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February 25, 2020

Ms. Becky Jolly
Iowa Department of Natural Resources
Land Quality Bureau
502 E. 9th Street
Des Moines, Iowa 50319

Dear Ms. Jolly:

Re: Fluff Quarterly Sampling Results
Alter Metal Recycling - Council Bluffs, Iowa
1st Quarter 2021 – February 2021

CJF Associates, LLC (CJF) is pleased to submit this report on behalf of Alter Trading Corporation, Council Bluffs, Iowa (Alter). This report presents the quarterly fluff sampling results as identified above.

Summary

- PCBs concentration this quarter: 24 mg/kg;
- Ten-Sample Rolling PCBs Average: 13.38 mg/kg;
- PCBs TCLP result this quarter is non-detect; and
- All TCLP metal results are below regulatory criteria.

Based on the analytical results; the fluff may be landfilled in Iowa per IAC 567, Chapter 118.

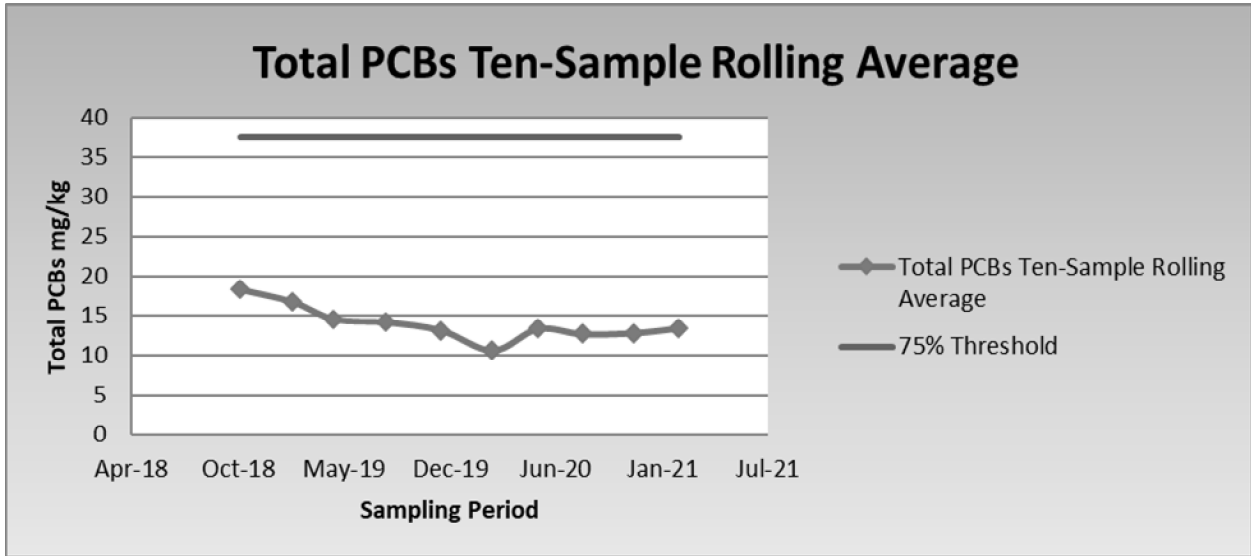
Details

In order to characterize the fluff, samples were collected and analyzed from the bulk seven-day composite sample. The composite sample was collected from January 5, 2021 through January 21, 2021 in accordance with IAC 567, Chapter 118. Samples were analyzed for total Polychlorinated Biphenyls (PCBs), Toxic Characteristic Leaching Procedure (TCLP) PCBs, and TCLP Resource Conservation and Recovery Act (RCRA) metals.

Total PCBs results for the sampling period totaled 24 mg/kg. TCLP PCBs were not detected above the laboratory reporting limit. Barium, cadmium, and lead were the only RCRA metal identified above the laboratory reporting limits but below regulatory TCLP concentrations. The reported concentration for lead was identified at 0.25 mg/L which does not exceed the regulatory TCLP concentration of 5.0 mg/L. The present ten-sample rolling average for PCBs is 13.38 mg/kg. Rolling averages of the ten-sampling period results for total PCBs are presented below:



February 25, 2020



First quarter analytical results are summarized as follows:

Sample ID	Analyte										Ignitability ²
	Total PCBs ¹	TCLP PCBs	TCLP Arsenic	TCLP Barium	TCLP Cad	TCLP Chrom	TCLP Lead	TCLP Sel	TCLP Silver	TCLP Mercury	
ZCSF-020421-001	24	ND	ND	0.76	0.2	ND	0.25	ND	ND	ND	>215

Notes: All TCLP results are reported in mg/L ND = Not Detected Above Laboratory Detection Limits
 (1) Results reported in mg/kg NA = Not Analyzed
 (2) Results reported in degrees Fahrenheit

Laboratory analytical results and chain of custody forms are presented in Attachment A.

If you have any questions, please contact Frank W. Ring at (313) 999-4071.

Sincerely,
CJF Associates, LLC

Frank W. Ring, P.E.

Encl.
 CC: Ryan Carpenter, Alter
 Herb Handel, Iowa Waste Systems Inc.

ATTACHMENT A

LABORATORY ANALYTICAL RESULTS

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-144114-1
Client Project/Site: Council Bluffs, 1216-01

For:

CJF Associates, LLC
PO BOX 80815
St. Claire Shores, Michigan 48080

Attn: Charles Ring



*Authorized for release by:
2/19/2021 1:45:30 PM*

Denise Heckler, Project Manager II
(330)966-9477
Denise.Heckler@Eurofinset.com

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

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



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Definitions/Glossary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-144114-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Case Narrative

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-144114-1

Job ID: 240-144114-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-144114-1

Comments

No additional comments.

Receipt

The samples were received on 2/5/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.4° C.

GC Semi VOA

Method 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 310-306848 and 310-307105 and analytical batch 310-307331 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: ZCSF-020421-001 (240-144114-1). Elevated reporting limits (RLs) are provided.

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

Metals

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

General Chemistry

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

Organic Prep

Method 1311: Tumbled in plastic due to matrix: ZCSF-020421-001 (240-144114-1)

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

Method Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-144114-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CF
PCB	Total PCB Calculation	TAL SOP	TAL CF
6010C	Metals (ICP)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF
D92	Flashpoint	ASTM	TAL CF
Moisture	Percent Moisture	EPA	TAL CF
1311	TCLP Extraction	SW846	TAL CF
3010A	Preparation, Total Metals	SW846	TAL CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CF
3550B	Ultrasonic Extraction	SW846	TAL CF
7470A	Preparation, Mercury	SW846	TAL CF

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Sample Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-144114-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-144114-1	ZCSF-020421-001	Solid	02/04/21 14:00	02/05/21 10:00	
240-144114-2	ZCSF-020421-001 DUP	Solid	02/04/21 14:00	02/05/21 10:00	

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Detection Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-144114-1

Client Sample ID: ZCSF-020421-001

Lab Sample ID: 240-144114-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	24	p	19	2.1	mg/Kg	50	✳	8082A	Total/NA
Total PCBs	24		19	2.1	mg/Kg	1		PCB	Total/NA
Barium	0.76	J	1.5	0.33	mg/L	3		6010C	TCLP
Cadmium	0.20		0.060	0.013	mg/L	3		6010C	TCLP
Lead	0.25	J	0.30	0.096	mg/L	3		6010C	TCLP
Flashpoint	>215		40.0	40.0	Degrees F	1		D92	Total/NA

Client Sample ID: ZCSF-020421-001 DUP

Lab Sample ID: 240-144114-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Client Sample Results

Client: CJF Associates, LLC
 Project/Site: Council Bluffs, 1216-01

Job ID: 240-144114-1

Client Sample ID: ZCSF-020421-001

Lab Sample ID: 240-144114-1

Date Collected: 02/04/21 14:00

Matrix: Solid

Date Received: 02/05/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F1	4.0	1.3	ug/L		02/11/21 10:44	02/16/21 11:37	1
PCB-1221	ND		4.0	1.3	ug/L		02/11/21 10:44	02/16/21 11:37	1
PCB-1232	ND		4.0	1.3	ug/L		02/11/21 10:44	02/16/21 11:37	1
PCB-1242	ND		4.0	1.3	ug/L		02/11/21 10:44	02/16/21 11:37	1
PCB-1248	ND		4.0	1.1	ug/L		02/11/21 10:44	02/16/21 11:37	1
PCB-1254	ND		4.0	1.1	ug/L		02/11/21 10:44	02/16/21 11:37	1
PCB-1260	ND		4.0	1.1	ug/L		02/11/21 10:44	02/16/21 11:37	1
PCB-1268	ND		4.0	1.1	ug/L		02/11/21 10:44	02/16/21 11:37	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		02/11/21 10:44	02/16/21 11:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	85		10 - 119				02/11/21 10:44	02/16/21 11:37	1
Tetrachloro-m-xylene	89		14 - 110				02/11/21 10:44	02/16/21 11:37	1

Method: PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PCBs	24		19	2.1	mg/Kg			02/18/21 08:13	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.30	0.15	mg/L		02/09/21 08:27	02/10/21 13:28	3
Barium	0.76	J	1.5	0.33	mg/L		02/09/21 08:27	02/10/21 13:28	3
Cadmium	0.20		0.060	0.013	mg/L		02/09/21 08:27	02/10/21 13:28	3
Chromium	ND		0.060	0.026	mg/L		02/09/21 08:27	02/10/21 13:28	3
Lead	0.25	J	0.30	0.096	mg/L		02/09/21 08:27	02/10/21 13:28	3
Selenium	ND		0.30	0.19	mg/L		02/09/21 08:27	02/10/21 13:28	3
Silver	ND		0.060	0.026	mg/L		02/09/21 08:27	02/10/21 13:28	3

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0015	mg/L		02/09/21 13:49	02/10/21 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>215		40.0	40.0	Degrees F			02/08/21 12:31	1
Percent Moisture	11.8		0.1	0.1	%			02/08/21 08:35	1
Percent Solids	88.2		0.1	0.1	%			02/08/21 08:35	1

Client Sample Results

Client: CJF Associates, LLC
 Project/Site: Council Bluffs, 1216-01

Job ID: 240-144114-1

Client Sample ID: ZCSF-020421-001

Lab Sample ID: 240-144114-1

Date Collected: 02/04/21 14:00

Matrix: Solid

Date Received: 02/05/21 10:00

Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.38	0.0099	mg/Kg	✳	02/09/21 12:22	02/10/21 13:18	1
PCB-1221	ND		0.38	0.10	mg/Kg	✳	02/09/21 12:22	02/10/21 13:18	1
PCB-1232	ND		0.38	0.038	mg/Kg	✳	02/09/21 12:22	02/10/21 13:18	1
PCB-1242	24	p	19	2.1	mg/Kg	✳	02/09/21 12:22	02/18/21 15:30	50
PCB-1248	ND		0.38	0.026	mg/Kg	✳	02/09/21 12:22	02/10/21 13:18	1
PCB-1254	ND		0.38	0.024	mg/Kg	✳	02/09/21 12:22	02/10/21 13:18	1
PCB-1260	ND		0.38	0.013	mg/Kg	✳	02/09/21 12:22	02/10/21 13:18	1
PCB-1268	ND		0.38	0.0054	mg/Kg	✳	02/09/21 12:22	02/10/21 13:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl (Surr)</i>	71		10 - 136				02/09/21 12:22	02/10/21 13:18	1
<i>Tetrachloro-m-xylene</i>	49		21 - 110				02/09/21 12:22	02/10/21 13:18	1

Client Sample Results

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-144114-1

Client Sample ID: ZCSF-020421-001 DUP

Lab Sample ID: 240-144114-2

Date Collected: 02/04/21 14:00

Matrix: Solid

Date Received: 02/05/21 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.8		0.1	0.1	%			02/08/21 08:35	1
Percent Solids	88.2		0.1	0.1	%			02/08/21 08:35	1

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Surrogate Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-144114-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (10-136)	TCX1 (21-110)
240-144114-1	ZCSF-020421-001	71	49
LCS 310-306902/2-A	Lab Control Sample	96	95
LCSD 310-306902/3-A	Lab Control Sample Dup	106	105
MB 310-306902/1-A	Method Blank	101	99

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

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

Matrix: Solid

Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB2 (10-119)	TCX2 (14-110)
240-144114-1	ZCSF-020421-001	85	89
240-144114-1 MS	ZCSF-020421-001	96	108
240-144114-1 MSD	ZCSF-020421-001	65	59
LB 310-306848/1-B	Method Blank	115	90
LCS 310-306848/2-B	Lab Control Sample	73	66

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: CJF Associates, LLC
 Project/Site: Council Bluffs, 1216-01

Job ID: 240-144114-1

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

Lab Sample ID: MB 310-306902/1-A
Matrix: Solid
Analysis Batch: 306980

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 306902

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		0.025	0.00065	mg/Kg		02/09/21 12:22	02/10/21 12:39	1
PCB-1221	ND		0.025	0.0067	mg/Kg		02/09/21 12:22	02/10/21 12:39	1
PCB-1232	ND		0.025	0.0025	mg/Kg		02/09/21 12:22	02/10/21 12:39	1
PCB-1242	ND		0.025	0.0027	mg/Kg		02/09/21 12:22	02/10/21 12:39	1
PCB-1248	ND		0.025	0.0017	mg/Kg		02/09/21 12:22	02/10/21 12:39	1
PCB-1254	ND		0.025	0.0016	mg/Kg		02/09/21 12:22	02/10/21 12:39	1
PCB-1260	ND		0.025	0.00085	mg/Kg		02/09/21 12:22	02/10/21 12:39	1
PCB-1268	ND		0.025	0.00035	mg/Kg		02/09/21 12:22	02/10/21 12:39	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	101		10 - 136	02/09/21 12:22	02/10/21 12:39	1
Tetrachloro-m-xylene	99		21 - 110	02/09/21 12:22	02/10/21 12:39	1

Lab Sample ID: LCS 310-306902/2-A
Matrix: Solid
Analysis Batch: 306980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 306902

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
PCB-1016	0.195	0.193		mg/Kg		99	33 - 113
PCB-1260	0.195	0.195		mg/Kg		100	30 - 111

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	96		10 - 136
Tetrachloro-m-xylene	95		21 - 110

Lab Sample ID: LCSD 310-306902/3-A
Matrix: Solid
Analysis Batch: 306980

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 306902

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier						
PCB-1016	0.197	0.211		mg/Kg		107	33 - 113	9	34
PCB-1260	0.197	0.215		mg/Kg		109	30 - 111	10	29

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	106		10 - 136
Tetrachloro-m-xylene	105		21 - 110

Lab Sample ID: LB 310-306848/1-B
Matrix: Solid
Analysis Batch: 307331

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 307105

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		4.0	1.3	ug/L		02/11/21 10:44	02/16/21 10:49	1
PCB-1221	ND		4.0	1.3	ug/L		02/11/21 10:44	02/16/21 10:49	1
PCB-1232	ND		4.0	1.3	ug/L		02/11/21 10:44	02/16/21 10:49	1
PCB-1242	ND		4.0	1.3	ug/L		02/11/21 10:44	02/16/21 10:49	1
PCB-1248	ND		4.0	1.1	ug/L		02/11/21 10:44	02/16/21 10:49	1
PCB-1254	ND		4.0	1.1	ug/L		02/11/21 10:44	02/16/21 10:49	1

Eurofins TestAmerica, Canton

QC Sample Results

Client: CJF Associates, LLC
 Project/Site: Council Bluffs, 1216-01

Job ID: 240-144114-1

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

Lab Sample ID: LB 310-306848/1-B
Matrix: Solid
Analysis Batch: 307331

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 307105

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		4.0	1.1	ug/L		02/11/21 10:44	02/16/21 10:49	1
PCB-1268	ND		4.0	1.1	ug/L		02/11/21 10:44	02/16/21 10:49	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		02/11/21 10:44	02/16/21 10:49	1
Surrogate	LB %Recovery	LB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	115		10 - 119				02/11/21 10:44	02/16/21 10:49	1
Tetrachloro-m-xylene	90		14 - 110				02/11/21 10:44	02/16/21 10:49	1

Lab Sample ID: LCS 310-306848/2-B
Matrix: Solid
Analysis Batch: 307331

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 307105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	6.25	3.88	J	ug/L		62	21 - 119
PCB-1260	6.25	3.64	J	ug/L		58	18 - 122
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl (Surr)	73		10 - 119				
Tetrachloro-m-xylene	66		14 - 110				

Lab Sample ID: 240-144114-1 MS
Matrix: Solid
Analysis Batch: 307331

Client Sample ID: ZCSF-020421-001
Prep Type: TCLP
Prep Batch: 307105

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
PCB-1016	ND	F1	6.25	81.0	E F1	ug/L		1297	21 - 119
PCB-1260	ND		6.25	7.05		ug/L		113	18 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
DCB Decachlorobiphenyl (Surr)	96		10 - 119						
Tetrachloro-m-xylene	108		14 - 110						

Lab Sample ID: 240-144114-1 MSD
Matrix: Solid
Analysis Batch: 307331

Client Sample ID: ZCSF-020421-001
Prep Type: TCLP
Prep Batch: 307105

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016	ND	F1	6.25	82.2	E F1	ug/L		1315	21 - 119	1	35
PCB-1260	ND		6.25	5.87		ug/L		94	18 - 122	18	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
DCB Decachlorobiphenyl (Surr)	65		10 - 119								
Tetrachloro-m-xylene	59		14 - 110								

QC Sample Results

Client: CJF Associates, LLC
 Project/Site: Council Bluffs, 1216-01

Job ID: 240-144114-1

Method: 6010C - Metals (ICP)

Lab Sample ID: LB 310-306847/1-B
Matrix: Solid
Analysis Batch: 307092

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 306864

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.10	0.050	mg/L		02/09/21 08:27	02/10/21 13:18	1
Selenium	ND		0.10	0.063	mg/L		02/09/21 08:27	02/10/21 13:18	1

Lab Sample ID: LCS 310-306847/2-B
Matrix: Solid
Analysis Batch: 307092

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 306864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.00	4.35		mg/L		109	80 - 120
Selenium	8.00	9.02		mg/L		113	80 - 120

Lab Sample ID: 240-144114-1 MS
Matrix: Solid
Analysis Batch: 307092

Client Sample ID: ZCSF-020421-001
Prep Type: TCLP
Prep Batch: 306864

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		4.00	3.94		mg/L		99	75 - 125
Barium	0.76	J	2.00	2.71		mg/L		97	75 - 125
Cadmium	0.20		2.00	2.05		mg/L		93	75 - 125
Chromium	ND		2.00	1.85		mg/L		93	75 - 125
Lead	0.25	J	4.00	3.88		mg/L		91	75 - 125
Selenium	ND		8.00	8.42		mg/L		105	75 - 125
Silver	ND		2.00	1.97		mg/L		99	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 310-306847/1-C
Matrix: Solid
Analysis Batch: 307010

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 306909

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0015	mg/L		02/09/21 13:49	02/10/21 11:51	1

Lab Sample ID: LCS 310-306847/2-C
Matrix: Solid
Analysis Batch: 307010

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 306909

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0167	0.0171		mg/L		102	80 - 120

Lab Sample ID: 240-144114-1 MS
Matrix: Solid
Analysis Batch: 307010

Client Sample ID: ZCSF-020421-001
Prep Type: TCLP
Prep Batch: 306909

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.0167	0.0173		mg/L		104	80 - 120

QC Association Summary

Client: CJF Associates, LLC
 Project/Site: Council Bluffs, 1216-01

Job ID: 240-144114-1

GC Semi VOA

Leach Batch: 306848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144114-1	ZCSF-020421-001	TCLP	Solid	1311	
LB 310-306848/1-B	Method Blank	TCLP	Solid	1311	
LCS 310-306848/2-B	Lab Control Sample	TCLP	Solid	1311	
240-144114-1 MS	ZCSF-020421-001	TCLP	Solid	1311	
240-144114-1 MSD	ZCSF-020421-001	TCLP	Solid	1311	

Prep Batch: 306902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144114-1	ZCSF-020421-001	Total/NA	Solid	3550B	
MB 310-306902/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-306902/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 310-306902/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	

Analysis Batch: 306980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144114-1	ZCSF-020421-001	Total/NA	Solid	8082A	306902
MB 310-306902/1-A	Method Blank	Total/NA	Solid	8082A	306902
LCS 310-306902/2-A	Lab Control Sample	Total/NA	Solid	8082A	306902
LCSD 310-306902/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	306902

Prep Batch: 307105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144114-1	ZCSF-020421-001	TCLP	Solid	3510C	306848
LB 310-306848/1-B	Method Blank	TCLP	Solid	3510C	306848
LCS 310-306848/2-B	Lab Control Sample	TCLP	Solid	3510C	306848
240-144114-1 MS	ZCSF-020421-001	TCLP	Solid	3510C	306848
240-144114-1 MSD	ZCSF-020421-001	TCLP	Solid	3510C	306848

Analysis Batch: 307331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144114-1	ZCSF-020421-001	TCLP	Solid	8082A	307105
LB 310-306848/1-B	Method Blank	TCLP	Solid	8082A	307105
LCS 310-306848/2-B	Lab Control Sample	TCLP	Solid	8082A	307105
240-144114-1 MS	ZCSF-020421-001	TCLP	Solid	8082A	307105
240-144114-1 MSD	ZCSF-020421-001	TCLP	Solid	8082A	307105

Analysis Batch: 307524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144114-1	ZCSF-020421-001	Total/NA	Solid	PCB	

Analysis Batch: 307589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144114-1	ZCSF-020421-001	Total/NA	Solid	8082A	306902

Metals

Leach Batch: 306847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144114-1	ZCSF-020421-001	TCLP	Solid	1311	
LB 310-306847/1-B	Method Blank	TCLP	Solid	1311	
LB 310-306847/1-C	Method Blank	TCLP	Solid	1311	

Eurofins TestAmerica, Canton

QC Association Summary

Client: CJF Associates, LLC
 Project/Site: Council Bluffs, 1216-01

Job ID: 240-144114-1

Metals (Continued)

Leach Batch: 306847 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-306847/2-B	Lab Control Sample	TCLP	Solid	1311	
LCS 310-306847/2-C	Lab Control Sample	TCLP	Solid	1311	
240-144114-1 MS	ZCSF-020421-001	TCLP	Solid	1311	

Prep Batch: 306864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144114-1	ZCSF-020421-001	TCLP	Solid	3010A	306847
LB 310-306847/1-B	Method Blank	TCLP	Solid	3010A	306847
LCS 310-306847/2-B	Lab Control Sample	TCLP	Solid	3010A	306847
240-144114-1 MS	ZCSF-020421-001	TCLP	Solid	3010A	306847

Prep Batch: 306909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144114-1	ZCSF-020421-001	TCLP	Solid	7470A	306847
LB 310-306847/1-C	Method Blank	TCLP	Solid	7470A	306847
LCS 310-306847/2-C	Lab Control Sample	TCLP	Solid	7470A	306847
240-144114-1 MS	ZCSF-020421-001	TCLP	Solid	7470A	306847

Analysis Batch: 307010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144114-1	ZCSF-020421-001	TCLP	Solid	7470A	306909
LB 310-306847/1-C	Method Blank	TCLP	Solid	7470A	306909
LCS 310-306847/2-C	Lab Control Sample	TCLP	Solid	7470A	306909
240-144114-1 MS	ZCSF-020421-001	TCLP	Solid	7470A	306909

Analysis Batch: 307092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144114-1	ZCSF-020421-001	TCLP	Solid	6010C	306864
LB 310-306847/1-B	Method Blank	TCLP	Solid	6010C	306864
LCS 310-306847/2-B	Lab Control Sample	TCLP	Solid	6010C	306864
240-144114-1 MS	ZCSF-020421-001	TCLP	Solid	6010C	306864

General Chemistry

Analysis Batch: 306750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144114-1	ZCSF-020421-001	Total/NA	Solid	Moisture	
240-144114-2	ZCSF-020421-001 DUP	Total/NA	Solid	Moisture	

Analysis Batch: 306814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144114-1	ZCSF-020421-001	Total/NA	Solid	D92	

Lab Chronicle

Client: CJF Associates, LLC
 Project/Site: Council Bluffs, 1216-01

Job ID: 240-144114-1

Client Sample ID: ZCSF-020421-001

Lab Sample ID: 240-144114-1

Date Collected: 02/04/21 14:00

Matrix: Solid

Date Received: 02/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			306848	02/08/21 12:00	ERT	TAL CF
TCLP	Prep	3510C			307105	02/11/21 10:44	JCM	TAL CF
TCLP	Analysis	8082A		1	307331	02/16/21 11:37	BBW	TAL CF
Total/NA	Analysis	PCB		1	307524	02/18/21 08:13	DLK	TAL CF
TCLP	Leach	1311			306847	02/08/21 12:00	ERT	TAL CF
TCLP	Prep	3010A			306864	02/09/21 08:27	JNR	TAL CF
TCLP	Analysis	6010C		3	307092	02/10/21 13:28	CTB	TAL CF
TCLP	Leach	1311			306847	02/08/21 12:00	ERT	TAL CF
TCLP	Prep	7470A			306909	02/09/21 13:49	HED	TAL CF
TCLP	Analysis	7470A		1	307010	02/10/21 11:59	HED	TAL CF
Total/NA	Analysis	D92		1	306814	02/08/21 12:31	BER	TAL CF
Total/NA	Analysis	Moisture		1	306750	02/08/21 08:35	SAS	TAL CF

Client Sample ID: ZCSF-020421-001

Lab Sample ID: 240-144114-1

Date Collected: 02/04/21 14:00

Matrix: Solid

Date Received: 02/05/21 10:00

Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306902	02/09/21 12:22	EAM	TAL CF
Total/NA	Analysis	8082A		1	306980	02/10/21 13:18	BBW	TAL CF
Total/NA	Prep	3550B			306902	02/09/21 12:22	EAM	TAL CF
Total/NA	Analysis	8082A		50	307589	02/18/21 15:30	BBW	TAL CF

Client Sample ID: ZCSF-020421-001 DUP

Lab Sample ID: 240-144114-2

Date Collected: 02/04/21 14:00

Matrix: Solid

Date Received: 02/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	306750	02/08/21 08:35	SAS	TAL CF

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216-01

Job ID: 240-144114-1

Laboratory: Eurofins TestAmerica, Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Solid	PCB-1268
8082A	3510C	Solid	Polychlorinated biphenyls, Total
8082A	3550B	Solid	PCB-1268
D92		Solid	Flashpoint
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
PCB		Solid	Total PCBs

Eurofins TestAmerica Canton Sample Receipt Form/Narrative

Login # : 240-144114

Canton Facility

Client CJF Site Name _____

Cooler unpacked by: _____

Cooler Received on 2-5-21 Opened on 2-5-21

FedEx: 1st Grd. Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time

Storage Location

TestAmerica Cooler # TD Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None


1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. 0.3 °C Corrected Cooler Temp. 0.4 °C
IR GUN #IR-12 (CF +0.2°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
-Were tamper/custody seals intact and uncompromised? Yes No NA

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N) # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No

If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC907861
14. Were VOAs on the COC? Yes No NA
15. Were air bubbles >6 mm in any VOA vials? Yes No NA  ← Larger than this.
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No NA
17. Was a LL Hg or Me Hg trip blank present? _____ Yes No NA

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____



Environment Testing
TestAmerica



240-144114 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: TA canton			
City/State:	CITY Norton Canton	STATE OH	Project:
Receipt Information			
Date/Time Received:	DATE 2-6-21	TIME 1010	Received By: ER
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx SAT <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____	
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: 0		Correction Factor (°C): 0	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u> plastic 500ml	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):	3.8		
Corrected Temp (°C):	3.8		
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Document: CF-LG-WI-002
Revision: 25
Date: 06/17/2019

Eurofins TestAmerica, Cedar Falls

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C

Login Sample Receipt Checklist

Client: CJF Associates, LLC

Job Number: 240-144114-1

Login Number: 144114

List Number: 2

Creator: Homolar, Dana J

List Source: Eurofins TestAmerica, Cedar Falls

List Creation: 02/08/21 07:40 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
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	