane	< 0.000268	0.0250	mg/Kg wet								1
1,2-Dichloroethane	< 0.000194	0.0250	mg/Kg wet								1
1,2-Dichloropropane	< 0.000359	0.0250	mg/Kg wet								1
1,3,5-Trimethylbenzene	< 0.000302	0.0250	mg/Kg wet								1
1-Butanol	< 0.00915	0.0250	mg/Kg wet								1
2-Butanone	< 0.00227	0.0250	mg/Kg wet								1
2-Hexanone	< 0.00157	0.0250	mg/Kg wet								1
4-Methyl-2-pentanone	< 0.00106	0.0250	mg/Kg wet								1
Acetone	< 0.00390	0.0250	mg/Kg wet								1
Acrylonitrile	< 0.00112	0.0250	mg/Kg wet								1
Benzene	< 0.000230	0.0250	mg/Kg wet								1
Bromodichloromethane	< 0.000343	0.0250	mg/Kg wet								1
Bromoform	< 0.000373	0.0250	mg/Kg wet								1
Carbon disulfide	< 0.000279	0.0250	mg/Kg wet								1
Carbon tetrachloride	< 0.000242	0.0250	mg/Kg wet								1
Chlorobenzene	< 0.000266	0.0250	mg/Kg wet								1
Chloroform	< 0.000496	0.0250	mg/Kg wet								1
cis-1,2-Dichloroethene	< 0.000548	0.0250	mg/Kg wet								1
Dibromochloromethane	< 0.000434	0.0250	mg/Kg wet								1
Ethylbenzene	< 0.000342	0.0250	mg/Kg wet								1
m,p-Xylene	< 0.00170	0.0250	mg/Kg wet								1
Methyl tert-butyl ether	< 0.000399	0.0250	mg/Kg wet								1
Methylene chloride	< 0.000934	0.0250	mg/Kg wet								1
o-Xylene	< 0.000236	0.0250	mg/Kg wet								1
Styrene	< 0.000341	0.0250	mg/Kg wet								1
Tetrachloroethene	< 0.000414	0.0250	mg/Kg wet								1
Toluene	< 0.000310	0.0250	mg/Kg wet								1
trans-1,2-Dichloroethene	< 0.000754	0.0250	mg/Kg wet								1
Trichloroethene	< 0.000276	0.0250	mg/Kg wet								1
Vinyl acetate	< 0.000612	0.0250	mg/Kg wet								1
Vinyl chloride	< 0.000378	0.0250	mg/Kg wet								1
Xylenes, Total	< 0.00193	0.0250	mg/Kg wet								1
1,2-Dichloroethene, Total	< 0.00130	0.0250	mg/Kg wet								1

Surrogate: Dibromofluoromethane	20.3		ug/Kg	20.00		102	78-137				1
Surrogate: 1,2-Dichloroethane-d4	19.8		ug/Kg	20.00		99	86-137				1

Quality Control

(Continued)

Client: United Engineering Consultants, Inc.**Report Date:** 01/07/2020**Project:** UEC Analysis
19006**Matrix:** Solid**Work Order:** 19L0752**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B9L0945 (Continued)**Blank (B9L0945-BLK1) (Continued)**

Prepared: 12/30/2019 09:39 Analyzed: 01/02/2020 15:27

Surrogate: Fluorobenzene	19.4		ug/Kg	20.00		97	80-120				1
Surrogate: Toluene-d8	19.6		ug/Kg	20.00		98	73-112				1
Surrogate: 4-Bromofluorobenzene	11.5		ug/Kg	10.00		115	85-120				1
Surrogate: 1,2-Dichlorobenzene-d4	21.9		ug/Kg	20.00		109	85-128				1

LCS (B9L0945-BS1)

Prepared: 12/30/2019 09:39 Analyzed: 01/02/2020 13:40

1,1,1-Trichloroethane	0.0391	0.0250	mg/Kg wet	0.04000		98	55-145				1
1,1,2,2-Tetrachloroethane	0.0402	0.0250	mg/Kg wet	0.04000		101	40-145				1
1,1,2-Trichloroethane	0.0398	0.0250	mg/Kg wet	0.04000		99	50-140				1
1,1-Dichloroethane	0.0373	0.0250	mg/Kg wet	0.04000		93	65-135				1
1,1-Dichloroethene	0.0378	0.0250	mg/Kg wet	0.04000		94	55-150				1
1,2,4-Trimethylbenzene	0.0383	0.0250	mg/Kg wet	0.04000		96	55-145				1
1,2-Dibromo-3-chloropropane	0.0386	0.0250	mg/Kg wet	0.04000		96	25-150				1
1,2-Dibromoethane	0.0408	0.0250	mg/Kg wet	0.04000		102	60-135				1
1,2-Dichloroethane	0.0383	0.0250	mg/Kg wet	0.04000		96	60-145				1
1,2-Dichloropropane	0.0382	0.0250	mg/Kg wet	0.04000		95	65-125				1
1,3,5-Trimethylbenzene	0.0387	0.0250	mg/Kg wet	0.04000		97	55-145				1
1-Butanol	0.379	0.0250	mg/Kg wet	0.4000		95	70-130				1
2-Butanone	0.129	0.0250	mg/Kg wet	0.1400		92	10-180				1
2-Hexanone	0.135	0.0250	mg/Kg wet	0.1400		97	30-160				1
4-Methyl-2-pentanone	0.133	0.0250	mg/Kg wet	0.1400		95	30-165				1
Acetone	0.127	0.0250	mg/Kg wet	0.1400		91	10-180				1
Acrylonitrile	0.0386	0.0250	mg/Kg wet	0.04000		96	70-130				1
Benzene	0.0395	0.0250	mg/Kg wet	0.04000		99	65-135				1
Bromodichloromethane	0.0404	0.0250	mg/Kg wet	0.04000		101	60-135				1
Bromoform	0.0427	0.0250	mg/Kg wet	0.04000		107	45-150				1
Carbon disulfide	0.0372	0.0250	mg/Kg wet	0.04000		93	30-180				1
Carbon tetrachloride	0.0409	0.0250	mg/Kg wet	0.04000		102	55-145				1
Chlorobenzene	0.0415	0.0250	mg/Kg wet	0.04000		104	65-130				1
Chloroform	0.0385	0.0250	mg/Kg wet	0.04000		96	65-135				1
cis-1,2-Dichloroethene	0.0374	0.0250	mg/Kg wet	0.04000		94	55-135				1
Dibromochloromethane	0.0415	0.0250	mg/Kg wet	0.04000		104	55-140				1
Ethylbenzene	0.0424	0.0250	mg/Kg wet	0.04000		106	65-135				1
m,p-Xylene	0.0814	0.0250	mg/Kg wet	0.08000		102	70-135				1
Methyl tert-butyl ether	0.0364	0.0250	mg/Kg wet	0.04000		91	70-130				1
Methylene chloride	0.0367	0.0250	mg/Kg wet	0.04000		92	40-155				1
o-Xylene	0.0411	0.0250	mg/Kg wet	0.04000		103	70-135				1
Styrene	0.0431	0.0250	mg/Kg wet	0.04000		108	65-135				1
Tetrachloroethene	0.0422	0.0250	mg/Kg wet	0.04000		105	55-150				1
Toluene	0.0426	0.0250	mg/Kg wet	0.04000		106	60-135				1
trans-1,2-Dichloroethene	0.0388	0.0250	mg/Kg wet	0.04000		97	55-145				1
Trichloroethene	0.0414	0.0250	mg/Kg wet	0.04000		103	70-130				1

Quality Control

(Continued)

Client: United Engineering Consultants, Inc.**Report Date:** 01/07/2020**Project:** UEC Analysis
19006**Matrix:** Solid**Work Order:** 19L0752**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B9L0945 (Continued)**LCS (B9L0945-BS1) (Continued)**

Prepared: 12/30/2019 09:39 Analyzed: 01/02/2020 13:40

Vinyl acetate	0.0355	0.0250	mg/Kg wet	0.04000		89	50-150				1
Vinyl chloride	0.0371	0.0250	mg/Kg wet	0.04000		93	45-140				1
Xylenes, Total	0.122	0.0250	mg/Kg wet	0.1200		102	70-135				1
1,2-Dichloroethene, Total	0.0762	0.0250	mg/Kg wet	0.08000		95	55-135				1
<i>Surrogate: Dibromofluoromethane</i>	18.2		ug/Kg	20.00		91	78-137				1
<i>Surrogate: 1,2-Dichloroethane-d4</i>	18.6		ug/Kg	20.00		93	86-137				1
<i>Surrogate: Fluorobenzene</i>	19.3		ug/Kg	20.00		97	80-120				1
<i>Surrogate: Toluene-d8</i>	20.4		ug/Kg	20.00		102	73-112				1
<i>Surrogate: 4-Bromofluorobenzene</i>	10.1		ug/Kg	10.00		101	85-120				1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	18.8		ug/Kg	20.00		94	85-128				1

LCS Dup (B9L0945-BS1)

Prepared: 12/30/2019 09:39 Analyzed: 01/02/2020 14:05

1,1,1-Trichloroethane	0.0364	0.0250	mg/Kg wet	0.04000		91	55-145	7	20		1
1,1,2,2-Tetrachloroethane	0.0397	0.0250	mg/Kg wet	0.04000		99	40-145	1	20		1
1,1,2-Trichloroethane	0.0394	0.0250	mg/Kg wet	0.04000		98	50-140	1	20		1
1,1-Dichloroethane	0.0362	0.0250	mg/Kg wet	0.04000		90	65-135	3	20		1
1,1-Dichloroethene	0.0353	0.0250	mg/Kg wet	0.04000		88	55-150	7	20		1
1,2,4-Trimethylbenzene	0.0395	0.0250	mg/Kg wet	0.04000		99	55-145	3	20		1
1,2-Dibromo-3-chloropropane	0.0399	0.0250	mg/Kg wet	0.04000		100	25-150	3	20		1
1,2-Dibromoethane	0.0389	0.0250	mg/Kg wet	0.04000		97	60-135	5	20		1
1,2-Dichloroethane	0.0356	0.0250	mg/Kg wet	0.04000		89	60-145	7	20		1
1,2-Dichloropropane	0.0386	0.0250	mg/Kg wet	0.04000		97	65-125	1	20		1
1,3,5-Trimethylbenzene	0.0397	0.0250	mg/Kg wet	0.04000		99	55-145	3	20		1
1-Butanol	0.380	0.0250	mg/Kg wet	0.4000		95	70-130	0.09	20		1
2-Butanone	0.115	0.0250	mg/Kg wet	0.1400		82	10-180	11	20		1
2-Hexanone	0.133	0.0250	mg/Kg wet	0.1400		95	30-160	2	20		1
4-Methyl-2-pentanone	0.131	0.0250	mg/Kg wet	0.1400		94	30-165	1	20		1
Acetone	0.123	0.0250	mg/Kg wet	0.1400		88	10-180	3	20		1
Acrylonitrile	0.0347	0.0250	mg/Kg wet	0.04000		87	70-130	11	20		1
Benzene	0.0388	0.0250	mg/Kg wet	0.04000		97	65-135	2	20		1
Bromodichloromethane	0.0387	0.0250	mg/Kg wet	0.04000		97	60-135	4	20		1
Bromoform	0.0388	0.0250	mg/Kg wet	0.04000		97	45-150	10	20		1
Carbon disulfide	0.0345	0.0250	mg/Kg wet	0.04000		86	30-180	8	20		1
Carbon tetrachloride	0.0396	0.0250	mg/Kg wet	0.04000		99	55-145	3	20		1
Chlorobenzene	0.0386	0.0250	mg/Kg wet	0.04000		97	65-130	7	20		1
Chloroform	0.0361	0.0250	mg/Kg wet	0.04000		90	65-135	7	20		1
cis-1,2-Dichloroethene	0.0350	0.0250	mg/Kg wet	0.04000		88	55-135	7	20		1
Dibromochloromethane	0.0392	0.0250	mg/Kg wet	0.04000		98	55-140	6	20		1
Ethylbenzene	0.0397	0.0250	mg/Kg wet	0.04000		99	65-135	7	20		1
m,p-Xylene	0.0765	0.0250	mg/Kg wet	0.08000		96	70-135	6	20		1
Methyl tert-butyl ether	0.0353	0.0250	mg/Kg wet	0.04000		88	70-130	3	20		1
Methylene chloride	0.0343	0.0250	mg/Kg wet	0.04000		86	40-155	7	20		1

Quality Control

(Continued)

Client: United Engineering Consultants, Inc.**Report Date:** 01/07/2020**Project:** UEC Analysis
19006**Matrix:** Solid**Work Order:** 19L0752**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B9L0945 (Continued)**LCS Dup (B9L0945-BSD1) (Continued)**

Prepared: 12/30/2019 09:39 Analyzed: 01/02/2020 14:05

o-Xylene	0.0408	0.0250	mg/Kg wet	0.04000		102	70-135	0.7	20		1
Styrene	0.0414	0.0250	mg/Kg wet	0.04000		103	65-135	4	20		1
Tetrachloroethene	0.0398	0.0250	mg/Kg wet	0.04000		99	55-150	6	20		1
Toluene	0.0401	0.0250	mg/Kg wet	0.04000		100	60-135	6	20		1
trans-1,2-Dichloroethene	0.0357	0.0250	mg/Kg wet	0.04000		89	55-145	8	20		1
Trichloroethene	0.0390	0.0250	mg/Kg wet	0.04000		98	70-130	6	20		1
Vinyl acetate	0.0336	0.0250	mg/Kg wet	0.04000		84	50-150	5	20		1
Vinyl chloride	0.0343	0.0250	mg/Kg wet	0.04000		86	45-140	8	20		1
Xylenes, Total	0.117	0.0250	mg/Kg wet	0.1200		98	70-135	4	20		1
1,2-Dichloroethene, Total	0.0707	0.0250	mg/Kg wet	0.08000		88	55-135	7	20		1
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Surrogate: Dibromofluoromethane	16.8		ug/Kg	20.00		84	78-137				1
Surrogate: 1,2-Dichloroethane-d4	18.1		ug/Kg	20.00		90	86-137				1
Surrogate: Fluorobenzene	19.5		ug/Kg	20.00		97	80-120				1
Surrogate: Toluene-d8	19.4		ug/Kg	20.00		97	73-112				1
Surrogate: 4-Bromofluorobenzene	10.1		ug/Kg	10.00		101	85-120				1
Surrogate: 1,2-Dichlorobenzene-d4	20.2		ug/Kg	20.00		101	85-128				1

Certified Analyses included in this Report

Analyte	CAS #	Certifications
SM2540G in Solid		
Total Solids	Moist	WDNR,DoD
SW-846 8260B/WDNR: PUBL-FW-140 in Solid		
1,1,1-Trichloroethane	71-55-6	WDNR
1,1,2,2-Tetrachloroethane	79-34-5	WDNR
1,1,2-Trichloroethane	79-00-5	WDNR
1,1-Dichloroethane	75-34-3	WDNR
1,1-Dichloroethene	75-35-4	WDNR
1,2,4-Trimethylbenzene	95-63-6	WDNR
1,2-Dibromo-3-chloropropane	96-12-8	WDNR
1,2-Dibromoethane	106-93-4	WDNR
1,2-Dichloroethane	107-06-2	WDNR
1,2-Dichloropropane	78-87-5	WDNR
1,3,5-Trimethylbenzene	108-67-8	WDNR
1-Butanol	71-36-3	WDNR
2-Butanone	78-93-3	WDNR
2-Hexanone	591-78-6	WDNR
4-Methyl-2-pentanone	108-10-1	WDNR
Acetone	67-64-1	WDNR
Acrylonitrile	107-13-1	WDNR
Benzene	71-43-2	WDNR
Bromodichloromethane	75-27-4	WDNR
Bromoform	75-25-2	WDNR
Carbon disulfide	75-15-0	WDNR
Carbon tetrachloride	56-23-5	WDNR
Chlorobenzene	108-90-7	WDNR
Chloroform	67-66-3	WDNR
cis-1,2-Dichloroethene	156-59-2	WDNR
Dibromochloromethane	124-48-1	WDNR
Ethylbenzene	100-41-4	WDNR
m,p-Xylene	179601-23-1	WDNR
Methyl tert-butyl ether	1634-04-4	WDNR
Methylene chloride	75-09-2	WDNR
o-Xylene	95-47-6	WDNR
Styrene	100-42-5	WDNR
Tetrachloroethene	127-18-4	WDNR
Toluene	108-88-3	WDNR
trans-1,2-Dichloroethene	156-60-5	WDNR
Trichloroethene	79-01-6	WDNR
Vinyl acetate	108-05-4	WDNR
Vinyl chloride	75-01-4	WDNR

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW-846 8260B/WDNR: PUBL-FW-140 in Solid (Continued)		
Xylenes, Total	1330-20-7	WDNR
1,2-Dichloroethene, Total	540-59-0	WDNR

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	17-011	04/30/2020
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L18-184-R1	04/30/2020
DoD	Department of Defense, Accredited by PJLA	L18-183-R3	04/30/2020
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	004524	01/31/2020
ISO	ISO/IEC 17025, Accredited by PJLA	L18-184-R1	04/30/2020
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2020

Qualifiers and Definitions

Item	Description
J	The reported result is an estimated value.
%Rec	Percent Recovery
MDL	In the state of Wisconsin MDL is equivalent to LOD; in all other applications MDL is equivalent to MDL. In the state of Wisconsin the Reporting Limit is equivalent to LOQ.



ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203



19L0752
PM. Jacoby Jackson
United Engineering Consultants, Inc.
UEC Analysis

Chain of Custody Record

TURNAROUND TIME:
 RUSH
 _____ day turnaround
 ROUTINE

56
7-6735
com

Due Date: _____ COC #: **226511**

Company: UEC, INC.
 Address: 16237 W. RYERSON ROAD
NEW BERLIN, WI 53151
 Phone #: (262) 785-1447 Fax #: () _____
 P.O. #: _____ Proj. #: _____
 Client Contact: TIM ANDERSON
 Project ID / Location: 19006

Sample Type:
 1. Waste Water 4. Sludge 7. Groundwater (filtered)
 2. Drinking Water 5. Oil 8. Other
 3. Soil 6. Groundwater _____

Container Type:
 P - Plastic V - VOC Vial O - Other
 G - Glass B - Tedlar Bag _____

Preservative:
 1. None 4. NaOH 7. Zn Ace
 2. H₂SO₄ 5. HCl 8. Other
 3. HNO₃ 6. MeOH _____

Analyses

EMT
USE
ONLY

EMT
WORKORDER
19L0752

Sample I.D.	Sample Type	Container			Sampling					Preservation		Field	Lab										
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab												
GP-4 3'-4'	3	<u>4oz / 40ml</u>	G	1/1	KH	12/19/19	8:00	-	-	-	-	-	-	✓								01 AB	
GP-4 10'-11'							8:15	-	-					✓									02 AB
GP-4 14'-15'							8:30	-	-					✓									03 AB
GP-5 3'-4'							9:00	-	-					✓									04 AB
GP-5 11'-12'							9:15	-	-					✓									05 AB
GP-5 14'-15'							9:30	-	-					✓									06 AB
GP-6 2'-3'							10:00	-	-					✓									07 AB
GP-6 14'-15'							10:15	-	-					✓									08 AB
GP-7 3'-4'							11:00	-	-					✓									09 AB
GP-7 10'-11'							11:15	-	-					✓									10 AB

Relinquished By: [Signature] Date: 12-23-19
 Time: 9:10

Relinquished By: [Signature] Date: 12-23-19
 Time: 11:00

Relinquished By: _____ Date: _____
 Time: _____

Received By: [Signature] Date: 12-23-19
 Time: 09:10

Received By: _____ Date: _____
 Time: _____

Received For Lab By: [Signature] Date: 12-23-19
 Time: 11:00

EMT USE ONLY
 Client Code:
 EMT Project I.D.
 Jar Lot No.

SAMPLE RECEIVED ON ICE
 TEMPERATURE

4.1

EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS:
 Page 1 of 2 (226511/226513) PUBLISH AS CSV



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203

Chain of Custody Record

847-967-6666
FAX: 847-967-6735
www.emt.com

Due Date: _____ COC #: **226513**

TURNAROUND TIME:
 RUSH
 _____ day turnaround
 ROUTINE

Company: _____
 Address: Same as Page 1
 Phone #: (____) _____ - _____ Fax #: (____) _____
 P.O. #: _____ Proj. #: _____
 Client Contact: _____
 Project ID / Location: _____

Sample Type:
 1. Waste Water 4. Sludge 7. Groundwater (filtered)
 2. Drinking Water 5. Oil 8. Other
 3. Soil 6. Groundwater _____

Container Type:
 P - Plastic V - VOC Vial O - Other
 G - Glass B - Tedlar Bag _____

Preservative:
 1. None 4. NaOH 7. Zn Ace
 2. H2SO4 5. HCl 8. Other
 3. HNO3 6. MeOH _____

Analyses

EMT USE ONLY

EMT WORKORDER #19L0752

Sample I.D.	Sample Type	Container			Sampling						Preservation		VOC										
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab												
GP-7 14'-15'	3	4oz Spal	G	1/1	KH	12/19/12	11:30	-	-	-/6			✓										11AB
GP-8 3'-4'	↓	↓	↓	↓	↓	↓	12:00	-	-	↓			✓										12AB
GP-8 14'-15'	↓	↓	↓	↓	↓	↓	12:15	-	-	↓			✓										13AB

Relinquished By: <u>Nick Adams</u>	Date: <u>12-23-12</u> Time: <u>9:10</u>	Received By: <u>J. Howard</u>	Date: <u>12-23-12</u> Time: <u>0910</u>	EMT USE ONLY Client Code:	<input checked="" type="checkbox"/> SAMPLE RECEIVED ON ICE <input type="checkbox"/> TEMPERATURE <u>4.1</u>
Relinquished By: <u>J. Howard</u>	Date: <u>12-23-12</u> Time: <u>1:00</u>	Received By:	Date: _____ Time: _____	EMT Project I.D.	
Relinquished By:	Date: _____ Time: _____	Received For Lab By: <u>[Signature]</u>	Date: <u>12-23-12</u> Time: <u>11:00</u>	Jar/Lot No.	

SPECIAL INSTRUCTIONS: PAGE 2 OF 2 (226511/226513) PUBLISH AS CSV

Sample Receipt Checklist

Work Order: 19L0752

Printed: 12/23/2019 11:51:25AM

Client: United Engineering Consultants, Inc.	Date Due: 01/02/20 17:00 (5 day TAT)
Project: UEC Analysis	

Received By:	Steven Legacki	Date Received:	12/23/19 11:00
Logged In By:	Nicole Ryan	Date Logged In:	12/23/19 11:45

Samples Received at:	4.1°C
How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Cont/Cooler Intact	Yes
COC Present/Complete	Yes
COC/Labels Agree	Yes
Proper Cont/Preservation checked	Yes
Sufficient Sample Volume	Yes
Samples Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	No
VOA Water Vials/Zero Headspace	NA
PM or Client Contacted	No

COMMENTS

MR
12-23-19

Analytical Report

Timothy J. Anderson
United Engineering Consultants, Inc.
16237 W. Ryerson Road
New Berlin, WI 53151

January 14, 2020

Work Order: 19L0818

RE: UEC Analysis
19006

Dear Timothy J. Anderson:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

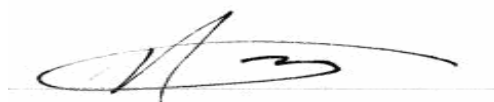
Sincerely,



Jacoby Jackson
Project Manager
847.967.6666
jjackson@emt.com

Approved for release: 1/14/2020 1:22:05PM

Approved by,



Nathan Fey
Laboratory Operations Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Wisconsin Dept of Natural Resources, Cert No. 999888890

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Sample Summary

<u>Sample ID</u>	<u>Laboratory ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
MW-1	19L0818-01	Groundwater	12/26/19 10:00	12/30/19 13:00
MW-2	19L0818-02	Groundwater	12/26/19 10:30	12/30/19 13:00
MW-2 Dup	19L0818-03	Groundwater	12/26/19 11:00	12/30/19 13:00
MW-3	19L0818-04	Groundwater	12/26/19 11:30	12/30/19 13:00
Trip Blank	19L0818-05	Water	12/26/19 00:00	12/30/19 13:00

Case Narrative

Client: United Engineering Consultants, Inc.

Date: 01/14/2020

Project: UEC Analysis
19006

Work Order: 19L0818

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 19L0818

The samples were received on 12/30/19 13:00. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	2.7

Samples 03BC and 04ABC have smaller than pea size bubbles. Sample 05A has a pea sized bubble. Samples 01ABC have larger than pea size bubbles.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

GCMS Volatiles

WDNR VOC

SOA0086-CCV1: 19L0818-01; -02; -03; -04; -05: Bromomethane and chloroethane recovered above control criteria (80% to 120%) for the CCV at 124% and 246% (respectfully). This would indicate a potential high bias in sample data. As there were no detections for these compounds, the exceedance would not impact sample data. 2-chloroethyl vinyl ether recovered below criteria (80% to 120%) at 76%. This compound is recognized by the EPA as unstable.

BOA0176-BSD1: 1-butanol, bromomethane, chloromethane, carbon disulfide, and vinyl chloride in the LCSD exceeded control criteria (+/-20%) at 35%, 30%, 52%, 36%, and 46% (respectfully). This would indicate potential greater scatter in quantitation. As there were no positive detects in sample data, this exceedance would not impact sample data.

Client Sample Results

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0818

Client Sample ID: MW-1
Report Date: 01/14/2020
Collection Date: 12/26/2019 10:00
Matrix: Groundwater
Lab ID: 19L0818-01

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140 / SW5030										
1,1,1-Trichloroethane	< 0.349	2.00		ug/L	0.349	01/07/20 16:38	B0A0176	XN	1	
1,1,2,2-Tetrachloroethane	< 0.291	2.00		ug/L	0.291	01/07/20 16:38	B0A0176	XN	1	
1,1,2-Trichloroethane	< 0.264	2.00		ug/L	0.264	01/07/20 16:38	B0A0176	XN	1	
1,1-Dichloroethane	< 1.94	8.00		ug/L	1.94	01/07/20 16:38	B0A0176	XN	1	
1,1-Dichloroethene	< 1.02	4.00		ug/L	1.02	01/07/20 16:38	B0A0176	XN	1	
1,2,4-Trimethylbenzene	< 0.338	2.00		ug/L	0.338	01/07/20 16:38	B0A0176	XN	1	
1,2-Dibromo-3-chloropropane	< 0.488	2.00	S	ug/L	0.488	01/07/20 16:38	B0A0176	XN	1	
1,2-Dibromoethane	< 0.320	2.00		ug/L	0.320	01/07/20 16:38	B0A0176	XN	1	
1,2-Dichloroethane	< 0.274	2.00		ug/L	0.274	01/07/20 16:38	B0A0176	XN	1	
1,2-Dichloropropane	< 1.11	4.00		ug/L	1.11	01/07/20 16:38	B0A0176	XN	1	
1,3,5-Trimethylbenzene	< 0.310	2.00		ug/L	0.310	01/07/20 16:38	B0A0176	XN	1	
1-Butanol	< 6.69	90.0	S	ug/L	6.69	01/07/20 16:38	B0A0176	XN	1	
2-Butanone	< 1.38	8.00		ug/L	1.38	01/07/20 16:38	B0A0176	XN	1	
2-Hexanone	< 1.04	8.00		ug/L	1.04	01/07/20 16:38	B0A0176	XN	1	
4-Methyl-2-pentanone	< 0.660	28.0		ug/L	0.660	01/07/20 16:38	B0A0176	XN	1	
Acetone	7.07	28.0	J	ug/L	3.75	01/07/20 16:38	B0A0176	XN	1	
Acrolein	< 6.63	20.0		ug/L	6.63	01/07/20 16:38	B0A0176	XN	1	
Acrylonitrile	< 0.742	4.00		ug/L	0.742	01/07/20 16:38	B0A0176	XN	1	
Benzene	< 0.370	2.00		ug/L	0.370	01/07/20 16:38	B0A0176	XN	1	
Bromodichloromethane	< 0.310	2.00		ug/L	0.310	01/07/20 16:38	B0A0176	XN	1	
Bromoform	< 0.254	2.00		ug/L	0.254	01/07/20 16:38	B0A0176	XN	1	
Bromomethane	< 3.30	20.0	S	ug/L	3.30	01/07/20 16:38	B0A0176	XN	1	
Carbon disulfide	0.640	2.00	J	ug/L	0.259	01/07/20 16:38	B0A0176	XN	1	
Carbon tetrachloride	< 0.390	2.00		ug/L	0.390	01/07/20 16:38	B0A0176	XN	1	
Chlorobenzene	< 0.358	2.00		ug/L	0.358	01/07/20 16:38	B0A0176	XN	1	
Chloroethane	< 0.906	4.00	S	ug/L	0.906	01/07/20 16:38	B0A0176	XN	1	
Chloroform	< 0.397	2.00		ug/L	0.397	01/07/20 16:38	B0A0176	XN	1	
Chloromethane	< 2.23	8.00		ug/L	2.23	01/07/20 16:38	B0A0176	XN	1	
cis-1,2-Dichloroethene	< 0.421	2.00		ug/L	0.421	01/07/20 16:38	B0A0176	XN	1	
cis-1,3-Dichloropropene	< 0.278	2.00		ug/L	0.278	01/07/20 16:38	B0A0176	XN	1	
Dibromochloromethane	< 0.492	2.00		ug/L	0.492	01/07/20 16:38	B0A0176	XN	1	
Ethylbenzene	< 0.431	2.00		ug/L	0.431	01/07/20 16:38	B0A0176	XN	1	
m,p-Xylene	< 0.310	4.00		ug/L	0.310	01/07/20 16:38	B0A0176	XN	1	
Methyl tert-butyl ether	< 0.322	2.00		ug/L	0.322	01/07/20 16:38	B0A0176	XN	1	
Methylene chloride	< 0.358	2.00		ug/L	0.358	01/07/20 16:38	B0A0176	XN	1	
o-Xylene	< 0.349	2.00		ug/L	0.349	01/07/20 16:38	B0A0176	XN	1	
Styrene	< 0.534	4.00		ug/L	0.534	01/07/20 16:38	B0A0176	XN	1	
Tetrachloroethene	< 0.400	2.00		ug/L	0.400	01/07/20 16:38	B0A0176	XN	1	
Toluene	< 0.299	2.00		ug/L	0.299	01/07/20 16:38	B0A0176	XN	1	
trans-1,2-Dichloroethene	< 0.433	2.00		ug/L	0.433	01/07/20 16:38	B0A0176	XN	1	
trans-1,3-Dichloropropene	< 0.314	2.00		ug/L	0.314	01/07/20 16:38	B0A0176	XN	1	
Trichloroethene	< 0.439	2.00		ug/L	0.439	01/07/20 16:38	B0A0176	XN	1	
Vinyl acetate	< 1.01	8.00		ug/L	1.01	01/07/20 16:38	B0A0176	XN	1	

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0818

Client Sample ID: MW-1
Report Date: 01/14/2020
Collection Date: 12/26/2019 10:00
Matrix: Groundwater
Lab ID: 19L0818-01 (Continued)

Analyses	Result	EMT Reporting		MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual Units					
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW-846 8260B/WDNR: PUBL-FW-140 / SW5030 (Continued)								
Vinyl chloride	< 0.316	2.00	ug/L	0.316	01/07/20 16:38	B0A0176	XN	1
Xylenes, Total	< 0.660	6.00	ug/L	0.660	01/07/20 16:38	B0A0176	XN	1
1,3-Dichloropropene, Total	< 0.592	4.00	ug/L	0.592	01/07/20 16:38	B0A0176	XN	1
Surrogate: Dibromofluoromethane			Recovery: 101%	Limits: 80-135	01/07/20 16:38	B0A0176	XN	1
Surrogate: 1,2-Dichloroethane-d4			Recovery: 101%	Limits: 86-132	01/07/20 16:38	B0A0176	XN	1
Surrogate: Fluorobenzene			Recovery: 100%	Limits: 80-116	01/07/20 16:38	B0A0176	XN	1
Surrogate: Toluene-d8			Recovery: 99%	Limits: 73-120	01/07/20 16:38	B0A0176	XN	1
Surrogate: 4-Bromofluorobenzene			Recovery: 105%	Limits: 85-114	01/07/20 16:38	B0A0176	XN	1
Surrogate: 1,2-Dichlorobenzene-d4			Recovery: 105%	Limits: 88-136	01/07/20 16:38	B0A0176	XN	1

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0818

Client Sample ID: MW-2
Report Date: 01/14/2020
Collection Date: 12/26/2019 10:30
Matrix: Groundwater
Lab ID: 19L0818-02

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140 / SW5030										
1,1,1-Trichloroethane	< 0.349	2.00		ug/L	0.349	01/07/20 17:03	B0A0176	XN	1	
1,1,2,2-Tetrachloroethane	< 0.291	2.00		ug/L	0.291	01/07/20 17:03	B0A0176	XN	1	
1,1,2-Trichloroethane	< 0.264	2.00		ug/L	0.264	01/07/20 17:03	B0A0176	XN	1	
1,1-Dichloroethane	< 1.94	8.00		ug/L	1.94	01/07/20 17:03	B0A0176	XN	1	
1,1-Dichloroethene	< 1.02	4.00		ug/L	1.02	01/07/20 17:03	B0A0176	XN	1	
1,2,4-Trimethylbenzene	< 0.338	2.00		ug/L	0.338	01/07/20 17:03	B0A0176	XN	1	
1,2-Dibromo-3-chloropropane	< 0.488	2.00	S	ug/L	0.488	01/07/20 17:03	B0A0176	XN	1	
1,2-Dibromoethane	< 0.320	2.00		ug/L	0.320	01/07/20 17:03	B0A0176	XN	1	
1,2-Dichloroethane	< 0.274	2.00		ug/L	0.274	01/07/20 17:03	B0A0176	XN	1	
1,2-Dichloropropane	< 1.11	4.00		ug/L	1.11	01/07/20 17:03	B0A0176	XN	1	
1,3,5-Trimethylbenzene	< 0.310	2.00		ug/L	0.310	01/07/20 17:03	B0A0176	XN	1	
1-Butanol	< 6.69	90.0	S	ug/L	6.69	01/07/20 17:03	B0A0176	XN	1	
2-Butanone	< 1.38	8.00		ug/L	1.38	01/07/20 17:03	B0A0176	XN	1	
2-Hexanone	< 1.04	8.00		ug/L	1.04	01/07/20 17:03	B0A0176	XN	1	
4-Methyl-2-pentanone	< 0.660	28.0		ug/L	0.660	01/07/20 17:03	B0A0176	XN	1	
Acetone	< 3.75	28.0		ug/L	3.75	01/07/20 17:03	B0A0176	XN	1	
Acrolein	< 6.63	20.0		ug/L	6.63	01/07/20 17:03	B0A0176	XN	1	
Acrylonitrile	< 0.742	4.00		ug/L	0.742	01/07/20 17:03	B0A0176	XN	1	
Benzene	< 0.370	2.00		ug/L	0.370	01/07/20 17:03	B0A0176	XN	1	
Bromodichloromethane	< 0.310	2.00		ug/L	0.310	01/07/20 17:03	B0A0176	XN	1	
Bromoform	< 0.254	2.00		ug/L	0.254	01/07/20 17:03	B0A0176	XN	1	
Bromomethane	< 3.30	20.0	S	ug/L	3.30	01/07/20 17:03	B0A0176	XN	1	
Carbon disulfide	< 0.259	2.00		ug/L	0.259	01/07/20 17:03	B0A0176	XN	1	
Carbon tetrachloride	< 0.390	2.00		ug/L	0.390	01/07/20 17:03	B0A0176	XN	1	
Chlorobenzene	< 0.358	2.00		ug/L	0.358	01/07/20 17:03	B0A0176	XN	1	
Chloroethane	< 0.906	4.00	S	ug/L	0.906	01/07/20 17:03	B0A0176	XN	1	
Chloroform	< 0.397	2.00		ug/L	0.397	01/07/20 17:03	B0A0176	XN	1	
Chloromethane	< 2.23	8.00		ug/L	2.23	01/07/20 17:03	B0A0176	XN	1	
cis-1,2-Dichloroethene	< 0.421	2.00		ug/L	0.421	01/07/20 17:03	B0A0176	XN	1	
cis-1,3-Dichloropropene	< 0.278	2.00		ug/L	0.278	01/07/20 17:03	B0A0176	XN	1	
Dibromochloromethane	< 0.492	2.00		ug/L	0.492	01/07/20 17:03	B0A0176	XN	1	
Ethylbenzene	< 0.431	2.00		ug/L	0.431	01/07/20 17:03	B0A0176	XN	1	
m,p-Xylene	< 0.310	4.00		ug/L	0.310	01/07/20 17:03	B0A0176	XN	1	
Methyl tert-butyl ether	< 0.322	2.00		ug/L	0.322	01/07/20 17:03	B0A0176	XN	1	
Methylene chloride	< 0.358	2.00		ug/L	0.358	01/07/20 17:03	B0A0176	XN	1	
o-Xylene	< 0.349	2.00		ug/L	0.349	01/07/20 17:03	B0A0176	XN	1	
Styrene	< 0.534	4.00		ug/L	0.534	01/07/20 17:03	B0A0176	XN	1	
Tetrachloroethene	10.7	2.00		ug/L	0.400	01/07/20 17:03	B0A0176	XN	1	
Toluene	< 0.299	2.00		ug/L	0.299	01/07/20 17:03	B0A0176	XN	1	
trans-1,2-Dichloroethene	< 0.433	2.00		ug/L	0.433	01/07/20 17:03	B0A0176	XN	1	
trans-1,3-Dichloropropene	< 0.314	2.00		ug/L	0.314	01/07/20 17:03	B0A0176	XN	1	
Trichloroethene	< 0.439	2.00		ug/L	0.439	01/07/20 17:03	B0A0176	XN	1	
Vinyl acetate	< 1.01	8.00		ug/L	1.01	01/07/20 17:03	B0A0176	XN	1	

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0818

Client Sample ID: MW-2
Report Date: 01/14/2020
Collection Date: 12/26/2019 10:30
Matrix: Groundwater
Lab ID: 19L0818-02 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW-846 8260B/WDNR: PUBL-FW-140 / SW5030 (Continued)										
Vinyl chloride	< 0.316	2.00			ug/L	0.316	01/07/20 17:03	B0A0176	XN	1
Xylenes, Total	< 0.660	6.00			ug/L	0.660	01/07/20 17:03	B0A0176	XN	1
1,3-Dichloropropene, Total	< 0.592	4.00			ug/L	0.592	01/07/20 17:03	B0A0176	XN	1

Surrogate: Dibromofluoromethane						Recovery: 108%	Limits: 80-135	01/07/20 17:03	B0A0176	XN 1
Surrogate: 1,2-Dichloroethane-d4						Recovery: 104%	Limits: 86-132	01/07/20 17:03	B0A0176	XN 1
Surrogate: Fluorobenzene						Recovery: 101%	Limits: 80-116	01/07/20 17:03	B0A0176	XN 1
Surrogate: Toluene-d8						Recovery: 98%	Limits: 73-120	01/07/20 17:03	B0A0176	XN 1
Surrogate: 4-Bromofluorobenzene						Recovery: 96%	Limits: 85-114	01/07/20 17:03	B0A0176	XN 1
Surrogate: 1,2-Dichlorobenzene-d4						Recovery: 104%	Limits: 88-136	01/07/20 17:03	B0A0176	XN 1

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0818

Client Sample ID: MW-2 Dup
Report Date: 01/14/2020
Collection Date: 12/26/2019 11:00
Matrix: Groundwater
Lab ID: 19L0818-03

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140 / SW5030										
1,1,1-Trichloroethane	< 0.349	2.00		ug/L	0.349	01/07/20 17:29	B0A0176	XN	1	
1,1,2,2-Tetrachloroethane	< 0.291	2.00		ug/L	0.291	01/07/20 17:29	B0A0176	XN	1	
1,1,2-Trichloroethane	< 0.264	2.00		ug/L	0.264	01/07/20 17:29	B0A0176	XN	1	
1,1-Dichloroethane	< 1.94	8.00		ug/L	1.94	01/07/20 17:29	B0A0176	XN	1	
1,1-Dichloroethene	< 1.02	4.00		ug/L	1.02	01/07/20 17:29	B0A0176	XN	1	
1,2,4-Trimethylbenzene	< 0.338	2.00		ug/L	0.338	01/07/20 17:29	B0A0176	XN	1	
1,2-Dibromo-3-chloropropane	< 0.488	2.00	S	ug/L	0.488	01/07/20 17:29	B0A0176	XN	1	
1,2-Dibromoethane	< 0.320	2.00		ug/L	0.320	01/07/20 17:29	B0A0176	XN	1	
1,2-Dichloroethane	< 0.274	2.00		ug/L	0.274	01/07/20 17:29	B0A0176	XN	1	
1,2-Dichloropropane	< 1.11	4.00		ug/L	1.11	01/07/20 17:29	B0A0176	XN	1	
1,3,5-Trimethylbenzene	< 0.310	2.00		ug/L	0.310	01/07/20 17:29	B0A0176	XN	1	
1-Butanol	< 6.69	90.0	S	ug/L	6.69	01/07/20 17:29	B0A0176	XN	1	
2-Butanone	< 1.38	8.00		ug/L	1.38	01/07/20 17:29	B0A0176	XN	1	
2-Hexanone	< 1.04	8.00		ug/L	1.04	01/07/20 17:29	B0A0176	XN	1	
4-Methyl-2-pentanone	< 0.660	28.0		ug/L	0.660	01/07/20 17:29	B0A0176	XN	1	
Acetone	< 3.75	28.0		ug/L	3.75	01/07/20 17:29	B0A0176	XN	1	
Acrolein	< 6.63	20.0		ug/L	6.63	01/07/20 17:29	B0A0176	XN	1	
Acrylonitrile	< 0.742	4.00		ug/L	0.742	01/07/20 17:29	B0A0176	XN	1	
Benzene	< 0.370	2.00		ug/L	0.370	01/07/20 17:29	B0A0176	XN	1	
Bromodichloromethane	< 0.310	2.00		ug/L	0.310	01/07/20 17:29	B0A0176	XN	1	
Bromoform	< 0.254	2.00		ug/L	0.254	01/07/20 17:29	B0A0176	XN	1	
Bromomethane	< 3.30	20.0	S	ug/L	3.30	01/07/20 17:29	B0A0176	XN	1	
Carbon disulfide	< 0.259	2.00		ug/L	0.259	01/07/20 17:29	B0A0176	XN	1	
Carbon tetrachloride	< 0.390	2.00		ug/L	0.390	01/07/20 17:29	B0A0176	XN	1	
Chlorobenzene	< 0.358	2.00		ug/L	0.358	01/07/20 17:29	B0A0176	XN	1	
Chloroethane	< 0.906	4.00	S	ug/L	0.906	01/07/20 17:29	B0A0176	XN	1	
Chloroform	< 0.397	2.00		ug/L	0.397	01/07/20 17:29	B0A0176	XN	1	
Chloromethane	< 2.23	8.00		ug/L	2.23	01/07/20 17:29	B0A0176	XN	1	
cis-1,2-Dichloroethene	< 0.421	2.00		ug/L	0.421	01/07/20 17:29	B0A0176	XN	1	
cis-1,3-Dichloropropene	< 0.278	2.00		ug/L	0.278	01/07/20 17:29	B0A0176	XN	1	
Dibromochloromethane	< 0.492	2.00		ug/L	0.492	01/07/20 17:29	B0A0176	XN	1	
Ethylbenzene	< 0.431	2.00		ug/L	0.431	01/07/20 17:29	B0A0176	XN	1	
m,p-Xylene	< 0.310	4.00		ug/L	0.310	01/07/20 17:29	B0A0176	XN	1	
Methyl tert-butyl ether	< 0.322	2.00		ug/L	0.322	01/07/20 17:29	B0A0176	XN	1	
Methylene chloride	< 0.358	2.00		ug/L	0.358	01/07/20 17:29	B0A0176	XN	1	
o-Xylene	< 0.349	2.00		ug/L	0.349	01/07/20 17:29	B0A0176	XN	1	
Styrene	< 0.534	4.00		ug/L	0.534	01/07/20 17:29	B0A0176	XN	1	
Tetrachloroethene	9.97	2.00		ug/L	0.400	01/07/20 17:29	B0A0176	XN	1	
Toluene	< 0.299	2.00		ug/L	0.299	01/07/20 17:29	B0A0176	XN	1	
trans-1,2-Dichloroethene	< 0.433	2.00		ug/L	0.433	01/07/20 17:29	B0A0176	XN	1	
trans-1,3-Dichloropropene	< 0.314	2.00		ug/L	0.314	01/07/20 17:29	B0A0176	XN	1	
Trichloroethene	< 0.439	2.00		ug/L	0.439	01/07/20 17:29	B0A0176	XN	1	
Vinyl acetate	< 1.01	8.00		ug/L	1.01	01/07/20 17:29	B0A0176	XN	1	

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0818

Client Sample ID: MW-2 Dup
Report Date: 01/14/2020
Collection Date: 12/26/2019 11:00
Matrix: Groundwater
Lab ID: 19L0818-03 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW-846 8260B/WDNR: PUBL-FW-140 / SW5030 (Continued)										
Vinyl chloride	< 0.316	2.00			ug/L	0.316	01/07/20 17:29	B0A0176	XN	1
Xylenes, Total	< 0.660	6.00			ug/L	0.660	01/07/20 17:29	B0A0176	XN	1
1,3-Dichloropropene, Total	< 0.592	4.00			ug/L	0.592	01/07/20 17:29	B0A0176	XN	1

Surrogate: Dibromofluoromethane					Recovery: 100%	Limits: 80-135	01/07/20 17:29	B0A0176	XN	1
Surrogate: 1,2-Dichloroethane-d4					Recovery: 99%	Limits: 86-132	01/07/20 17:29	B0A0176	XN	1
Surrogate: Fluorobenzene					Recovery: 99%	Limits: 80-116	01/07/20 17:29	B0A0176	XN	1
Surrogate: Toluene-d8					Recovery: 98%	Limits: 73-120	01/07/20 17:29	B0A0176	XN	1
Surrogate: 4-Bromofluorobenzene					Recovery: 96%	Limits: 85-114	01/07/20 17:29	B0A0176	XN	1
Surrogate: 1,2-Dichlorobenzene-d4					Recovery: 103%	Limits: 88-136	01/07/20 17:29	B0A0176	XN	1

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0818

Client Sample ID: MW-3
Report Date: 01/14/2020
Collection Date: 12/26/2019 11:30
Matrix: Groundwater
Lab ID: 19L0818-04

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140 / SW5030										
1,1,1-Trichloroethane	< 0.349	2.00		ug/L	0.349	01/07/20 17:55	B0A0176	XN	1	
1,1,2,2-Tetrachloroethane	< 0.291	2.00		ug/L	0.291	01/07/20 17:55	B0A0176	XN	1	
1,1,2-Trichloroethane	< 0.264	2.00		ug/L	0.264	01/07/20 17:55	B0A0176	XN	1	
1,1-Dichloroethane	< 1.94	8.00		ug/L	1.94	01/07/20 17:55	B0A0176	XN	1	
1,1-Dichloroethene	< 1.02	4.00		ug/L	1.02	01/07/20 17:55	B0A0176	XN	1	
1,2,4-Trimethylbenzene	< 0.338	2.00		ug/L	0.338	01/07/20 17:55	B0A0176	XN	1	
1,2-Dibromo-3-chloropropane	< 0.488	2.00	S	ug/L	0.488	01/07/20 17:55	B0A0176	XN	1	
1,2-Dibromoethane	< 0.320	2.00		ug/L	0.320	01/07/20 17:55	B0A0176	XN	1	
1,2-Dichloroethane	< 0.274	2.00		ug/L	0.274	01/07/20 17:55	B0A0176	XN	1	
1,2-Dichloropropane	< 1.11	4.00		ug/L	1.11	01/07/20 17:55	B0A0176	XN	1	
1,3,5-Trimethylbenzene	< 0.310	2.00		ug/L	0.310	01/07/20 17:55	B0A0176	XN	1	
1-Butanol	< 6.69	90.0	S	ug/L	6.69	01/07/20 17:55	B0A0176	XN	1	
2-Butanone	< 1.38	8.00		ug/L	1.38	01/07/20 17:55	B0A0176	XN	1	
2-Hexanone	< 1.04	8.00		ug/L	1.04	01/07/20 17:55	B0A0176	XN	1	
4-Methyl-2-pentanone	< 0.660	28.0		ug/L	0.660	01/07/20 17:55	B0A0176	XN	1	
Acetone	< 3.75	28.0		ug/L	3.75	01/07/20 17:55	B0A0176	XN	1	
Acrolein	< 6.63	20.0		ug/L	6.63	01/07/20 17:55	B0A0176	XN	1	
Acrylonitrile	< 0.742	4.00		ug/L	0.742	01/07/20 17:55	B0A0176	XN	1	
Benzene	< 0.370	2.00		ug/L	0.370	01/07/20 17:55	B0A0176	XN	1	
Bromodichloromethane	< 0.310	2.00		ug/L	0.310	01/07/20 17:55	B0A0176	XN	1	
Bromoform	< 0.254	2.00		ug/L	0.254	01/07/20 17:55	B0A0176	XN	1	
Bromomethane	< 3.30	20.0	S	ug/L	3.30	01/07/20 17:55	B0A0176	XN	1	
Carbon disulfide	< 0.259	2.00		ug/L	0.259	01/07/20 17:55	B0A0176	XN	1	
Carbon tetrachloride	< 0.390	2.00		ug/L	0.390	01/07/20 17:55	B0A0176	XN	1	
Chlorobenzene	< 0.358	2.00		ug/L	0.358	01/07/20 17:55	B0A0176	XN	1	
Chloroethane	< 0.906	4.00	S	ug/L	0.906	01/07/20 17:55	B0A0176	XN	1	
Chloroform	< 0.397	2.00		ug/L	0.397	01/07/20 17:55	B0A0176	XN	1	
Chloromethane	< 2.23	8.00		ug/L	2.23	01/07/20 17:55	B0A0176	XN	1	
cis-1,2-Dichloroethene	< 0.421	2.00		ug/L	0.421	01/07/20 17:55	B0A0176	XN	1	
cis-1,3-Dichloropropene	< 0.278	2.00		ug/L	0.278	01/07/20 17:55	B0A0176	XN	1	
Dibromochloromethane	< 0.492	2.00		ug/L	0.492	01/07/20 17:55	B0A0176	XN	1	
Ethylbenzene	< 0.431	2.00		ug/L	0.431	01/07/20 17:55	B0A0176	XN	1	
m,p-Xylene	< 0.310	4.00		ug/L	0.310	01/07/20 17:55	B0A0176	XN	1	
Methyl tert-butyl ether	< 0.322	2.00		ug/L	0.322	01/07/20 17:55	B0A0176	XN	1	
Methylene chloride	< 0.358	2.00		ug/L	0.358	01/07/20 17:55	B0A0176	XN	1	
o-Xylene	< 0.349	2.00		ug/L	0.349	01/07/20 17:55	B0A0176	XN	1	
Styrene	< 0.534	4.00		ug/L	0.534	01/07/20 17:55	B0A0176	XN	1	
Tetrachloroethene	< 0.400	2.00		ug/L	0.400	01/07/20 17:55	B0A0176	XN	1	
Toluene	< 0.299	2.00		ug/L	0.299	01/07/20 17:55	B0A0176	XN	1	
trans-1,2-Dichloroethene	< 0.433	2.00		ug/L	0.433	01/07/20 17:55	B0A0176	XN	1	
trans-1,3-Dichloropropene	< 0.314	2.00		ug/L	0.314	01/07/20 17:55	B0A0176	XN	1	
Trichloroethene	< 0.439	2.00		ug/L	0.439	01/07/20 17:55	B0A0176	XN	1	
Vinyl acetate	< 1.01	8.00		ug/L	1.01	01/07/20 17:55	B0A0176	XN	1	

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0818

Client Sample ID: MW-3
Report Date: 01/14/2020
Collection Date: 12/26/2019 11:30
Matrix: Groundwater
Lab ID: 19L0818-04 (Continued)

Analyses	Result	EMT Reporting		MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual Units						
Volatile Organic Compounds by GC/MS (Continued)									
Method: SW-846 8260B/WDNR: PUBL-FW-140 / SW5030 (Continued)									
Vinyl chloride	< 0.316	2.00	ug/L	0.316	01/07/20 17:55	B0A0176	XN	1	
Xylenes, Total	< 0.660	6.00	ug/L	0.660	01/07/20 17:55	B0A0176	XN	1	
1,3-Dichloropropene, Total	< 0.592	4.00	ug/L	0.592	01/07/20 17:55	B0A0176	XN	1	
Surrogate: Dibromofluoromethane				Recovery: 104% Limits: 80-135	01/07/20 17:55	B0A0176	XN	1	
Surrogate: 1,2-Dichloroethane-d4				Recovery: 103% Limits: 86-132	01/07/20 17:55	B0A0176	XN	1	
Surrogate: Fluorobenzene				Recovery: 99% Limits: 80-116	01/07/20 17:55	B0A0176	XN	1	
Surrogate: Toluene-d8				Recovery: 100% Limits: 73-120	01/07/20 17:55	B0A0176	XN	1	
Surrogate: 4-Bromofluorobenzene				Recovery: 95% Limits: 85-114	01/07/20 17:55	B0A0176	XN	1	
Surrogate: 1,2-Dichlorobenzene-d4				Recovery: 107% Limits: 88-136	01/07/20 17:55	B0A0176	XN	1	

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0818

Client Sample ID: Trip Blank
Report Date: 01/14/2020
Collection Date: 12/26/2019 00:00
Matrix: Water
Lab ID: 19L0818-05

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS										
Method: SW-846 8260B/WDNR: PUBL-FW-140 / SW5030										
1,1,1-Trichloroethane	< 0.349	2.00		ug/L	0.349	01/07/20 16:12	B0A0176	XN	1	
1,1,2,2-Tetrachloroethane	< 0.291	2.00		ug/L	0.291	01/07/20 16:12	B0A0176	XN	1	
1,1,2-Trichloroethane	< 0.264	2.00		ug/L	0.264	01/07/20 16:12	B0A0176	XN	1	
1,1-Dichloroethane	< 1.94	8.00		ug/L	1.94	01/07/20 16:12	B0A0176	XN	1	
1,1-Dichloroethene	< 1.02	4.00		ug/L	1.02	01/07/20 16:12	B0A0176	XN	1	
1,2,4-Trimethylbenzene	< 0.338	2.00		ug/L	0.338	01/07/20 16:12	B0A0176	XN	1	
1,2-Dibromo-3-chloropropane	< 0.488	2.00	S	ug/L	0.488	01/07/20 16:12	B0A0176	XN	1	
1,2-Dibromoethane	< 0.320	2.00		ug/L	0.320	01/07/20 16:12	B0A0176	XN	1	
1,2-Dichloroethane	< 0.274	2.00		ug/L	0.274	01/07/20 16:12	B0A0176	XN	1	
1,2-Dichloropropane	< 1.11	4.00		ug/L	1.11	01/07/20 16:12	B0A0176	XN	1	
1,3,5-Trimethylbenzene	< 0.310	2.00		ug/L	0.310	01/07/20 16:12	B0A0176	XN	1	
1-Butanol	< 6.69	90.0	S	ug/L	6.69	01/07/20 16:12	B0A0176	XN	1	
2-Butanone	< 1.38	8.00		ug/L	1.38	01/07/20 16:12	B0A0176	XN	1	
2-Hexanone	< 1.04	8.00		ug/L	1.04	01/07/20 16:12	B0A0176	XN	1	
4-Methyl-2-pentanone	< 0.660	28.0		ug/L	0.660	01/07/20 16:12	B0A0176	XN	1	
Acetone	< 3.75	28.0		ug/L	3.75	01/07/20 16:12	B0A0176	XN	1	
Acrolein	< 6.63	20.0		ug/L	6.63	01/07/20 16:12	B0A0176	XN	1	
Acrylonitrile	< 0.742	4.00		ug/L	0.742	01/07/20 16:12	B0A0176	XN	1	
Benzene	< 0.370	2.00		ug/L	0.370	01/07/20 16:12	B0A0176	XN	1	
Bromodichloromethane	< 0.310	2.00		ug/L	0.310	01/07/20 16:12	B0A0176	XN	1	
Bromoform	< 0.254	2.00		ug/L	0.254	01/07/20 16:12	B0A0176	XN	1	
Bromomethane	< 3.30	20.0	S	ug/L	3.30	01/07/20 16:12	B0A0176	XN	1	
Carbon disulfide	< 0.259	2.00		ug/L	0.259	01/07/20 16:12	B0A0176	XN	1	
Carbon tetrachloride	< 0.390	2.00		ug/L	0.390	01/07/20 16:12	B0A0176	XN	1	
Chlorobenzene	< 0.358	2.00		ug/L	0.358	01/07/20 16:12	B0A0176	XN	1	
Chloroethane	< 0.906	4.00	S	ug/L	0.906	01/07/20 16:12	B0A0176	XN	1	
Chloroform	< 0.397	2.00		ug/L	0.397	01/07/20 16:12	B0A0176	XN	1	
Chloromethane	< 2.23	8.00		ug/L	2.23	01/07/20 16:12	B0A0176	XN	1	
cis-1,2-Dichloroethene	< 0.421	2.00		ug/L	0.421	01/07/20 16:12	B0A0176	XN	1	
cis-1,3-Dichloropropene	< 0.278	2.00		ug/L	0.278	01/07/20 16:12	B0A0176	XN	1	
Dibromochloromethane	< 0.492	2.00		ug/L	0.492	01/07/20 16:12	B0A0176	XN	1	
Ethylbenzene	< 0.431	2.00		ug/L	0.431	01/07/20 16:12	B0A0176	XN	1	
m,p-Xylene	< 0.310	4.00		ug/L	0.310	01/07/20 16:12	B0A0176	XN	1	
Methyl tert-butyl ether	< 0.322	2.00		ug/L	0.322	01/07/20 16:12	B0A0176	XN	1	
o-Xylene	< 0.349	2.00		ug/L	0.349	01/07/20 16:12	B0A0176	XN	1	
Styrene	< 0.534	4.00		ug/L	0.534	01/07/20 16:12	B0A0176	XN	1	
Tetrachloroethene	< 0.400	2.00		ug/L	0.400	01/07/20 16:12	B0A0176	XN	1	
Toluene	< 0.299	2.00		ug/L	0.299	01/07/20 16:12	B0A0176	XN	1	
trans-1,2-Dichloroethene	< 0.433	2.00		ug/L	0.433	01/07/20 16:12	B0A0176	XN	1	
trans-1,3-Dichloropropene	< 0.314	2.00		ug/L	0.314	01/07/20 16:12	B0A0176	XN	1	
Trichloroethene	< 0.439	2.00		ug/L	0.439	01/07/20 16:12	B0A0176	XN	1	
Vinyl acetate	< 1.01	8.00		ug/L	1.01	01/07/20 16:12	B0A0176	XN	1	
Vinyl chloride	< 0.316	2.00		ug/L	0.316	01/07/20 16:12	B0A0176	XN	1	

Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: UEC Analysis
 19006
Work Order: 19L0818

Client Sample ID: Trip Blank
Report Date: 01/14/2020
Collection Date: 12/26/2019 00:00
Matrix: Water
Lab ID: 19L0818-05 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW-846 8260B/WDNR: PUBL-FW-140 / SW5030 (Continued)										
Xylenes, Total	< 0.660	6.00			ug/L	0.660	01/07/20 16:12	B0A0176	XN	1
1,3-Dichloropropene, Total	< 0.592	4.00			ug/L	0.592	01/07/20 16:12	B0A0176	XN	1

Surrogate: Dibromofluoromethane						Recovery: 101% Limits: 80-135	01/07/20 16:12	B0A0176	XN	1
Surrogate: 1,2-Dichloroethane-d4						Recovery: 100% Limits: 86-132	01/07/20 16:12	B0A0176	XN	1
Surrogate: Fluorobenzene						Recovery: 101% Limits: 80-116	01/07/20 16:12	B0A0176	XN	1
Surrogate: Toluene-d8						Recovery: 99% Limits: 73-120	01/07/20 16:12	B0A0176	XN	1
Surrogate: 4-Bromofluorobenzene						Recovery: 96% Limits: 85-114	01/07/20 16:12	B0A0176	XN	1
Surrogate: 1,2-Dichlorobenzene-d4						Recovery: 104% Limits: 88-136	01/07/20 16:12	B0A0176	XN	1

Dates Report

Client: United Engineering Consultants, Inc.

Report Date: 01/14/2020

Project: UEC Analysis
19006

Work Order: 19L0818

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
19L0818-01	MW-1	12/26/19	Groundwater	Volatile Organic Compounds (WDNR) by GC/MS		01/07/20 13:42	01/07/20 16:38	B0A0176	S0A0086
19L0818-02	MW-2	12/26/19		Volatile Organic Compounds (WDNR) by GC/MS		01/07/20 13:42	01/07/20 17:03		
19L0818-03	MW-2 Dup	12/26/19		Volatile Organic Compounds (WDNR) by GC/MS		01/07/20 13:42	01/07/20 17:29		
19L0818-04	MW-3	12/26/19		Volatile Organic Compounds (WDNR) by GC/MS		01/07/20 13:42	01/07/20 17:55		
19L0818-05	Trip Blank	12/26/19	Water	Volatile Organic Compounds (WDNR) by GC/MS		01/07/20 13:42	01/07/20 16:12		

Quality Control

Client: United Engineering Consultants, Inc.

Report Date: 01/14/2020

Project: UEC Analysis
19006

Matrix: Water

Work Order: 19L0818

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0A0176 - SW5030
Blank (B0A0176-BLK1)

Prepared: 01/07/2020 10:42 Analyzed: 01/07/2020 15:46

1,1,1-Trichloroethane	< 0.349	2.00	ug/L								1
1,1,2,2-Tetrachloroethane	< 0.291	2.00	ug/L								1
1,1,2-Trichloroethane	< 0.264	2.00	ug/L								1
1,1-Dichloroethane	< 1.94	8.00	ug/L								1
1,1-Dichloroethene	< 1.02	4.00	ug/L								1
1,2,4-Trimethylbenzene	< 0.338	2.00	ug/L								1
1,2-Dibromo-3-chloropropane	< 0.488	2.00	ug/L							S	1
1,2-Dibromoethane	< 0.320	2.00	ug/L								1
1,2-Dichloroethane	< 0.274	2.00	ug/L								1
1,2-Dichloropropane	< 1.11	4.00	ug/L								1
1,3,5-Trimethylbenzene	< 0.310	2.00	ug/L								1
1-Butanol	< 6.69	90.0	ug/L								1
2-Butanone	1.84	8.00	ug/L							J	1
2-Hexanone	< 1.04	8.00	ug/L								1
4-Methyl-2-pentanone	< 0.660	28.0	ug/L								1
Acetone	< 3.75	28.0	ug/L								1
Acrolein	< 6.63	20.0	ug/L								1
Acrylonitrile	< 0.742	4.00	ug/L								1
Benzene	< 0.370	2.00	ug/L								1
Bromodichloromethane	< 0.310	2.00	ug/L								1
Bromoform	< 0.254	2.00	ug/L								1
Bromomethane	< 3.30	20.0	ug/L								1
Carbon disulfide	< 0.259	2.00	ug/L								1
Carbon tetrachloride	< 0.390	2.00	ug/L								1
Chlorobenzene	< 0.358	2.00	ug/L								1
Chloroethane	< 0.906	4.00	ug/L								1
Chloroform	< 0.397	2.00	ug/L								1
Chloromethane	< 2.23	8.00	ug/L								1
cis-1,2-Dichloroethene	< 0.421	2.00	ug/L								1
cis-1,3-Dichloropropene	< 0.278	2.00	ug/L								1
Dibromochloromethane	< 0.492	2.00	ug/L								1
Ethylbenzene	< 0.431	2.00	ug/L								1
m,p-Xylene	< 0.310	4.00	ug/L								1
Methyl tert-butyl ether	< 0.322	2.00	ug/L								1
Methylene chloride	1.85	2.00	ug/L							J	1
o-Xylene	< 0.349	2.00	ug/L								1
Styrene	< 0.534	4.00	ug/L								1
Tetrachloroethene	< 0.400	2.00	ug/L								1
Toluene	< 0.299	2.00	ug/L								1
trans-1,2-Dichloroethene	< 0.433	2.00	ug/L								1
trans-1,3-Dichloropropene	< 0.314	2.00	ug/L								1
Trichloroethene	< 0.439	2.00	ug/L								1

Quality Control

(Continued)

Client: United Engineering Consultants, Inc.**Report Date:** 01/14/2020**Project:** UEC Analysis
19006**Matrix:** Water**Work Order:** 19L0818**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0A0176 - SW5030 (Continued)**Blank (B0A0176-BLK1) (Continued)**

Prepared: 01/07/2020 10:42 Analyzed: 01/07/2020 15:46

Vinyl acetate	< 1.01	8.00	ug/L								1
Vinyl chloride	< 0.316	2.00	ug/L								1
Xylenes, Total	< 0.660	6.00	ug/L								1
1,3-Dichloropropene, Total	< 0.592	4.00	ug/L								1
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Surrogate: Dibromofluoromethane	20.1		ug/L	20.00		100	80-135				1
Surrogate: 1,2-Dichloroethane-d4	19.2		ug/L	20.00		96	86-132				1
Surrogate: Fluorobenzene	19.8		ug/L	20.00		99	80-116				1
Surrogate: Toluene-d8	20.1		ug/L	20.00		101	73-120				1
Surrogate: 4-Bromofluorobenzene	9.70		ug/L	10.00		97	85-114				1
Surrogate: 1,2-Dichlorobenzene-d4	20.1		ug/L	20.00		100	88-136				1

LCS (B0A0176-BS1)

Prepared: 01/07/2020 10:42 Analyzed: 01/07/2020 14:29

1,1,1-Trichloroethane	45.7	2.00	ug/L	50.00		91	74-131				1
1,1,2,2-Tetrachloroethane	47.8	2.00	ug/L	50.00		96	71-121				1
1,1,2-Trichloroethane	46.9	2.00	ug/L	50.00		94	80-119				1
1,1-Dichloroethane	44.8	8.00	ug/L	50.00		90	77-125				1
1,1-Dichloroethene	42.8	4.00	ug/L	50.00		86	71-131				1
1,2,4-Trimethylbenzene	47.5	2.00	ug/L	50.00		95	76-124				1
1,2-Dibromo-3-chloropropane	46.8	2.00	ug/L	50.00		94	62-128			S	1
1,2-Dibromoethane	48.4	2.00	ug/L	50.00		97	77-121				1
1,2-Dichloroethane	45.8	2.00	ug/L	50.00		92	73-128				1
1,2-Dichloropropane	47.5	4.00	ug/L	50.00		95	78-122				1
1,3,5-Trimethylbenzene	47.0	2.00	ug/L	50.00		94	75-124				1
1-Butanol	365	90.0	ug/L	500.0		73	70-130				1
2-Butanone	162	8.00	ug/L	175.0		93	56-143			B	1
2-Hexanone	159	8.00	ug/L	175.0		91	57-139				1
4-Methyl-2-pentanone	156	28.0	ug/L	175.0		89	67-130				1
Acetone	167	28.0	ug/L	175.0		96	39-160				1
Acrolein	114	20.0	ug/L	125.0		91	39-155				1
Acrylonitrile	47.0	4.00	ug/L	50.00		94	63-135				1
Benzene	45.2	2.00	ug/L	50.00		90	79-120				1
Bromodichloromethane	47.8	2.00	ug/L	50.00		96	79-125				1
Bromoform	48.4	2.00	ug/L	50.00		97	66-130				1
Bromomethane	34.9	20.0	ug/L	50.00		70	53-141				1
Carbon disulfide	35.2	2.00	ug/L	50.00		70	64-133				1
Carbon tetrachloride	47.3	2.00	ug/L	50.00		95	72-136				1
Chlorobenzene	47.5	2.00	ug/L	50.00		95	82-118				1
Chloroethane	41.4	4.00	ug/L	50.00		83	60-138				1
Chloroform	46.8	2.00	ug/L	50.00		94	79-124				1
Chloromethane	36.2	8.00	ug/L	50.00		72	50-139				1
cis-1,2-Dichloroethene	46.4	2.00	ug/L	50.00		93	78-123				1
cis-1,3-Dichloropropene	49.6	2.00	ug/L	50.00		99	75-124				1

Quality Control

(Continued)

Client: United Engineering Consultants, Inc.**Report Date:** 01/14/2020**Project:** UEC Analysis
19006**Matrix:** Water**Work Order:** 19L0818**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0A0176 - SW5030 (Continued)**LCS (B0A0176-BS1) (Continued)**

Prepared: 01/07/2020 10:42 Analyzed: 01/07/2020 14:29

Dibromochloromethane	47.0	2.00	ug/L	50.00		94	74-126				1
Ethylbenzene	46.7	2.00	ug/L	50.00		93	79-121				1
m,p-Xylene	95.4	4.00	ug/L	100.0		95	80-136				1
Methyl tert-butyl ether	46.1	2.00	ug/L	50.00		92	71-124				1
Methylene chloride	46.5	2.00	ug/L	50.00		93	74-124			B	1
o-Xylene	44.3	2.00	ug/L	50.00		89	78-122				1
Styrene	49.0	4.00	ug/L	50.00		98	78-123				1
Tetrachloroethene	51.8	2.00	ug/L	50.00		104	74-129				1
Toluene	45.9	2.00	ug/L	50.00		92	80-133				1
trans-1,2-Dichloroethene	43.2	2.00	ug/L	50.00		86	75-124				1
trans-1,3-Dichloropropene	48.4	2.00	ug/L	50.00		97	73-127				1
Trichloroethene	46.5	2.00	ug/L	50.00		93	79-123				1
Vinyl acetate	43.5	8.00	ug/L	50.00		87	54-146				1
Vinyl chloride	33.4	2.00	ug/L	50.00		67	58-137				1
Xylenes, Total	140	6.00	ug/L	150.0		93	79-121				1
1,3-Dichloropropene, Total	98.0	4.00	ug/L	100.0		98	77-123				1
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Surrogate: Dibromofluoromethane	20.6		ug/L	20.00		103	80-135				1
Surrogate: 1,2-Dichloroethane-d4	20.0		ug/L	20.00		100	86-132				1
Surrogate: Fluorobenzene	20.0		ug/L	20.00		100	80-116				1
Surrogate: Toluene-d8	20.4		ug/L	20.00		102	73-120				1
Surrogate: 4-Bromofluorobenzene	9.60		ug/L	10.00		96	85-114				1
Surrogate: 1,2-Dichlorobenzene-d4	20.6		ug/L	20.00		103	88-136				1

LCS Dup (B0A0176-BSD1)

Prepared: 01/07/2020 10:42 Analyzed: 01/07/2020 14:54

1,1,1-Trichloroethane	45.6	2.00	ug/L	50.00		91	74-131	0.2	20		1
1,1,2,2-Tetrachloroethane	49.1	2.00	ug/L	50.00		98	71-121	3	20		1
1,1,2-Trichloroethane	49.0	2.00	ug/L	50.00		98	80-119	4	20		1
1,1-Dichloroethane	47.4	8.00	ug/L	50.00		95	77-125	5	20		1
1,1-Dichloroethene	51.4	4.00	ug/L	50.00		103	71-131	18	20		1
1,2,4-Trimethylbenzene	46.9	2.00	ug/L	50.00		94	76-124	1	20		1
1,2-Dibromo-3-chloropropane	49.0	2.00	ug/L	50.00		98	62-128	5	20	S	1
1,2-Dibromoethane	48.7	2.00	ug/L	50.00		97	77-121	0.6	20		1
1,2-Dichloroethane	46.2	2.00	ug/L	50.00		92	73-128	1	20		1
1,2-Dichloropropane	49.4	4.00	ug/L	50.00		99	78-122	4	20		1
1,3,5-Trimethylbenzene	47.4	2.00	ug/L	50.00		95	75-124	0.8	20		1
1-Butanol	521	90.0	ug/L	500.0		104	70-130	35	20		1
2-Butanone	186	8.00	ug/L	175.0		106	56-143	14	20	B	1
2-Hexanone	177	8.00	ug/L	175.0		101	57-139	11	20		1
4-Methyl-2-pentanone	176	28.0	ug/L	175.0		101	67-130	13	20		1
Acetone	179	28.0	ug/L	175.0		102	39-160	7	20		1
Acrolein	131	20.0	ug/L	125.0		105	39-155	14	20		1
Acrylonitrile	53.0	4.00	ug/L	50.00		106	63-135	12	20		1

Quality Control

(Continued)

Client: United Engineering Consultants, Inc.**Report Date:** 01/14/2020**Project:** UEC Analysis
19006**Matrix:** Water**Work Order:** 19L0818**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B0A0176 - SW5030 (Continued)**LCS Dup (B0A0176-BSD1) (Continued)**

Prepared: 01/07/2020 10:42 Analyzed: 01/07/2020 14:54

Benzene	47.8	2.00	ug/L	50.00		96	79-120	6	20		1
Bromodichloromethane	48.5	2.00	ug/L	50.00		97	79-125	1	20		1
Bromoform	48.1	2.00	ug/L	50.00		96	66-130	0.5	20		1
Bromomethane	47.4	20.0	ug/L	50.00		95	53-141	30	20		1
Carbon disulfide	50.7	2.00	ug/L	50.00		101	64-133	36	20		1
Carbon tetrachloride	51.7	2.00	ug/L	50.00		103	72-136	9	20		1
Chlorobenzene	48.0	2.00	ug/L	50.00		96	82-118	1	20		1
Chloroethane	45.9	4.00	ug/L	50.00		92	60-138	10	20		1
Chloroform	46.6	2.00	ug/L	50.00		93	79-124	0.6	20		1
Chloromethane	61.3	8.00	ug/L	50.00		123	50-139	52	20		1
cis-1,2-Dichloroethene	47.2	2.00	ug/L	50.00		94	78-123	2	20		1
cis-1,3-Dichloropropene	50.4	2.00	ug/L	50.00		101	75-124	1	20		1
Dibromochloromethane	49.5	2.00	ug/L	50.00		99	74-126	5	20		1
Ethylbenzene	47.3	2.00	ug/L	50.00		95	79-121	1	20		1
m,p-Xylene	97.1	4.00	ug/L	100.0		97	80-136	2	20		1
Methyl tert-butyl ether	49.7	2.00	ug/L	50.00		99	71-124	7	20		1
Methylene chloride	49.4	2.00	ug/L	50.00		99	74-124	6	20	B	1
o-Xylene	44.8	2.00	ug/L	50.00		90	78-122	1	20		1
Styrene	48.8	4.00	ug/L	50.00		98	78-123	0.3	20		1
Tetrachloroethene	50.0	2.00	ug/L	50.00		100	74-129	3	20		1
Toluene	45.9	2.00	ug/L	50.00		92	80-133	0.07	20		1
trans-1,2-Dichloroethene	48.2	2.00	ug/L	50.00		96	75-124	11	20		1
trans-1,3-Dichloropropene	50.7	2.00	ug/L	50.00		101	73-127	5	20		1
Trichloroethene	47.7	2.00	ug/L	50.00		95	79-123	3	20		1
Vinyl acetate	48.1	8.00	ug/L	50.00		96	54-146	10	20		1
Vinyl chloride	53.4	2.00	ug/L	50.00		107	58-137	46	20		1
Xylenes, Total	142	6.00	ug/L	150.0		95	79-121	2	20		1
1,3-Dichloropropene, Total	101	4.00	ug/L	100.0		101	77-123	3	20		1
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Surrogate: Dibromofluoromethane	19.9		ug/L	20.00		100	80-135				1
Surrogate: 1,2-Dichloroethane-d4	19.0		ug/L	20.00		95	86-132				1
Surrogate: Fluorobenzene	19.8		ug/L	20.00		99	80-116				1
Surrogate: Toluene-d8	20.0		ug/L	20.00		100	73-120				1
Surrogate: 4-Bromofluorobenzene	9.51		ug/L	10.00		95	85-114				1
Surrogate: 1,2-Dichlorobenzene-d4	19.7		ug/L	20.00		98	88-136				1

Certified Analyses included in this Report

Analyte	CAS #	Certifications
<i>SW-846 8260B/WDNR: PUBL-FW-140 in Water</i>		
1,1,1-Trichloroethane	71-55-6	WDNR
1,1,2,2-Tetrachloroethane	79-34-5	WDNR
1,1,2-Trichloroethane	79-00-5	WDNR
1,1-Dichloroethane	75-34-3	WDNR
1,1-Dichloroethene	75-35-4	WDNR
1,2,4-Trimethylbenzene	95-63-6	WDNR
1,2-Dibromo-3-chloropropane	96-12-8	WDNR
1,2-Dibromoethane	106-93-4	WDNR
1,2-Dichloroethane	107-06-2	WDNR
1,2-Dichloropropane	78-87-5	WDNR
1,3,5-Trimethylbenzene	108-67-8	WDNR
1-Butanol	71-36-3	WDNR
2-Butanone	78-93-3	WDNR
2-Hexanone	591-78-6	WDNR
4-Methyl-2-pentanone	108-10-1	WDNR
Acetone	67-64-1	WDNR
Acrolein	107-02-8	WDNR
Acrylonitrile	107-13-1	WDNR
Benzene	71-43-2	WDNR
Bromodichloromethane	75-27-4	WDNR
Bromoform	75-25-2	WDNR
Bromomethane	74-83-9	WDNR
Carbon disulfide	75-15-0	WDNR
Carbon tetrachloride	56-23-5	WDNR
Chlorobenzene	108-90-7	WDNR
Chloroethane	75-00-3	WDNR
Chloroform	67-66-3	WDNR
Chloromethane	74-87-3	WDNR
cis-1,2-Dichloroethene	156-59-2	WDNR
cis-1,3-Dichloropropene	10061-01-5	WDNR
Dibromochloromethane	124-48-1	WDNR
Ethylbenzene	100-41-4	WDNR
m,p-Xylene	179601-23-1	WDNR
Methyl tert-butyl ether	1634-04-4	WDNR
Methylene chloride	75-09-2	WDNR
o-Xylene	95-47-6	WDNR
Styrene	100-42-5	WDNR
Tetrachloroethene	127-18-4	WDNR
Toluene	108-88-3	WDNR
trans-1,2-Dichloroethene	156-60-5	WDNR
trans-1,3-Dichloropropene	10061-02-6	WDNR

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
<i>SW-846 8260B/WDNR: PUBL-FW-140 in Water (Continued)</i>		
Trichloroethene	79-01-6	WDNR
Vinyl acetate	108-05-4	WDNR
Vinyl chloride	75-01-4	WDNR
Xylenes, Total	1330-20-7	WDNR
1,3-Dichloropropene, Total	542-75-6	WDNR

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	17-011	04/30/2020
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L18-184-R1	04/30/2020
DoD	Department of Defense, Accredited by PJLA	L18-183-R3	04/30/2020
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	004524	01/31/2020
ISO	ISO/IEC 17025, Accredited by PJLA	L18-184-R1	04/30/2020
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2020

Qualifiers and Definitions

Item	Description
B	Analyte was present in the method blank.
J	The reported result is an estimated value.
S	The quality control sample recovery is outside of the laboratory control limits.
%Rec	Percent Recovery
MDL	In the state of Wisconsin MDL is equivalent to LOD; in all other applications MDL is equivalent to MDL. In the state of Wisconsin the Reporting Limit is equivalent to LOQ.

Sample Receipt Checklist

Work Order: 19L0818

Printed: 12/30/2019 2:08:27PM

Client: **United Engineering Consultants, Inc.**
Project: **UEC Analysis**

Date Due: **01/07/20 17:00 (5 day TAT)**

Received By:	Keith Wesseling	Date Received:	12/30/19 13:00
Logged In By:	Keith Wesseling	Date Logged In:	12/30/19 13:22

Samples Received at:	2.7°C
How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Cont/Cooler Intact	Yes
CQC Present/Complete	Yes
COC/Labels Agree	Yes
Proper Cont/Preservation checked	Yes
Sufficient Sample Volume	Yes
Samples Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	Yes
VOA Water Vials/Zero Headspace	No
PM or Client Contacted	No

COMMENTS

Samples 03BC and 04ABC have smaller than pea size bubbles. Sample 05A has a pea sized bubble. Samples 01ABC have larger than pea size bubbles.

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12/30/19