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604 Wilson Avenue
Menomonie, WI 54751
715-235-9081
800-472-7372
FAX 715-235-2727
www.cedarcorp.com

Jan. 16, 2018

Mr. Phil Richard
WDNR
875 South Fourth Avenue
Park Falls, WI 54552

via email: Philip.Richard@wisconsin.gov

SUBJECT: Results for Dragovich & Boho Sampling Event, Phillips, WI
BRRTS #03-51-000623

Dear Mr. Richard,

At your request, Cedar Corporation has completed the groundwater and drinking water sampling at the Dragovich and Boho LUST site in Phillips, WI. The sampling included preparation of updated access agreements for the two properties on which monitoring wells are located; VOC sampling of the Dragovich and Boho (Collins) private wells and MW-2, MW-3, MW-4, MW-5 and P-2; preparation of data results tables and a groundwater flow map; and the following report letter.

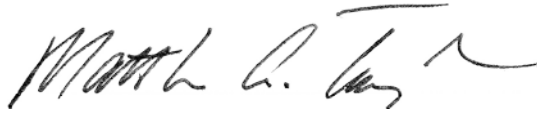
The water sampling took place on either November 30, 2016 or October 16, 2017. The later sampling included only the Collins well as it was not available for sampling previously. During both sampling events the samples collected were placed in laboratory supplied vials and placed on ice through shipping to the laboratory. The samples were shipped to Test America's University Park, IL lab for analysis by EPA Method 8260B for Volatile Organic Compounds.

The lab reported detections of the following analytes in one or more samples: benzene; 1,2-dichloroethane; methyl-tert-butyl ether (MTBE); methylene chloride (flagged as a probable lab contaminant); and toluene. Other than the detection of toluene in P-2, the only other detections were in samples from the two potable wells. The only reported compound above its NR 140 Enforcement Standard was benzene in the Collins well, benzene and 1,2-dichloroethane in the Dragovich well were reported above the NR 140 Preventive Action Limit. None of the other reported detections were in above the PAL. Furthermore, the reported detections were generally in line with previously reported levels. Tables presenting the groundwater and potable well water results are attached as are the complete lab reports.

Groundwater levels measured in the three monitoring wells were plotted to create a groundwater flow map for the Nov. 30, 2016 sampling event. The flow direction was calculated to be southwesterly. A map depicting the calculated groundwater flow is attached.

If there are any questions, please feel free to contact either me or Mitch Evenson at 715-235-9081.

Sincerely;
CEDAR CORPORATION

A handwritten signature in black ink, appearing to read "Matthew A. Taylor". The signature is fluid and cursive, with a prominent horizontal stroke at the end.

Matthew A. Taylor, P.G.
Hydrogeologist

c. Mitch Evenson

Att.

Dragovich & Boho Sites
BRRTS # 03-51-000623
Phillips, WI
Groundwater Analytical Results
PVOC and detected VOC

PARAMETER	SAMPLE DATE	MW-1	MW-2	MW-3	MW-4	MW-5	P-1	P-2
BENZENE (ug / L) Enforcement Standard - 5.0 Preventive Action Limit - 0.5	11/3/06	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.29
	5/22/07	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.50
	8/15/07	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	11/15/07	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	11/30/16	<0.25	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
CHLOROMETHANE (ug / L) Enforcement Standard - 3 Preventive Action Limit - 0.3	11/3/06	<0.20	<0.25	<0.20	<0.20	<0.20	<0.20	0.76
	11/30/16		<0.51	<0.51	<0.32	<0.32		<0.51
1,2-DICHLOROETHANE (ug / L) Enforcement Standard - 5 Preventive Action Limit - 0.5	11/3/06	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/30/16		<0.39	<0.39	<0.39	<0.39		<0.39
1,1-DICHLOROPROPENE (ug / L)	11/3/06	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
			<0.30	<0.30	<0.30	<0.30		<0.30
ETHYLBENZENE (ug / L) Enforcement Standard - 700 Preventive Action Limit - 140	11/3/06	0.59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/22/07	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.44
	8/15/07	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
	11/15/07	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
	11/30/16		<0.18	<0.18	<0.18	<0.18		<0.18
NAPHTHALENE (ug / L) Enforcement Standard - 40 Preventive Action Limit - 8	11/3/06	<0.25	0.54	<0.25	0.34		<0.25	<0.25
	5/22/07	<0.50	<0.50	<0.50	<0.50	0.60	<0.50	<1.0
	8/15/07	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/15/07	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/30/16		<0.34	<0.34	<0.34	<0.34		<0.34
TOLUENE (ug / L) Enforcement Standard - 1000 Preventive Action Limit - 200	11/3/06	<0.20	<0.20	<0.20	<0.20		<0.20	0.70
	5/22/07	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
	8/15/07	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	7.0
	11/15/07	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	8.2
	11/30/16		<0.15	<0.15	<0.15	<0.15		0.33
1,2,4-TRIMETHYLBENZENE (ug / L) Enforcement Standard - 480 Preventive Action Limit - 96 (Total Trimethylbenzenes)	11/3/06	0.35	0.44	<0.20	0.38		<0.20	<0.20
	5/22/07	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.50
	8/15/07	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	11/15/07	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	11/30/16		<0.36	<0.36	<0.36	<0.36		<0.36
1,3,5-TRIMETHYLBENZENE (ug / L)	11/3/06	<0.20	<0.20	<0.20	<0.20		<0.20	<0.20
	5/22/07	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.38
	8/15/07	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
	11/15/07	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
	11/30/16		<0.25	<0.25	<0.25	<0.25		<0.25
XYLENES (ug / L) Enforcement Standard - 10,000 Preventive Action Limit - 1000	11/3/06	<0.50	<0.50	<0.50	<0.50		<0.50	<0.50
	5/22/07	<0.39	<0.39	<0.39	<0.39	<0.39	0.54	<0.78
	8/15/07	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	1.2
	11/15/07	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
	11/30/16		<0.22	<0.22	<0.22	<0.22		<0.22

NS - Not Sampled

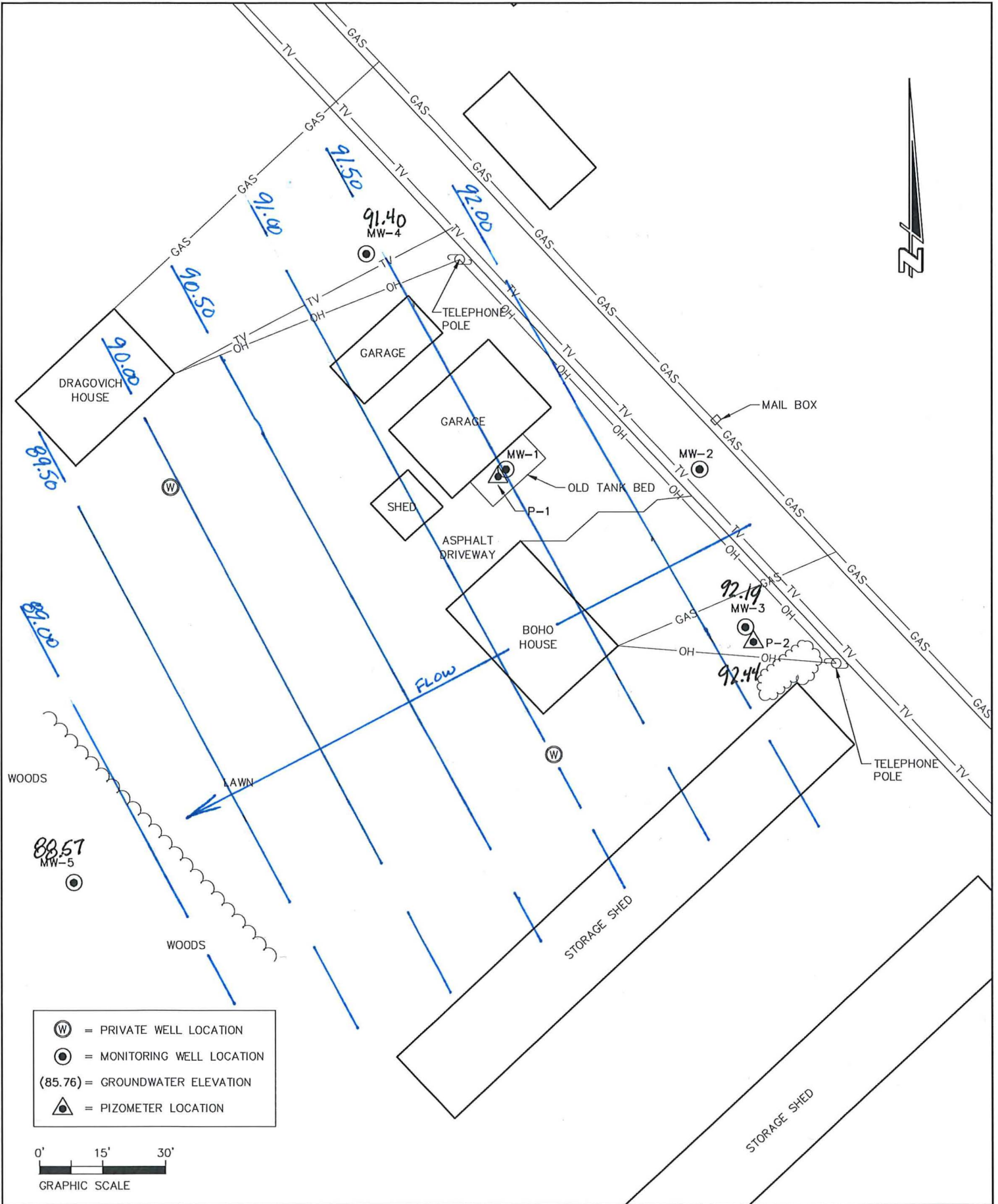
BOLD - Exceeds NR 140 ES

Italics - Exceeds NR 140 PAL

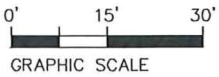
Dragovich & Boho Sites
BRRTS # 03-51-000623
Phillips, WI
Groundwater Analytical Results
PVOC and detected VOC

PARAMETER	SAMPLE DATE	Dragovich	Boho / Collins	
BENZENE (ug / L) Enforcement Standard - 5.0 Preventive Action Limit - 0.5	1/6/92	69		
	1/22/92	66		
	2/3/92		87	
	2/5/01	37		
	6/18/01		140	
	4/6/04	<0.41	44	
	11/3/06	11	94	
	5/22/07	2.2	<0.25	
	8/15/07	9.0	75	
	11/15/07	7.8		
	6/20/08		86	
	11/30/16	3.8	81*	
CHLOROMETHANE (ug / L) Enforcement Standard - 3 Preventive Action Limit - 0.3	1/6/92	<1.0		
	1/22/92	<1.0		
	2/3/92		12	
	11/3/06	0.56		
	8/15/07	<0.20	<0.20	
	11/15/07	0.62		
	6/20/08		<0.30	
	11/30/16	<0.32	<0.51*	
	1,2-DICHLOROETHANE (ug / L) Enforcement Standard - 5 Preventive Action Limit - 0.5	1/6/92	4.3	
		2/3/92		4.9
1/22/92		3.7		
2/5/01			2.4	
6/18/01		3		
11/3/06		<0.50	<1.7	
8/15/07		2.6	<0.50	
11/15/07		2.2		
6/20/08			<0.50	
11/30/16		2.2	<0.39*	
1,1-DICHLOROPROPENE (ug / L)	1/6/92	<2.0		
	1/22/92	<2.0		
	11/3/06	<0.50	2.9	
	8/15/07	<0.50	<0.50	
	6/20/08		<0.50	
	11/30/16	<0.30	<0.30*	
	ETHYLBENZENE (ug / L) Enforcement Standard - 700 Preventive Action Limit - 140	1/6/92	<1.0	
		1/22/92	<1.0	
2/5/01		0.21	0.17	
4/6/04		<0.54	<0.54	
11/3/06		<0.50	<0.50	
5/22/07		<0.22	<0.22	
8/15/07		<0.50	<0.50	
11/15/07		<0.50		
6/20/08			<0.50	
11/30/16		<0.18	<0.18*	
MTBE (ug / L) Enforcement Standard - 60 Preventive Action Limit - 12	11/30/16	1.2	2.0*	
NAPHTHALENE (ug / L) Enforcement Standard - 40 Preventive Action Limit - 8	11/3/06	<0.25	<0.25	
	5/22/07		<0.25	
	8/15/07	<0.25	<0.25	
	11/15/07	<0.25		
	6/20/08		<0.25	
	11/30/16	<0.34	<0.34*	
TOLUENE (ug / L) Enforcement Standard - 1000 Preventive Action Limit - 200	1/6/92	<1.0		
	1/22/92	<1.0		
	2/5/01		0.52	
	6/18/01	2.2		
	4/6/04	<0.67	<0.67	
	11/3/06	<0.20	1.2	
	5/22/07	<0.11	<0.11	
	8/15/07	<0.20	1.0	
	11/15/07	<0.20		
	6/20/08		1	
11/30/16	<0.15	<0.15*		
1,2,4-TRIMETHYLBENZENE (ug / L) Enforcement Standard - 480 Preventive Action Limit - 96 (Total Trimethylbenzenes)	4/6/04	<1.80	<1.80	
	11/3/06	<0.20	<0.20	
	5/22/07	<0.25	<0.25	
	8/15/07	<0.20	<0.20	
	11/15/07	<0.20		
	6/20/08		<0.20	
11/30/16	<0.36	<0.36*		
1,3,5-TRIMETHYLBENZENE (ug / L)	11/3/06	<0.20	<0.20	
	5/22/07	<0.19	<0.19	
	8/15/07	<0.20	<0.20	
	11/15/07	<0.20		
	6/20/08		<0.20	
	11/30/16	<0.25	<0.25*	
XYLENES (ug / L) Enforcement Standard - 10,000 Preventive Action Limit - 1000	1/6/92	<2.0		
	1/22/92	<2.0		
	2/5/01	0.27		
	6/18/01		1.3	
	4/6/04	<2.63	<2.63	
	11/3/06	<0.50	0.94	
	5/22/07	<0.39	<0.39	
	8/15/07	<0.50	0.61	
	11/15/07	<0.50		
	6/20/08		0.88	
11/30/16	<0.22	<0.22*		

BOLD - Exceeds NR 140 ES
Italics - Exceeds NR 140 PAL
 * - Sample date 10/16/2017



- (W) = PRIVATE WELL LOCATION
- (●) = MONITORING WELL LOCATION
- (85.76) = GROUNDWATER ELEVATION
- (▲) = PIZOMETER LOCATION



DRAWN BY	PROJECT TITLE	<p>604 Wilson Avenue Menomonie, Wisconsin 54751 715-235-9081 800-472-7372 101-472-7372 www.cedarcorp.com</p>	CHECKED BY
DATE	<p><i>Dragovich & Boho Sites</i> <i>11/30/2016 Groundwater flow</i> <i>Phillips, WI</i></p>		JOB NO.
REFERENCE FILE			W0950-024
DRAWING FILE			FIGURE
W024bose2.dwg			

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-120900-1
Client Project/Site: Dragovich & Boho Sites

For:
Cedar Corporation
604 Wilson Avenue
Menomonie, Wisconsin 54751

Attn: Matt Taylor



Authorized for release by:
12/7/2016 3:06:14 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Case Narrative

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

Job ID: 500-120900-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-120900-1**

Comments

No additional comments.

Receipt

The samples were received on 12/2/2016 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was -0.3° C.

GC/MS VOA

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

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Detection Summary

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

Client Sample ID: Dragovich

Lab Sample ID: 500-120900-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.8		0.50	0.15	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	2.2		1.0	0.39	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	1.2		1.0	0.39	ug/L	1		8260B	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 500-120900-2

No Detections.

Client Sample ID: P-2

Lab Sample ID: 500-120900-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.33	J	0.50	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 500-120900-4

No Detections.

Client Sample ID: MW-2

Lab Sample ID: 500-120900-5

No Detections.

Client Sample ID: MW-4

Lab Sample ID: 500-120900-6

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 500-120900-7

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Sample Summary

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-120900-1	Dragovich	Water	11/30/16 10:05	12/02/16 10:10
500-120900-2	MW-3	Water	11/30/16 10:30	12/02/16 10:10
500-120900-3	P-2	Water	11/30/16 10:55	12/02/16 10:10
500-120900-4	MW-5	Water	11/30/16 11:45	12/02/16 10:10
500-120900-5	MW-2	Water	11/30/16 12:25	12/02/16 10:10
500-120900-6	MW-4	Water	11/30/16 13:15	12/02/16 10:10
500-120900-7	Trip Blank	Water	11/30/16 00:00	12/02/16 10:10

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Client Sample Results

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

Client Sample ID: Dragovich

Lab Sample ID: 500-120900-1

Date Collected: 11/30/16 10:05

Matrix: Water

Date Received: 12/02/16 10:10

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.8		0.50	0.15	ug/L			12/06/16 12:46	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/06/16 12:46	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/06/16 12:46	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/06/16 12:46	1
Bromoform	<0.48		1.0	0.48	ug/L			12/06/16 12:46	1
Bromomethane	<0.80		2.0	0.80	ug/L			12/06/16 12:46	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/06/16 12:46	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/16 12:46	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/16 12:46	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/06/16 12:46	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/06/16 12:46	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/06/16 12:46	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/06/16 12:46	1
Chloroform	<0.37		1.0	0.37	ug/L			12/06/16 12:46	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/06/16 12:46	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/06/16 12:46	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/06/16 12:46	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/06/16 12:46	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/06/16 12:46	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/06/16 12:46	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/06/16 12:46	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/06/16 12:46	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/06/16 12:46	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			12/06/16 12:46	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/06/16 12:46	1
1,2-Dichloroethane	2.2		1.0	0.39	ug/L			12/06/16 12:46	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/06/16 12:46	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/06/16 12:46	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/06/16 12:46	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/06/16 12:46	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/06/16 12:46	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/06/16 12:46	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/06/16 12:46	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/06/16 12:46	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/06/16 12:46	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/06/16 12:46	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/06/16 12:46	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/06/16 12:46	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/06/16 12:46	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/06/16 12:46	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/06/16 12:46	1
Methyl tert-butyl ether	1.2		1.0	0.39	ug/L			12/06/16 12:46	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/06/16 12:46	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/06/16 12:46	1
Styrene	<0.39		1.0	0.39	ug/L			12/06/16 12:46	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/06/16 12:46	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/06/16 12:46	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/06/16 12:46	1
Toluene	<0.15		0.50	0.15	ug/L			12/06/16 12:46	1

TestAmerica Chicago

Client Sample Results

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

Client Sample ID: Dragovich

Lab Sample ID: 500-120900-1

Date Collected: 11/30/16 10:05

Matrix: Water

Date Received: 12/02/16 10:10

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/06/16 12:46	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/06/16 12:46	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/06/16 12:46	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/06/16 12:46	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/06/16 12:46	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/06/16 12:46	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			12/06/16 12:46	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/06/16 12:46	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/06/16 12:46	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			12/06/16 12:46	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/06/16 12:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		71 - 127					12/06/16 12:46	1
Toluene-d8 (Surr)	94		75 - 120					12/06/16 12:46	1
4-Bromofluorobenzene (Surr)	88		71 - 120					12/06/16 12:46	1
Dibromofluoromethane	92		70 - 120					12/06/16 12:46	1

Client Sample ID: MW-3

Lab Sample ID: 500-120900-2

Date Collected: 11/30/16 10:30

Matrix: Water

Date Received: 12/02/16 10:10

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			12/06/16 13:13	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/06/16 13:13	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/06/16 13:13	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/06/16 13:13	1
Bromoform	<0.48		1.0	0.48	ug/L			12/06/16 13:13	1
Bromomethane	<0.80		2.0	0.80	ug/L			12/06/16 13:13	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/06/16 13:13	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/16 13:13	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/16 13:13	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/06/16 13:13	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/06/16 13:13	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/06/16 13:13	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/06/16 13:13	1
Chloroform	<0.37		1.0	0.37	ug/L			12/06/16 13:13	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/06/16 13:13	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/06/16 13:13	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/06/16 13:13	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/06/16 13:13	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/06/16 13:13	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/06/16 13:13	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/06/16 13:13	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/06/16 13:13	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/06/16 13:13	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			12/06/16 13:13	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/06/16 13:13	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/06/16 13:13	1

TestAmerica Chicago

Client Sample Results

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

Client Sample ID: MW-3
Date Collected: 11/30/16 10:30
Date Received: 12/02/16 10:10

Lab Sample ID: 500-120900-2
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/06/16 13:13	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/06/16 13:13	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/06/16 13:13	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/06/16 13:13	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/06/16 13:13	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/06/16 13:13	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/06/16 13:13	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/06/16 13:13	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/06/16 13:13	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/06/16 13:13	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/06/16 13:13	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/06/16 13:13	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/06/16 13:13	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/06/16 13:13	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/06/16 13:13	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/06/16 13:13	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/06/16 13:13	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/06/16 13:13	1
Styrene	<0.39		1.0	0.39	ug/L			12/06/16 13:13	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/06/16 13:13	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/06/16 13:13	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/06/16 13:13	1
Toluene	<0.15		0.50	0.15	ug/L			12/06/16 13:13	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/06/16 13:13	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/06/16 13:13	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/06/16 13:13	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/06/16 13:13	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/06/16 13:13	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/06/16 13:13	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			12/06/16 13:13	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/06/16 13:13	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/06/16 13:13	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			12/06/16 13:13	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/06/16 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		71 - 127		12/06/16 13:13	1
Toluene-d8 (Surr)	93		75 - 120		12/06/16 13:13	1
4-Bromofluorobenzene (Surr)	90		71 - 120		12/06/16 13:13	1
Dibromofluoromethane	93		70 - 120		12/06/16 13:13	1

Client Sample ID: P-2
Date Collected: 11/30/16 10:55
Date Received: 12/02/16 10:10

Lab Sample ID: 500-120900-3
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			12/06/16 13:40	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/06/16 13:40	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/06/16 13:40	1

TestAmerica Chicago

Client Sample Results

Client: Cedar Corporation
 Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

Client Sample ID: P-2

Lab Sample ID: 500-120900-3

Date Collected: 11/30/16 10:55

Matrix: Water

Date Received: 12/02/16 10:10

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/06/16 13:40	1
Bromoform	<0.48		1.0	0.48	ug/L			12/06/16 13:40	1
Bromomethane	<0.80		2.0	0.80	ug/L			12/06/16 13:40	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/06/16 13:40	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/16 13:40	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/16 13:40	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/06/16 13:40	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/06/16 13:40	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/06/16 13:40	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/06/16 13:40	1
Chloroform	<0.37		1.0	0.37	ug/L			12/06/16 13:40	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/06/16 13:40	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/06/16 13:40	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/06/16 13:40	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/06/16 13:40	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/06/16 13:40	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/06/16 13:40	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/06/16 13:40	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/06/16 13:40	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/06/16 13:40	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			12/06/16 13:40	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/06/16 13:40	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/06/16 13:40	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/06/16 13:40	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/06/16 13:40	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/06/16 13:40	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/06/16 13:40	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/06/16 13:40	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/06/16 13:40	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/06/16 13:40	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/06/16 13:40	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/06/16 13:40	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/06/16 13:40	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/06/16 13:40	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/06/16 13:40	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/06/16 13:40	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/06/16 13:40	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/06/16 13:40	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/06/16 13:40	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/06/16 13:40	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/06/16 13:40	1
Styrene	<0.39		1.0	0.39	ug/L			12/06/16 13:40	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/06/16 13:40	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/06/16 13:40	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/06/16 13:40	1
Toluene	0.33	J	0.50	0.15	ug/L			12/06/16 13:40	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/06/16 13:40	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/06/16 13:40	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/06/16 13:40	1

TestAmerica Chicago

Client Sample Results

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

Client Sample ID: P-2

Lab Sample ID: 500-120900-3

Date Collected: 11/30/16 10:55

Matrix: Water

Date Received: 12/02/16 10:10

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/06/16 13:40	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/06/16 13:40	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/06/16 13:40	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			12/06/16 13:40	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/06/16 13:40	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/06/16 13:40	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			12/06/16 13:40	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/06/16 13:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		71 - 127					12/06/16 13:40	1
Toluene-d8 (Surr)	91		75 - 120					12/06/16 13:40	1
4-Bromofluorobenzene (Surr)	92		71 - 120					12/06/16 13:40	1
Dibromofluoromethane	94		70 - 120					12/06/16 13:40	1

Client Sample ID: MW-5

Lab Sample ID: 500-120900-4

Date Collected: 11/30/16 11:45

Matrix: Water

Date Received: 12/02/16 10:10

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			12/06/16 14:07	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/06/16 14:07	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/06/16 14:07	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/06/16 14:07	1
Bromoform	<0.48		1.0	0.48	ug/L			12/06/16 14:07	1
Bromomethane	<0.80		2.0	0.80	ug/L			12/06/16 14:07	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/06/16 14:07	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/16 14:07	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/16 14:07	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/06/16 14:07	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/06/16 14:07	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/06/16 14:07	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/06/16 14:07	1
Chloroform	<0.37		1.0	0.37	ug/L			12/06/16 14:07	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/06/16 14:07	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/06/16 14:07	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/06/16 14:07	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/06/16 14:07	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/06/16 14:07	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/06/16 14:07	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/06/16 14:07	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/06/16 14:07	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/06/16 14:07	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			12/06/16 14:07	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/06/16 14:07	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/06/16 14:07	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/06/16 14:07	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/06/16 14:07	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/06/16 14:07	1

TestAmerica Chicago

Client Sample Results

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

Client Sample ID: MW-5
Date Collected: 11/30/16 11:45
Date Received: 12/02/16 10:10

Lab Sample ID: 500-120900-4
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/06/16 14:07	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/06/16 14:07	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/06/16 14:07	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/06/16 14:07	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/06/16 14:07	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/06/16 14:07	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/06/16 14:07	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/06/16 14:07	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/06/16 14:07	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/06/16 14:07	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/06/16 14:07	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/06/16 14:07	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/06/16 14:07	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/06/16 14:07	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/06/16 14:07	1
Styrene	<0.39		1.0	0.39	ug/L			12/06/16 14:07	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/06/16 14:07	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/06/16 14:07	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/06/16 14:07	1
Toluene	<0.15		0.50	0.15	ug/L			12/06/16 14:07	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/06/16 14:07	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/06/16 14:07	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/06/16 14:07	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/06/16 14:07	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/06/16 14:07	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/06/16 14:07	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			12/06/16 14:07	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/06/16 14:07	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/06/16 14:07	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			12/06/16 14:07	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/06/16 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		71 - 127		12/06/16 14:07	1
Toluene-d8 (Surr)	93		75 - 120		12/06/16 14:07	1
4-Bromofluorobenzene (Surr)	88		71 - 120		12/06/16 14:07	1
Dibromofluoromethane	91		70 - 120		12/06/16 14:07	1

Client Sample ID: MW-2
Date Collected: 11/30/16 12:25
Date Received: 12/02/16 10:10

Lab Sample ID: 500-120900-5
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			12/06/16 14:34	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/06/16 14:34	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/06/16 14:34	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/06/16 14:34	1
Bromoform	<0.48		1.0	0.48	ug/L			12/06/16 14:34	1
Bromomethane	<0.80		2.0	0.80	ug/L			12/06/16 14:34	1

TestAmerica Chicago

Client Sample Results

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

Client Sample ID: MW-2
Date Collected: 11/30/16 12:25
Date Received: 12/02/16 10:10

Lab Sample ID: 500-120900-5
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/06/16 14:34	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/16 14:34	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/16 14:34	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/06/16 14:34	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/06/16 14:34	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/06/16 14:34	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/06/16 14:34	1
Chloroform	<0.37		1.0	0.37	ug/L			12/06/16 14:34	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/06/16 14:34	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/06/16 14:34	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/06/16 14:34	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/06/16 14:34	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/06/16 14:34	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/06/16 14:34	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/06/16 14:34	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/06/16 14:34	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/06/16 14:34	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			12/06/16 14:34	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/06/16 14:34	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/06/16 14:34	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/06/16 14:34	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/06/16 14:34	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/06/16 14:34	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/06/16 14:34	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/06/16 14:34	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/06/16 14:34	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/06/16 14:34	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/06/16 14:34	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/06/16 14:34	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/06/16 14:34	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/06/16 14:34	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/06/16 14:34	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/06/16 14:34	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/06/16 14:34	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/06/16 14:34	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/06/16 14:34	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/06/16 14:34	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/06/16 14:34	1
Styrene	<0.39		1.0	0.39	ug/L			12/06/16 14:34	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/06/16 14:34	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/06/16 14:34	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/06/16 14:34	1
Toluene	<0.15		0.50	0.15	ug/L			12/06/16 14:34	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/06/16 14:34	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/06/16 14:34	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/06/16 14:34	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/06/16 14:34	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/06/16 14:34	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/06/16 14:34	1

TestAmerica Chicago

Client Sample Results

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

Client Sample ID: MW-2

Lab Sample ID: 500-120900-5

Date Collected: 11/30/16 12:25

Matrix: Water

Date Received: 12/02/16 10:10

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			12/06/16 14:34	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/06/16 14:34	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/06/16 14:34	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			12/06/16 14:34	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/06/16 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		71 - 127		12/06/16 14:34	1
Toluene-d8 (Surr)	92		75 - 120		12/06/16 14:34	1
4-Bromofluorobenzene (Surr)	91		71 - 120		12/06/16 14:34	1
Dibromofluoromethane	91		70 - 120		12/06/16 14:34	1

Client Sample ID: MW-4

Lab Sample ID: 500-120900-6

Date Collected: 11/30/16 13:15

Matrix: Water

Date Received: 12/02/16 10:10

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			12/06/16 15:01	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/06/16 15:01	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/06/16 15:01	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/06/16 15:01	1
Bromoform	<0.48		1.0	0.48	ug/L			12/06/16 15:01	1
Bromomethane	<0.80		2.0	0.80	ug/L			12/06/16 15:01	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/06/16 15:01	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/16 15:01	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/16 15:01	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/06/16 15:01	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/06/16 15:01	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/06/16 15:01	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/06/16 15:01	1
Chloroform	<0.37		1.0	0.37	ug/L			12/06/16 15:01	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/06/16 15:01	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/06/16 15:01	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/06/16 15:01	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/06/16 15:01	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/06/16 15:01	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/06/16 15:01	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/06/16 15:01	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/06/16 15:01	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/06/16 15:01	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			12/06/16 15:01	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/06/16 15:01	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/06/16 15:01	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/06/16 15:01	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/06/16 15:01	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/06/16 15:01	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/06/16 15:01	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/06/16 15:01	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/06/16 15:01	1

TestAmerica Chicago

Client Sample Results

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

Client Sample ID: MW-4

Lab Sample ID: 500-120900-6

Date Collected: 11/30/16 13:15

Matrix: Water

Date Received: 12/02/16 10:10

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/06/16 15:01	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/06/16 15:01	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/06/16 15:01	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/06/16 15:01	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/06/16 15:01	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/06/16 15:01	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/06/16 15:01	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/06/16 15:01	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/06/16 15:01	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/06/16 15:01	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/06/16 15:01	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/06/16 15:01	1
Styrene	<0.39		1.0	0.39	ug/L			12/06/16 15:01	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/06/16 15:01	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/06/16 15:01	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/06/16 15:01	1
Toluene	<0.15		0.50	0.15	ug/L			12/06/16 15:01	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/06/16 15:01	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/06/16 15:01	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/06/16 15:01	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/06/16 15:01	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/06/16 15:01	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/06/16 15:01	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			12/06/16 15:01	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/06/16 15:01	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/06/16 15:01	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			12/06/16 15:01	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/06/16 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		71 - 127		12/06/16 15:01	1
Toluene-d8 (Surr)	92		75 - 120		12/06/16 15:01	1
4-Bromofluorobenzene (Surr)	92		71 - 120		12/06/16 15:01	1
Dibromofluoromethane	92		70 - 120		12/06/16 15:01	1

Client Sample ID: Trip Blank

Lab Sample ID: 500-120900-7

Date Collected: 11/30/16 00:00

Matrix: Water

Date Received: 12/02/16 10:10

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			12/06/16 11:52	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/06/16 11:52	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/06/16 11:52	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/06/16 11:52	1
Bromoform	<0.48		1.0	0.48	ug/L			12/06/16 11:52	1
Bromomethane	<0.80		2.0	0.80	ug/L			12/06/16 11:52	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/06/16 11:52	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/16 11:52	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/16 11:52	1

TestAmerica Chicago

Client Sample Results

Client: Cedar Corporation
 Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-120900-7

Date Collected: 11/30/16 00:00

Matrix: Water

Date Received: 12/02/16 10:10

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/06/16 11:52	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/06/16 11:52	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/06/16 11:52	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/06/16 11:52	1
Chloroform	<0.37		1.0	0.37	ug/L			12/06/16 11:52	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/06/16 11:52	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/06/16 11:52	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/06/16 11:52	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/06/16 11:52	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/06/16 11:52	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/06/16 11:52	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/06/16 11:52	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/06/16 11:52	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/06/16 11:52	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			12/06/16 11:52	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/06/16 11:52	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/06/16 11:52	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/06/16 11:52	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/06/16 11:52	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/06/16 11:52	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/06/16 11:52	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/06/16 11:52	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/06/16 11:52	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/06/16 11:52	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/06/16 11:52	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/06/16 11:52	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/06/16 11:52	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/06/16 11:52	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/06/16 11:52	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/06/16 11:52	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/06/16 11:52	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/06/16 11:52	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/06/16 11:52	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/06/16 11:52	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/06/16 11:52	1
Styrene	<0.39		1.0	0.39	ug/L			12/06/16 11:52	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/06/16 11:52	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/06/16 11:52	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/06/16 11:52	1
Toluene	<0.15		0.50	0.15	ug/L			12/06/16 11:52	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/06/16 11:52	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/06/16 11:52	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/06/16 11:52	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/06/16 11:52	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/06/16 11:52	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/06/16 11:52	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			12/06/16 11:52	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/06/16 11:52	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/06/16 11:52	1

TestAmerica Chicago

Client Sample Results

Client: Cedar Corporation
 Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-120900-7

Date Collected: 11/30/16 00:00

Matrix: Water

Date Received: 12/02/16 10:10

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		0.50	0.20	ug/L			12/06/16 11:52	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/06/16 11:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		71 - 127					12/06/16 11:52	1
Toluene-d8 (Surr)	92		75 - 120					12/06/16 11:52	1
4-Bromofluorobenzene (Surr)	89		71 - 120					12/06/16 11:52	1
Dibromofluoromethane	92		70 - 120					12/06/16 11:52	1



Definitions/Glossary

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

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

QC Association Summary

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

GC/MS VOA

Analysis Batch: 363722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120900-1	Dragovich	Total/NA	Water	8260B	
500-120900-2	MW-3	Total/NA	Water	8260B	
500-120900-3	P-2	Total/NA	Water	8260B	
500-120900-4	MW-5	Total/NA	Water	8260B	
500-120900-5	MW-2	Total/NA	Water	8260B	
500-120900-6	MW-4	Total/NA	Water	8260B	
500-120900-7	Trip Blank	Total/NA	Water	8260B	
MB 500-363722/6	Method Blank	Total/NA	Water	8260B	
LCS 500-363722/4	Lab Control Sample	Total/NA	Water	8260B	

Surrogate Summary

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE (71-127)	TOL (75-120)	BFB (71-120)	DBFM (70-120)
500-120900-1	Dragovich	90	94	88	92
500-120900-2	MW-3	88	93	90	93
500-120900-3	P-2	92	91	92	94
500-120900-4	MW-5	90	93	88	91
500-120900-5	MW-2	89	92	91	91
500-120900-6	MW-4	92	92	92	92
500-120900-7	Trip Blank	90	92	89	92
LCS 500-363722/4	Lab Control Sample	99	91	91	102
MB 500-363722/6	Method Blank	91	94	90	92

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

QC Sample Results

Client: Cedar Corporation
 Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

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

Lab Sample ID: MB 500-363722/6
Matrix: Water
Analysis Batch: 363722

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			12/06/16 11:26	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/06/16 11:26	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/06/16 11:26	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/06/16 11:26	1
Bromoform	<0.48		1.0	0.48	ug/L			12/06/16 11:26	1
Bromomethane	<0.80		2.0	0.80	ug/L			12/06/16 11:26	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/06/16 11:26	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/16 11:26	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/16 11:26	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/06/16 11:26	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/06/16 11:26	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/06/16 11:26	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/06/16 11:26	1
Chloroform	<0.37		1.0	0.37	ug/L			12/06/16 11:26	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/06/16 11:26	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/06/16 11:26	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/06/16 11:26	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/06/16 11:26	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/06/16 11:26	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/06/16 11:26	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/06/16 11:26	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/06/16 11:26	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/06/16 11:26	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			12/06/16 11:26	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/06/16 11:26	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/06/16 11:26	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/06/16 11:26	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/06/16 11:26	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/06/16 11:26	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/06/16 11:26	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/06/16 11:26	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/06/16 11:26	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/06/16 11:26	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/06/16 11:26	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/06/16 11:26	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/06/16 11:26	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/06/16 11:26	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/06/16 11:26	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/06/16 11:26	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/06/16 11:26	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/06/16 11:26	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/06/16 11:26	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/06/16 11:26	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/06/16 11:26	1
Styrene	<0.39		1.0	0.39	ug/L			12/06/16 11:26	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/06/16 11:26	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/06/16 11:26	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/06/16 11:26	1

TestAmerica Chicago

QC Sample Results

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

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

Lab Sample ID: MB 500-363722/6
Matrix: Water
Analysis Batch: 363722

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.15		0.50	0.15	ug/L			12/06/16 11:26	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/06/16 11:26	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/06/16 11:26	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/06/16 11:26	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/06/16 11:26	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/06/16 11:26	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/06/16 11:26	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			12/06/16 11:26	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/06/16 11:26	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/06/16 11:26	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			12/06/16 11:26	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/06/16 11:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		71 - 127		12/06/16 11:26	1
Toluene-d8 (Surr)	94		75 - 120		12/06/16 11:26	1
4-Bromofluorobenzene (Surr)	90		71 - 120		12/06/16 11:26	1
Dibromofluoromethane	92		70 - 120		12/06/16 11:26	1

Lab Sample ID: LCS 500-363722/4
Matrix: Water
Analysis Batch: 363722

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	47.9		ug/L		96	70 - 125
Bromobenzene	50.0	53.4		ug/L		107	70 - 125
Bromochloromethane	50.0	54.9		ug/L		110	70 - 125
Bromodichloromethane	50.0	48.3		ug/L		97	70 - 125
Bromoform	50.0	51.0		ug/L		102	54 - 128
Bromomethane	50.0	42.9		ug/L		86	40 - 150
n-Butylbenzene	50.0	42.9		ug/L		86	70 - 125
sec-Butylbenzene	50.0	44.5		ug/L		89	70 - 125
tert-Butylbenzene	50.0	46.5		ug/L		93	70 - 125
Carbon tetrachloride	50.0	47.2		ug/L		94	70 - 125
Chlorobenzene	50.0	48.3		ug/L		97	70 - 125
Dibromochloromethane	50.0	51.3		ug/L		103	66 - 125
Chloroethane	50.0	39.3		ug/L		79	60 - 139
Chloroform	50.0	48.2		ug/L		96	70 - 125
Chloromethane	50.0	42.8		ug/L		86	60 - 140
2-Chlorotoluene	50.0	45.6		ug/L		91	69 - 125
4-Chlorotoluene	50.0	44.3		ug/L		89	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	44.6		ug/L		89	51 - 125
1,2-Dibromoethane	50.0	51.6		ug/L		103	70 - 125
Dibromomethane	50.0	53.8		ug/L		108	70 - 125
1,2-Dichlorobenzene	50.0	50.8		ug/L		102	70 - 125
1,3-Dichlorobenzene	50.0	49.3		ug/L		99	70 - 125
1,4-Dichlorobenzene	50.0	48.7		ug/L		97	70 - 125
Dichlorodifluoromethane	50.0	39.8		ug/L		80	51 - 140

TestAmerica Chicago

QC Sample Results

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

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

Lab Sample ID: LCS 500-363722/4

Matrix: Water

Analysis Batch: 363722

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	46.9		ug/L		94	70 - 125
1,2-Dichloroethane	50.0	50.0		ug/L		100	70 - 125
1,1-Dichloroethene	50.0	44.9		ug/L		90	70 - 125
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	70 - 125
trans-1,2-Dichloroethene	50.0	46.4		ug/L		93	70 - 125
1,2-Dichloropropane	50.0	51.4		ug/L		103	70 - 125
1,3-Dichloropropane	50.0	49.5		ug/L		99	70 - 125
2,2-Dichloropropane	50.0	43.4		ug/L		87	62 - 125
1,1-Dichloropropene	50.0	46.3		ug/L		93	70 - 125
cis-1,3-Dichloropropene	50.0	47.7		ug/L		95	70 - 125
trans-1,3-Dichloropropene	50.0	47.9		ug/L		96	70 - 125
Ethylbenzene	50.0	45.0		ug/L		90	70 - 125
Hexachlorobutadiene	50.0	46.9		ug/L		94	57 - 140
Isopropylbenzene	50.0	45.6		ug/L		91	70 - 125
p-Isopropyltoluene	50.0	46.2		ug/L		92	70 - 125
Methylene Chloride	50.0	47.7		ug/L		95	68 - 125
Methyl tert-butyl ether	50.0	52.8		ug/L		106	67 - 125
Naphthalene	50.0	55.2		ug/L		110	50 - 136
N-Propylbenzene	50.0	44.4		ug/L		89	70 - 125
Styrene	50.0	47.4		ug/L		95	70 - 125
1,1,1,2-Tetrachloroethane	50.0	49.1		ug/L		98	68 - 125
1,1,1,2,2-Tetrachloroethane	50.0	53.8		ug/L		108	68 - 125
Tetrachloroethene	50.0	49.4		ug/L		99	70 - 125
Toluene	50.0	47.0		ug/L		94	70 - 125
1,2,3-Trichlorobenzene	50.0	52.1		ug/L		104	58 - 135
1,2,4-Trichlorobenzene	50.0	50.7		ug/L		101	64 - 126
1,1,1-Trichloroethane	50.0	46.1		ug/L		92	70 - 125
1,1,2-Trichloroethane	50.0	50.7		ug/L		101	70 - 125
Trichloroethene	50.0	49.9		ug/L		100	70 - 125
Trichlorofluoromethane	50.0	44.0		ug/L		88	60 - 126
1,2,3-Trichloropropane	50.0	43.2		ug/L		86	63 - 125
1,2,4-Trimethylbenzene	50.0	44.5		ug/L		89	70 - 125
1,3,5-Trimethylbenzene	50.0	45.4		ug/L		91	70 - 125
Vinyl chloride	50.0	43.3		ug/L		87	70 - 126
Xylenes, Total	100	89.8		ug/L		90	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		71 - 127
Toluene-d8 (Surr)	91		75 - 120
4-Bromofluorobenzene (Surr)	91		71 - 120
Dibromofluoromethane	102		70 - 120

Lab Chronicle

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

Client Sample ID: Dragovich

Date Collected: 11/30/16 10:05

Date Received: 12/02/16 10:10

Lab Sample ID: 500-120900-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	363722	12/06/16 12:46	PJH	TAL CHI

Client Sample ID: MW-3

Date Collected: 11/30/16 10:30

Date Received: 12/02/16 10:10

Lab Sample ID: 500-120900-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	363722	12/06/16 13:13	PJH	TAL CHI

Client Sample ID: P-2

Date Collected: 11/30/16 10:55

Date Received: 12/02/16 10:10

Lab Sample ID: 500-120900-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	363722	12/06/16 13:40	PJH	TAL CHI

Client Sample ID: MW-5

Date Collected: 11/30/16 11:45

Date Received: 12/02/16 10:10

Lab Sample ID: 500-120900-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	363722	12/06/16 14:07	PJH	TAL CHI

Client Sample ID: MW-2

Date Collected: 11/30/16 12:25

Date Received: 12/02/16 10:10

Lab Sample ID: 500-120900-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	363722	12/06/16 14:34	PJH	TAL CHI

Client Sample ID: MW-4

Date Collected: 11/30/16 13:15

Date Received: 12/02/16 10:10

Lab Sample ID: 500-120900-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	363722	12/06/16 15:01	PJH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-120900-7

Date Collected: 11/30/16 00:00

Matrix: Water

Date Received: 12/02/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	363722	12/06/16 11:52	PJH	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Certification Summary

Client: Cedar Corporation
Project/Site: Dragovich & Boho Sites

TestAmerica Job ID: 500-120900-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17

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TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 61
Phone: 708.534.5200 Fax: 708.534.5200



500-120900 COC

Report To (optional)
Contact: Matt Taylor
Company: Cedar Corporation
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-120900
Chain of Custody Number: _____
Page _____ of _____
Temperature °C of Cooler: -0.3

Client		Client Project #		Preservative		Parameter		Comments	
Cedar Corporation				1				Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix		Comments	
Dragovich & Boho Sites		Sandie Fredrick		VOLS					
Project Location/State		Lab Project #		Date		Time		Comments	
Phillips, WI									
Sampler		Lab PM		Date		Time		Comments	
JAL		Sandie Fredrick							
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix			
1		Dragovich	11/30/16	1005	3	W	X		
2		MW-3	11/30/16	1030	3	W	X		
3		P-2	11/30/16	1055	3	W	X		
4		MW-5	11/30/16	1145	3	W	X		
5		MW-2	11/30/16	1225	3	W	X		
6		MW-4	11/30/16	1315	3	W	X		
7		Trip Blank	-	-	1	W	X		

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date _____

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

Relinquished By: <u>[Signature]</u> Company: <u>Cedar Corp</u> Date: <u>12/1/2016</u> Time: <u>1000</u>	Received By: <u>[Signature]</u> Company: <u>MA-CRT</u> Date: <u>12/2/16</u> Time: <u>1010</u>	Lab Courier: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Shipped: <u>FedEx</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments: _____
 Lab Comments: _____



Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-120900-1

Login Number: 120900

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	-0.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-135885-1
Client Project/Site: Collins Well - Park Falls

For:
Cedar Corporation
604 Wilson Avenue
Menomonie, Wisconsin 54751

Attn: Mitch Evenson



Authorized for release by:
10/27/2017 7:52:35 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Case Narrative

Client: Cedar Corporation
Project/Site: Collins Well - Park Falls

TestAmerica Job ID: 500-135885-1

Job ID: 500-135885-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-135885-1

Comments

No additional comments.

Receipt

The sample was received on 10/18/2017 10:25 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was -0.4° C.

GC/MS VOA

Method(s) 8260B: The following sample detected Methylene Chloride above the reporting limit: Collins Well (500-135885-1). The method blank 406625 associated with the sample did not detect Methylene Chloride. Since Methylene Chloride is a known lab contaminant and the results are just above the reporting limit; the results have been flagged with a "C" flag to denote the probable lab contamination.

Method(s) 8260B: The continuing calibration verification (CCV) and the laboratory control sample (LCS) associated with batch 406625 recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: Collins Well (500-135885-1).

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

Detection Summary

Client: Cedar Corporation
Project/Site: Collins Well - Park Falls

TestAmerica Job ID: 500-135885-1

Client Sample ID: Collins Well

Lab Sample ID: 500-135885-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzene	81		0.50	0.15	ug/L	1		8260B	Total/NA
Methylene Chloride	17	C	5.0	1.6	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	2.0		1.0	0.39	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



Method Summary

Client: Cedar Corporation
Project/Site: Collins Well - Park Falls

TestAmerica Job ID: 500-135885-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI

Protocol References:

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Sample Summary

Client: Cedar Corporation
Project/Site: Collins Well - Park Falls

TestAmerica Job ID: 500-135885-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-135885-1	Collins Well	Water	10/16/17 10:00	10/18/17 10:25

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Client Sample Results

Client: Cedar Corporation
Project/Site: Collins Well - Park Falls

TestAmerica Job ID: 500-135885-1

Client Sample ID: Collins Well

Lab Sample ID: 500-135885-1

Date Collected: 10/16/17 10:00

Matrix: Water

Date Received: 10/18/17 10:25

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	81		0.50	0.15	ug/L			10/24/17 18:46	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/24/17 18:46	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/24/17 18:46	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/24/17 18:46	1
Bromoform	<0.48		1.0	0.48	ug/L			10/24/17 18:46	1
Bromomethane	<0.80	^c *	2.0	0.80	ug/L			10/24/17 18:46	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/24/17 18:46	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/24/17 18:46	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/24/17 18:46	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/24/17 18:46	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/24/17 18:46	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/24/17 18:46	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/24/17 18:46	1
Chloroform	<0.37		2.0	0.37	ug/L			10/24/17 18:46	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/24/17 18:46	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/24/17 18:46	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/24/17 18:46	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/24/17 18:46	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/24/17 18:46	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/24/17 18:46	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/24/17 18:46	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/24/17 18:46	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/24/17 18:46	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/24/17 18:46	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/24/17 18:46	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/24/17 18:46	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/24/17 18:46	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/24/17 18:46	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/24/17 18:46	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/24/17 18:46	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/24/17 18:46	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/24/17 18:46	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/24/17 18:46	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/24/17 18:46	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/24/17 18:46	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/24/17 18:46	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/24/17 18:46	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/24/17 18:46	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/24/17 18:46	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/24/17 18:46	1
Methylene Chloride	17 C		5.0	1.6	ug/L			10/24/17 18:46	1
Methyl tert-butyl ether	2.0		1.0	0.39	ug/L			10/24/17 18:46	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/24/17 18:46	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/24/17 18:46	1
Styrene	<0.39		1.0	0.39	ug/L			10/24/17 18:46	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/24/17 18:46	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/17 18:46	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/24/17 18:46	1
Toluene	<0.15		0.50	0.15	ug/L			10/24/17 18:46	1

TestAmerica Chicago

Client Sample Results

Client: Cedar Corporation
 Project/Site: Collins Well - Park Falls

TestAmerica Job ID: 500-135885-1

Client Sample ID: Collins Well

Lab Sample ID: 500-135885-1

Date Collected: 10/16/17 10:00

Matrix: Water

Date Received: 10/18/17 10:25

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/24/17 18:46	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/24/17 18:46	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/24/17 18:46	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/24/17 18:46	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/24/17 18:46	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/24/17 18:46	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/24/17 18:46	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/24/17 18:46	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/24/17 18:46	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			10/24/17 18:46	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/24/17 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		75 - 126					10/24/17 18:46	1
Toluene-d8 (Surr)	91		75 - 120					10/24/17 18:46	1
4-Bromofluorobenzene (Surr)	89		72 - 124					10/24/17 18:46	1
Dibromofluoromethane	106		75 - 120					10/24/17 18:46	1

Definitions/Glossary

Client: Cedar Corporation
Project/Site: Collins Well - Park Falls

TestAmerica Job ID: 500-135885-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
^c	CCV Recovery is outside acceptance limits.
C	See Case Narrative

Glossary

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

QC Association Summary

Client: Cedar Corporation
Project/Site: Collins Well - Park Falls

TestAmerica Job ID: 500-135885-1

GC/MS VOA

Analysis Batch: 406625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-135885-1	Collins Well	Total/NA	Water	8260B	
MB 500-406625/6	Method Blank	Total/NA	Water	8260B	
LCS 500-406625/4	Lab Control Sample	Total/NA	Water	8260B	

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Surrogate Summary

Client: Cedar Corporation
Project/Site: Collins Well - Park Falls

TestAmerica Job ID: 500-135885-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE (75-126)	TOL (75-120)	BFB (72-124)	DBFM (75-120)
500-135885-1	Collins Well	93	91	89	106
LCS 500-406625/4	Lab Control Sample	88	96	92	100
MB 500-406625/6	Method Blank	94	92	91	105

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

QC Sample Results

Client: Cedar Corporation
Project/Site: Collins Well - Park Falls

TestAmerica Job ID: 500-135885-1

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

Lab Sample ID: MB 500-406625/6

Matrix: Water

Analysis Batch: 406625

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/24/17 10:20	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/24/17 10:20	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/24/17 10:20	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/24/17 10:20	1
Bromoform	<0.48		1.0	0.48	ug/L			10/24/17 10:20	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/24/17 10:20	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/24/17 10:20	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/24/17 10:20	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/24/17 10:20	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/24/17 10:20	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/24/17 10:20	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/24/17 10:20	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/24/17 10:20	1
Chloroform	<0.37		2.0	0.37	ug/L			10/24/17 10:20	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/24/17 10:20	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/24/17 10:20	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/24/17 10:20	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/24/17 10:20	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/24/17 10:20	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/24/17 10:20	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/24/17 10:20	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/24/17 10:20	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/24/17 10:20	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/24/17 10:20	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/24/17 10:20	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/24/17 10:20	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/24/17 10:20	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/24/17 10:20	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/24/17 10:20	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/24/17 10:20	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/24/17 10:20	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/24/17 10:20	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/24/17 10:20	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/24/17 10:20	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/24/17 10:20	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/24/17 10:20	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/24/17 10:20	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/24/17 10:20	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/24/17 10:20	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/24/17 10:20	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/24/17 10:20	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/24/17 10:20	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/24/17 10:20	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/24/17 10:20	1
Styrene	<0.39		1.0	0.39	ug/L			10/24/17 10:20	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/24/17 10:20	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/17 10:20	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/24/17 10:20	1

TestAmerica Chicago

QC Sample Results

Client: Cedar Corporation
Project/Site: Collins Well - Park Falls

TestAmerica Job ID: 500-135885-1

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

Lab Sample ID: MB 500-406625/6
Matrix: Water
Analysis Batch: 406625

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.15		0.50	0.15	ug/L			10/24/17 10:20	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/24/17 10:20	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/24/17 10:20	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/24/17 10:20	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/24/17 10:20	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/24/17 10:20	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/24/17 10:20	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/24/17 10:20	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/24/17 10:20	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/24/17 10:20	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			10/24/17 10:20	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/24/17 10:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		75 - 126		10/24/17 10:20	1
Toluene-d8 (Surr)	92		75 - 120		10/24/17 10:20	1
4-Bromofluorobenzene (Surr)	91		72 - 124		10/24/17 10:20	1
Dibromofluoromethane	105		75 - 120		10/24/17 10:20	1

Lab Sample ID: LCS 500-406625/4
Matrix: Water
Analysis Batch: 406625

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	46.2		ug/L		92	70 - 120
Bromobenzene	50.0	49.2		ug/L		98	70 - 122
Bromochloromethane	50.0	51.5		ug/L		103	65 - 122
Bromodichloromethane	50.0	48.7		ug/L		97	69 - 120
Bromoform	50.0	50.9		ug/L		102	56 - 132
Bromomethane	50.0	73.4	*	ug/L		147	40 - 130
n-Butylbenzene	50.0	49.1		ug/L		98	68 - 125
sec-Butylbenzene	50.0	49.9		ug/L		100	70 - 123
tert-Butylbenzene	50.0	50.1		ug/L		100	70 - 121
Carbon tetrachloride	50.0	51.5		ug/L		103	65 - 122
Chlorobenzene	50.0	49.9		ug/L		100	70 - 120
Dibromochloromethane	50.0	51.9		ug/L		104	68 - 125
Chloroethane	50.0	45.3		ug/L		91	45 - 127
Chloroform	50.0	47.5		ug/L		95	70 - 120
Chloromethane	50.0	34.6		ug/L		69	54 - 147
2-Chlorotoluene	50.0	48.7		ug/L		97	70 - 125
4-Chlorotoluene	50.0	48.1		ug/L		96	68 - 124
1,2-Dibromo-3-Chloropropane	50.0	42.1		ug/L		84	56 - 123
1,2-Dibromoethane	50.0	50.3		ug/L		101	70 - 125
Dibromomethane	50.0	49.0		ug/L		98	70 - 120
1,2-Dichlorobenzene	50.0	50.3		ug/L		101	70 - 125
1,3-Dichlorobenzene	50.0	51.1		ug/L		102	70 - 125
1,4-Dichlorobenzene	50.0	50.7		ug/L		101	70 - 120
Dichlorodifluoromethane	50.0	39.5		ug/L		79	40 - 150

TestAmerica Chicago

QC Sample Results

Client: Cedar Corporation
Project/Site: Collins Well - Park Falls

TestAmerica Job ID: 500-135885-1

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

Lab Sample ID: LCS 500-406625/4
Matrix: Water
Analysis Batch: 406625

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	47.6		ug/L		95	70 - 125
1,2-Dichloroethane	50.0	43.5		ug/L		87	68 - 127
1,1-Dichloroethene	50.0	50.2		ug/L		100	67 - 122
cis-1,2-Dichloroethene	50.0	49.6		ug/L		99	70 - 125
trans-1,2-Dichloroethene	50.0	50.2		ug/L		100	70 - 125
1,2-Dichloropropane	50.0	49.1		ug/L		98	67 - 130
1,3-Dichloropropane	50.0	47.1		ug/L		94	62 - 136
2,2-Dichloropropane	50.0	41.9		ug/L		84	58 - 129
1,1-Dichloropropene	50.0	47.8		ug/L		96	70 - 121
cis-1,3-Dichloropropene	50.0	43.3		ug/L		87	64 - 127
trans-1,3-Dichloropropene	50.0	44.0		ug/L		88	62 - 128
Ethylbenzene	50.0	48.8		ug/L		98	70 - 120
Hexachlorobutadiene	50.0	50.2		ug/L		100	51 - 150
Isopropylbenzene	50.0	49.9		ug/L		100	70 - 126
p-Isopropyltoluene	50.0	50.0		ug/L		100	70 - 125
Methylene Chloride	50.0	49.8		ug/L		100	69 - 125
Methyl tert-butyl ether	50.0	35.0		ug/L		70	70 - 120
Naphthalene	50.0	41.7		ug/L		83	59 - 130
N-Propylbenzene	50.0	49.8		ug/L		100	69 - 127
Styrene	50.0	49.2		ug/L		98	70 - 120
1,1,1,2-Tetrachloroethane	50.0	51.5		ug/L		103	70 - 125
1,1,1,2,2-Tetrachloroethane	50.0	47.9		ug/L		96	67 - 127
Tetrachloroethene	50.0	49.1		ug/L		98	70 - 128
Toluene	50.0	45.6		ug/L		91	70 - 125
1,2,3-Trichlorobenzene	50.0	44.9		ug/L		90	55 - 140
1,2,4-Trichlorobenzene	50.0	43.4		ug/L		87	66 - 127
1,1,1-Trichloroethane	50.0	48.4		ug/L		97	70 - 125
1,1,2-Trichloroethane	50.0	48.6		ug/L		97	70 - 122
Trichloroethene	50.0	52.3		ug/L		105	70 - 125
Trichlorofluoromethane	50.0	47.5		ug/L		95	70 - 126
1,2,3-Trichloropropane	50.0	43.4		ug/L		87	50 - 133
1,2,4-Trimethylbenzene	50.0	48.2		ug/L		96	70 - 123
1,3,5-Trimethylbenzene	50.0	48.2		ug/L		96	70 - 123
Vinyl chloride	50.0	50.2		ug/L		100	64 - 126
Xylenes, Total	100	92.4		ug/L		92	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	88		75 - 126
Toluene-d8 (Surr)	96		75 - 120
4-Bromofluorobenzene (Surr)	92		72 - 124
Dibromofluoromethane	100		75 - 120

Lab Chronicle

Client: Cedar Corporation
Project/Site: Collins Well - Park Falls

TestAmerica Job ID: 500-135885-1

Client Sample ID: Collins Well

Lab Sample ID: 500-135885-1

Date Collected: 10/16/17 10:00

Matrix: Water

Date Received: 10/18/17 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	406625	10/24/17 18:46	PMF	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Accreditation/Certification Summary

Client: Cedar Corporation
Project/Site: Collins Well - Park Falls

TestAmerica Job ID: 500-135885-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-18

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-135885
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: -0.4

Client		Client Project #		Preservative														Preservative Key	
Project Name				Parameter														1. HCL, Cool to 4°	
Project Location/State		Lab Project #																2. H2SO4, Cool to 4°	
Sampler		Lab PM																3. HNO3, Cool to 4°	
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix											Comments		
			Date	Time															
1		Collins Well	10/16	10:00	3	X													



500-135885 COC

Turnaround Time Required (Business Days): ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other
 Requested Due Date: _____

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

Relinquished By: <i>[Signature]</i> Cedar Corp Company: Cedar Corp Date: 10-17-17 Time: 6:00am	Received By: <i>[Signature]</i> TARA Company: TARA Date: 10/18/17 Time: 1025	Lab Courier: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Shipped: <i>EX Priority</i>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

Matrix Key

WW - Wastewater
 W - Water
 S - Soil
 SL - Sludge
 MS - Miscellaneous
 OL - Oil
 A - Air

SE - Sediment
 SO - Soil
 L - Leachate
 WI - Wipe
 DW - Drinking Water
 O - Other

Client Comments: _____

Lab Comments: _____

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Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-135885-1

Login Number: 135885

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	-0.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ACCESS AGREEMENT

I hereby give my permission to the Wisconsin Department of Natural Resources and its employees, duly authorized representatives, agents and contractors, to enter upon and have access at reasonable times to the property located at 586 S. Eyder Avenue, Phillips, WI, that is owned by Anne C. Collins in Section 18, T37N, R10E, City of Phillips, Price County, WI, for the following purposes, so that the Department of Natural Resources may conduct groundwater and drinking water monitoring:

- 1) To maintain ground water monitoring wells;
- 2) To collect water samples; and
- 3) To properly abandon the ground water monitoring wells/soil borings when no longer needed;
- 4) To gain access (drive vehicles) to areas where remedial action or investigative work is to be conducted;

The permission that is granted herein shall remain in effect for two years. If the property owner wishes to withdraw permission for continued access, the property owner shall notify the Department of Natural Resources of that fact. The Department shall, within 90 days after receiving such notice, either discontinue the investigation and abandon ~~any~~ wells that remain on the property or obtain a court order to allow continued access.

excluding the drinking water well. AC

When water samples are collected on the property described above, split samples will be provided to the property owner, if the property owner requests split samples and provides sample containers before the samples are collected.

The property owner agrees not to damage, or interfere with the use of, any monitoring well or equipment that is installed or in use on the property as permitted herein, and agrees to notify third parties who plan to conduct any activity on the property described above that monitoring wells/monitoring equipment have been installed on the property.

IN WITNESS WHEREOF:

Signature *Anne Collins*

Date *11-16-16*

Address *2340 N. 69th St.
Wauwatosa, WI*

Phone Number *(414) 453-3201*

ACCESS AGREEMENT

I hereby give my permission to the Wisconsin Department of Natural Resources and its employees, duly authorized representatives, agents and contractors, to enter upon and have access at reasonable times to the property located at 556 S. Eyder Avenue, Phillips, WI, that is owned by Thomas Obadal in Section 18, T37N, R10E, City of Phillips, Price County, WI, for the following purposes, so that the Department of Natural Resources may conduct groundwater and drinking water monitoring:

- 1) To maintain ground water monitoring wells;
- 2) To collect water samples; and
- 3) To properly abandon the ground water monitoring wells/soil borings when no longer needed;
- 4) To gain access (drive vehicles) to areas where remedial action or investigative work is to be conducted;

The permission that is granted herein shall remain in effect for two years. If the property owner wishes to withdraw permission for continued access, the property owner shall notify the Department of Natural Resources of that fact. The Department shall, within 90 days after receiving such notice, either discontinue the investigation and abandon any wells that remain on the property or obtain a court order to allow continued access.

When water samples are collected on the property described above, split samples will be provided to the property owner, if the property owner requests split samples and provides sample containers before the samples are collected.

The property owner agrees not to damage, or interfere with the use of, any monitoring well or equipment that is installed or in use on the property as permitted herein, and agrees to notify third parties who plan to conduct any activity on the property described above that monitoring wells/monitoring equipment have been installed on the property.

IN WITNESS WHEREOF:

Signature



Date

11-15-16

Address

N8281 Storms Rd.
Phillips, WI 54555

Phone Number

715-339-3992