

From: Anna Beckman <anna.beckman@cedarcorp.com>
Sent: Monday, December 16, 2019 10:33 AM
To: Stoltz, Carrie R - DNR
Cc: Mitch Evenson
Subject: Olson Corners Residential Confirmation Sample
Attachments: J173998-1 UDS Level 2 Report Final Report.pdf

Good morning Carrie,

Attached are the confirmation results for the water samples collected for the Webster and Olson wells at Olson Corners. Looks like the Webster well (utilized by the Witkowski residence) has exceeded the PAL for benzene again. Please let me know how you'd like to proceed.

Thanks,

Anna Beckman

Staff Geologist

Cedar Corporation

604 Wilson Avenue | Menomonie | WI | 54751

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www.cedarcorp.com | [LinkedIn](#) | [Facebook](#) | [Twitter](#)

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ANALYTICAL REPORT

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

Laboratory Job ID: 500-173998-1
Client Project/Site: Olson Corners

For:

Cedar Corporation
604 Wilson Avenue
Menomonie, Wisconsin 54751

Attn: Mitch Evenson



Authorized for release by:
12/3/2019 9:29:40 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: Olson Corners

Job ID: 500-173998-1

Job ID: 500-173998-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-173998-1

Comments

No additional comments.

Receipt

The samples were received on 11/22/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.5° C.

GC/MS VOA

Method 8260B: The method blank for analytical batch 518320 contained Naphthalene above the Method detection limit (MDL) but below reporting limit (RL). Naphthalene was non-detect in the samples: therefore, no re-analysis was done and the data has been reported.

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: Olson Corners

Job ID: 500-173998-1

Client Sample ID: Webster

Lab Sample ID: 500-173998-1

No Detections.

Client Sample ID: Witkowski

Lab Sample ID: 500-173998-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.1		0.50	0.15	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago



Method Summary

Client: Cedar Corporation
Project/Site: Olson Corners

Job ID: 500-173998-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
5030B	Purge and Trap	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 = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Cedar Corporation
Project/Site: Olson Corners

Job ID: 500-173998-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-173998-1	Webster	Water	11/20/19 09:30	11/22/19 09:00	
500-173998-2	Witkowski	Water	11/20/19 09:45	11/22/19 09:00	

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Client Sample Results

Client: Cedar Corporation
Project/Site: Olson Corners

Job ID: 500-173998-1

Client Sample ID: Webster

Lab Sample ID: 500-173998-1

Date Collected: 11/20/19 09:30

Matrix: Water

Date Received: 11/22/19 09:00

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			12/03/19 11:57	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/03/19 11:57	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/03/19 11:57	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/03/19 11:57	1
Toluene	<0.15		0.50	0.15	ug/L			12/03/19 11:57	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/03/19 11:57	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/03/19 11:57	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/03/19 11:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		72 - 124		12/03/19 11:57	1
Dibromofluoromethane (Surr)	99		75 - 120		12/03/19 11:57	1
1,2-Dichloroethane-d4 (Surr)	100		75 - 126		12/03/19 11:57	1
Toluene-d8 (Surr)	112		75 - 120		12/03/19 11:57	1

Client Sample ID: Witkowski

Lab Sample ID: 500-173998-2

Date Collected: 11/20/19 09:45

Matrix: Water

Date Received: 11/22/19 09:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.1		0.50	0.15	ug/L			12/03/19 12:21	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/03/19 12:21	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/03/19 12:21	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/03/19 12:21	1
Toluene	<0.15		0.50	0.15	ug/L			12/03/19 12:21	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/03/19 12:21	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/03/19 12:21	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/03/19 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		72 - 124		12/03/19 12:21	1
Dibromofluoromethane (Surr)	99		75 - 120		12/03/19 12:21	1
1,2-Dichloroethane-d4 (Surr)	101		75 - 126		12/03/19 12:21	1
Toluene-d8 (Surr)	118		75 - 120		12/03/19 12:21	1

Definitions/Glossary

Client: Cedar Corporation
Project/Site: Olson Corners

Job ID: 500-173998-1

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.
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: Olson Corners

Job ID: 500-173998-1

GC/MS VOA

Analysis Batch: 518320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-173998-1	Webster	Total/NA	Water	8260B	
500-173998-2	Witkowski	Total/NA	Water	8260B	
MB 500-518320/6	Method Blank	Total/NA	Water	8260B	
LCS 500-518320/4	Lab Control Sample	Total/NA	Water	8260B	

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Surrogate Summary

Client: Cedar Corporation
Project/Site: Olson Corners

Job ID: 500-173998-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(72-124)	(75-120)	(75-126)	(75-120)
500-173998-1	Webster	89	99	100	112
500-173998-2	Witkowski	90	99	101	118
LCS 500-518320/4	Lab Control Sample	76	103	105	113
MB 500-518320/6	Method Blank	89	106	111	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Cedar Corporation
Project/Site: Olson Corners

Job ID: 500-173998-1

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

Lab Sample ID: MB 500-518320/6
Matrix: Water
Analysis Batch: 518320

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			12/03/19 10:22	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/03/19 10:22	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/03/19 10:22	1
Naphthalene	0.412	J	1.0	0.34	ug/L			12/03/19 10:22	1
Toluene	<0.15		0.50	0.15	ug/L			12/03/19 10:22	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/03/19 10:22	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/03/19 10:22	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/03/19 10:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		72 - 124		12/03/19 10:22	1
Dibromofluoromethane (Surr)	106		75 - 120		12/03/19 10:22	1
1,2-Dichloroethane-d4 (Surr)	111		75 - 126		12/03/19 10:22	1
Toluene-d8 (Surr)	102		75 - 120		12/03/19 10:22	1

Lab Sample ID: LCS 500-518320/4
Matrix: Water
Analysis Batch: 518320

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	48.8		ug/L		98	70 - 120
Ethylbenzene	50.0	54.8		ug/L		110	70 - 123
Methyl tert-butyl ether	50.0	50.1		ug/L		100	55 - 123
Naphthalene	50.0	41.7		ug/L		83	53 - 144
Toluene	50.0	51.7		ug/L		103	70 - 125
1,2,4-Trimethylbenzene	50.0	46.1		ug/L		92	70 - 123
1,3,5-Trimethylbenzene	50.0	41.2		ug/L		82	70 - 123
Xylenes, Total	100	107		ug/L		107	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	76		72 - 124
Dibromofluoromethane (Surr)	103		75 - 120
1,2-Dichloroethane-d4 (Surr)	105		75 - 126
Toluene-d8 (Surr)	113		75 - 120

Lab Chronicle

Client: Cedar Corporation
Project/Site: Olson Corners

Job ID: 500-173998-1

Client Sample ID: Webster

Date Collected: 11/20/19 09:30

Date Received: 11/22/19 09:00

Lab Sample ID: 500-173998-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	518320	12/03/19 11:57	JLC	TAL CHI

Client Sample ID: Witkowski

Date Collected: 11/20/19 09:45

Date Received: 11/22/19 09:00

Lab Sample ID: 500-173998-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	518320	12/03/19 12:21	JLC	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Cedar Corporation
Project/Site: Olson Corners

Job ID: 500-173998-1


Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State Program	999580010	08-31-20

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Chain of Custody Record

Client Information		Sampler: AMB		Lab PM: Fredrick, Sandie		Carrier Tracking No(s): 71254941 3395		COC No: 500-77013-35747.1	
Client Contact: Mitch Evenson		Phone: 715-235-9081		E-Mail: sandie.fredrick@testamericainc.com				Page: Page 1 of 1	
Company: Cedar Corporation				Analysis Requested				Job #:	
Address: 604 Wilson Avenue		Due Date Requested:		Field Filtered Sample (Yes or No) Performed MS/MSD (Yes or No) PVIC's + Naphthalene		 500-173998 COC		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDTA Z - other (specify) Other:	
City: Menomonie		TAT Requested (days):							
State, Zip: WI, 54751		PO #:							
Phone: 715-235-9081 (Tel)		Purchase Order not required							
Email: mitch_evenson@cedarcorp.com		WO #:							
Project Name: Olson Corners		Project #: 50006557							
Site: Hannibal, WI		SSOW#:							
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Performed MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note:
				Preservation Code					
1 Webster		11/20/19	0930	G	Water	N	X		
2 Witkowski		11/20/19	0945	G	Water	N	X		
					Water				
					Water				
					Water				
					Water				
					Water				
					Water				
					Water				
					Water				
					Water				
					Water				
Possible Hazard Identification								Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological								<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: Anna Beckner		Date/Time: 11/20/19 0900		Company: Cedar		Received by: Paula Puchley		Date/Time: 11/22/19 0900	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks: 5.5			

ORIGIN ID:RRLA (715) 235-9081
MITCH EVENSON
CEDAR CORPORATION
604 WILSON AVE

MENOMONIE, WI 54751
UNITED STATES US

SHIP DATE: 12NOV19
ACTWGT: 20.00 LB MAN
CAD: 525155/CAFE3211

TO

TESTAMERICA CHICAGO
2417 BOND STREET

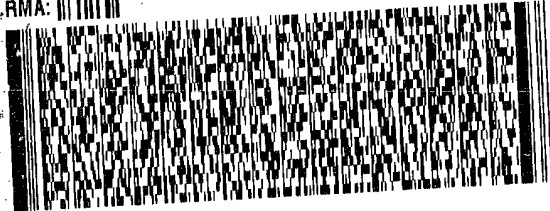
UNIVERSITY PARK IL 60484-3101

(708) 634-6200

REF:

DEPT:

RMA: ||| ||| |||



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Express



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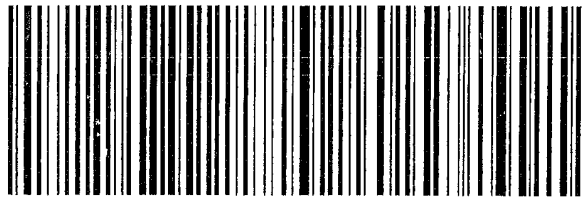
FedEx

TRK#
0221 7125 4941 3395

RETURNS MON-SAT
FRI - 22 NOV 10:30A
PRIORITY OVERNIGHT

GE JOTA

60484
IL-US
ORD



FD 543099 21NOV19 EAM 56AC1/F330/05A2



500-173998 Waybill

Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-173998-1

Login Number: 173998

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Buckley, Paula 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	5.5
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	