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April 1, 2022

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 2022 – March 2022

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: 11 mg/kg;
- Ten-Sample Rolling PCBs Average: 14.61 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.

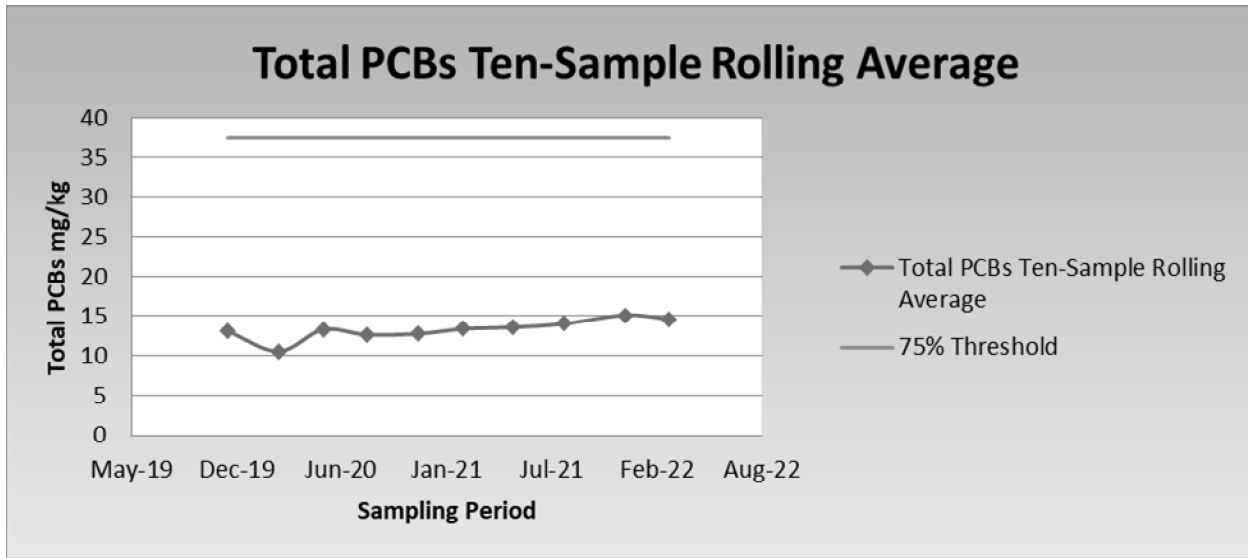
Details

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 13, 2022 through February 17, 2022 in accordance with IAC 567, Chapter 118. Samples were analyzed for total Polychlorinated Biphenyls (PCBs), Toxic Characteristic Leaching Procedure (TCLP) PCBs, TCLP Resource Conservation and Recovery Act (RCRA) metals, and Ignitability.

Total PCBs results for the sampling period totaled 11 mg/kg. TCLP PCBs were not detected above the laboratory reporting limit. Barium, cadmium, and lead were the only RCRA metals identified above the laboratory reporting limits but below regulatory TCLP concentrations. The reported concentration for lead was identified at 0.12 mg/L which does not exceed the regulatory TCLP concentration of 5.0 mg/L. The present ten-sample rolling average for PCBs is 14.61 mg/kg. Rolling averages of the ten-sampling period results for total PCBs are presented below:



April 1, 2022



First quarter analytical results are summarized as follows:

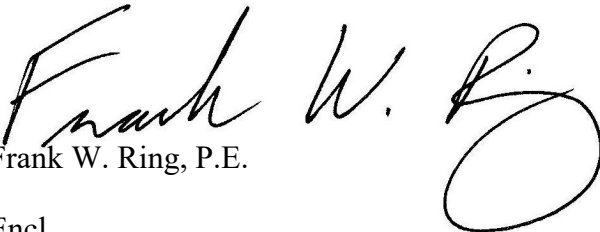
Sample ID	Analyte										Ignitability ²
	Total PCBs ¹	TCLP PCBs	TCLP Arsenic	TCLP Barium	TCLP Cad	TCLP Chrom	TCLP Lead	TCLP Sel	TCLP Silver	TCLP Mercury	
ZCSF-030422-001	11	ND	ND	0.67	0.16	ND	0.12	ND	ND	ND	>200

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 Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-226460-1
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:
3/22/2022 5:31:51 AM*

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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Case Narrative

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

Job ID: 310-226460-1

Job ID: 310-226460-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative 310-226460-1

Comments

No additional comments.

Receipt

The samples were received on 3/5/2022 9:05 AM. Unless otherwise noted below, the samples arrived in good condition.

GC Semi VOA

Method 8082A: The continuing calibration verification (CCV) associated with batch 310-346941 recovered above the upper control limit for PCB-1242 PCB-1268. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8082A: The continuing calibration verification (CCV) associated with batch 310-346941 recovered above the upper control limit for PCB-1254. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-346941/27).

Method 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 310-346399 and 310-346847 and analytical batch 310-346941 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-030422-001 (310-226460-1). Elevated reporting limits (RLs) are provided.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: ZCSF-030422-001 (310-226460-1). Elevated reporting limits (RLs) are provided.

Method 8082A: The continuing calibration verification (CCV) associated with batch 310-346986 recovered above the upper control limit for PCB-1268. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-346986/5).

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 3550B: The following sample was diluted due to the nature of the sample matrix: ZCSF-030422-001 (310-226460-1). 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.

Sample Summary

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

Job ID: 310-226460-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-226460-1	ZCSF-030422-001	Solid	03/04/22 12:00	03/05/22 09:05

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Detection Summary

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

Job ID: 310-226460-1

Client Sample ID: ZCSF-030422-001

Lab Sample ID: 310-226460-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	11		1.4	0.15	mg/Kg	20	✱	8082A	Total/NA
Total PCBs	11		1.4	0.19	mg/Kg	1		PCB	Total/NA
Barium	0.67	J	1.5	0.33	mg/L	3		6010C	TCLP
Cadmium	0.16		0.060	0.016	mg/L	3		6010C	TCLP
Lead	0.12	J	0.30	0.096	mg/L	3		6010C	TCLP
Flashpoint	>200		65.0	65.0	Degrees F	1		D92	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

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

Job ID: 310-226460-1

Client Sample ID: ZCSF-030422-001

Lab Sample ID: 310-226460-1

Date Collected: 03/04/22 12:00

Matrix: Solid

Date Received: 03/05/22 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<1.3	F1	4.0	1.3	ug/L		03/17/22 07:30	03/17/22 19:34	1
PCB-1221	<1.3		4.0	1.3	ug/L		03/17/22 07:30	03/17/22 19:34	1
PCB-1232	<1.3		4.0	1.3	ug/L		03/17/22 07:30	03/17/22 19:34	1
PCB-1242	<1.3		4.0	1.3	ug/L		03/17/22 07:30	03/17/22 19:34	1
PCB-1248	<1.1		4.0	1.1	ug/L		03/17/22 07:30	03/17/22 19:34	1
PCB-1254	<1.1		4.0	1.1	ug/L		03/17/22 07:30	03/17/22 19:34	1
PCB-1260	<1.1	F2	4.0	1.1	ug/L		03/17/22 07:30	03/17/22 19:34	1
PCB-1268	<1.1		4.0	1.1	ug/L		03/17/22 07:30	03/17/22 19:34	1
Polychlorinated biphenyls, Total	<1.3		4.0	1.3	ug/L		03/17/22 07:30	03/17/22 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	60		10 - 119				03/17/22 07:30	03/17/22 19:34	1
Tetrachloro-m-xylene	80		14 - 110				03/17/22 07:30	03/17/22 19:34	1

Method: PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PCBs	11		1.4	0.19	mg/Kg			03/21/22 16:21	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.15		0.30	0.15	mg/L		03/14/22 09:00	03/15/22 11:15	3
Barium	0.67	J	1.5	0.33	mg/L		03/14/22 09:00	03/15/22 11:15	3
Cadmium	0.16		0.060	0.016	mg/L		03/14/22 09:00	03/15/22 11:15	3
Chromium	<0.026		0.060	0.026	mg/L		03/14/22 09:00	03/15/22 11:15	3
Lead	0.12	J	0.30	0.096	mg/L		03/14/22 09:00	03/15/22 11:15	3
Selenium	<0.19		0.30	0.19	mg/L		03/14/22 09:00	03/15/22 11:15	3
Silver	<0.026		0.060	0.026	mg/L		03/14/22 09:00	03/15/22 11:15	3

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0012		0.0020	0.0012	mg/L		03/14/22 15:19	03/15/22 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>200		65.0	65.0	Degrees F			03/17/22 14:00	1
Percent Moisture	12.9		0.1	0.1	%			03/07/22 12:15	1
Percent Solids	87.1		0.1	0.1	%			03/07/22 12:15	1

Client Sample Results

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

Job ID: 310-226460-1

Client Sample ID: ZCSF-030422-001

Lab Sample ID: 310-226460-1

Date Collected: 03/04/22 12:00

Matrix: Solid

Date Received: 03/05/22 09:05

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.70	0.018	mg/Kg	✱	03/11/22 09:42	03/17/22 21:06	10
PCB-1221	<0.19		0.70	0.19	mg/Kg	✱	03/11/22 09:42	03/17/22 21:06	10
PCB-1232	<0.070		0.70	0.070	mg/Kg	✱	03/11/22 09:42	03/17/22 21:06	10
PCB-1242	11		1.4	0.15	mg/Kg	✱	03/11/22 09:42	03/18/22 12:37	20
PCB-1248	<0.048		0.70	0.048	mg/Kg	✱	03/11/22 09:42	03/17/22 21:06	10
PCB-1254	<0.045		0.70	0.045	mg/Kg	✱	03/11/22 09:42	03/17/22 21:06	10
PCB-1260	<0.024		0.70	0.024	mg/Kg	✱	03/11/22 09:42	03/17/22 21:06	10
PCB-1268	<0.0099		0.70	0.0099	mg/Kg	✱	03/11/22 09:42	03/17/22 21:06	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	114		10 - 136				03/11/22 09:42	03/17/22 21:06	10
Tetrachloro-m-xylene	73		21 - 110				03/11/22 09:42	03/17/22 21:06	10

Definitions/Glossary

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

Job ID: 310-226460-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Metals

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

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

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

Surrogate Summary

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

Job ID: 310-226460-1

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)
310-226460-1	ZCSF-030422-001	114	73
LCS 310-346306/2-A	Lab Control Sample	117	90
LCSD 310-346306/3-A	Lab Control Sample Dup	99	82
MB 310-346306/1-A	Method Blank	109	78

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

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 (10-119)	TCX1 (14-110)
LCS 310-346847/2-A	Lab Control Sample	81	76

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	DCB1 (10-119)	TCX1 (14-110)
310-226460-1	ZCSF-030422-001	60	80
310-226460-1 MS	ZCSF-030422-001	71	91
310-226460-1 MSD	ZCSF-030422-001	70	85
LB 310-346399/1-D	Method Blank	100	80

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: 310-226460-1

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

Lab Sample ID: MB 310-346306/1-A
Matrix: Solid
Analysis Batch: 346793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 346306

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.00064		0.025	0.00064	mg/Kg		03/11/22 09:42	03/16/22 16:42	1
PCB-1221	<0.0066		0.025	0.0066	mg/Kg		03/11/22 09:42	03/16/22 16:42	1
PCB-1232	<0.0025		0.025	0.0025	mg/Kg		03/11/22 09:42	03/16/22 16:42	1
PCB-1242	<0.0027		0.025	0.0027	mg/Kg		03/11/22 09:42	03/16/22 16:42	1
PCB-1248	<0.0017		0.025	0.0017	mg/Kg		03/11/22 09:42	03/16/22 16:42	1
PCB-1254	<0.0016		0.025	0.0016	mg/Kg		03/11/22 09:42	03/16/22 16:42	1
PCB-1260	<0.00084		0.025	0.00084	mg/Kg		03/11/22 09:42	03/16/22 16:42	1
PCB-1268	<0.00035		0.025	0.00035	mg/Kg		03/11/22 09:42	03/16/22 16:42	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	109		10 - 136	03/11/22 09:42	03/16/22 16:42	1
Tetrachloro-m-xylene	78		21 - 110	03/11/22 09:42	03/16/22 16:42	1

Lab Sample ID: LCS 310-346306/2-A
Matrix: Solid
Analysis Batch: 346793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 346306

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
PCB-1016	0.197	0.167		mg/Kg		85	33 - 113
PCB-1260	0.197	0.204		mg/Kg		104	30 - 111

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	117		10 - 136
Tetrachloro-m-xylene	90		21 - 110

Lab Sample ID: LCSD 310-346306/3-A
Matrix: Solid
Analysis Batch: 346793

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 346306

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier						
PCB-1016	0.199	0.168		mg/Kg		85	33 - 113	1	34
PCB-1260	0.199	0.205		mg/Kg		103	30 - 111	0	29

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	99		10 - 136
Tetrachloro-m-xylene	82		21 - 110

Lab Sample ID: LCS 310-346847/2-A
Matrix: Solid
Analysis Batch: 346941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 346847

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
PCB-1016	6.25	5.35		ug/L		86	21 - 119
PCB-1260	6.25	5.07		ug/L		81	18 - 122

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	81		10 - 119

Eurofins Cedar Falls

QC Sample Results

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

Job ID: 310-226460-1

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

Lab Sample ID: LCS 310-346847/2-A
Matrix: Solid
Analysis Batch: 346941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 346847

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	76		14 - 110

Lab Sample ID: LB 310-346399/1-D
Matrix: Solid
Analysis Batch: 346941

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 346847

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<1.3		4.0	1.3	ug/L		03/17/22 07:30	03/17/22 18:32	1
PCB-1221	<1.3		4.0	1.3	ug/L		03/17/22 07:30	03/17/22 18:32	1
PCB-1232	<1.3		4.0	1.3	ug/L		03/17/22 07:30	03/17/22 18:32	1
PCB-1242	<1.3		4.0	1.3	ug/L		03/17/22 07:30	03/17/22 18:32	1
PCB-1248	<1.1		4.0	1.1	ug/L		03/17/22 07:30	03/17/22 18:32	1
PCB-1254	<1.1		4.0	1.1	ug/L		03/17/22 07:30	03/17/22 18:32	1
PCB-1260	<1.1		4.0	1.1	ug/L		03/17/22 07:30	03/17/22 18:32	1
PCB-1268	<1.1		4.0	1.1	ug/L		03/17/22 07:30	03/17/22 18:32	1
Polychlorinated biphenyls, Total	<1.3		4.0	1.3	ug/L		03/17/22 07:30	03/17/22 18:32	1

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	100		10 - 119	03/17/22 07:30	03/17/22 18:32	1
Tetrachloro-m-xylene	80		14 - 110	03/17/22 07:30	03/17/22 18:32	1

Lab Sample ID: 310-226460-1 MS
Matrix: Solid
Analysis Batch: 346941

Client Sample ID: ZCSF-030422-001
Prep Type: TCLP
Prep Batch: 346847

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
PCB-1016	<1.3	F1	6.25	20.5	E F1	ug/L		327	21 - 119
PCB-1260	<1.1	F2	6.25	5.80		ug/L		93	18 - 122

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	71		10 - 119
Tetrachloro-m-xylene	91		14 - 110

Lab Sample ID: 310-226460-1 MSD
Matrix: Solid
Analysis Batch: 346941

Client Sample ID: ZCSF-030422-001
Prep Type: TCLP
Prep Batch: 346847

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	Limits	RPD	Limit
				Result	Qualifier						
PCB-1016	<1.3	F1	6.25	15.9	E F1	ug/L		254	21 - 119	25	35
PCB-1260	<1.1	F2	6.25	4.17	F2	ug/L		67	18 - 122	33	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	70		10 - 119
Tetrachloro-m-xylene	85		14 - 110

QC Sample Results

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

Job ID: 310-226460-1

Method: 6010C - Metals (ICP)

Lab Sample ID: LB 310-346398/1-B
Matrix: Solid
Analysis Batch: 346672

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 346413

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.050		0.10	0.050	mg/L		03/14/22 09:00	03/15/22 10:10	1
Barium	<0.11		0.50	0.11	mg/L		03/14/22 09:00	03/15/22 10:10	1
Cadmium	<0.0053		0.020	0.0053	mg/L		03/14/22 09:00	03/15/22 10:10	1
Chromium	<0.0087		0.020	0.0087	mg/L		03/14/22 09:00	03/15/22 10:10	1
Lead	<0.032		0.10	0.032	mg/L		03/14/22 09:00	03/15/22 10:10	1
Selenium	<0.063		0.10	0.063	mg/L		03/14/22 09:00	03/15/22 10:10	1
Silver	0.00980	J	0.020	0.0087	mg/L		03/14/22 09:00	03/15/22 10:10	1

Lab Sample ID: LCS 310-346398/2-B
Matrix: Solid
Analysis Batch: 346672

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 346413

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Arsenic	4.00	4.46		mg/L		111	80 - 120
Barium	2.00	2.05		mg/L		103	80 - 120
Cadmium	2.00	2.05		mg/L		103	80 - 120
Chromium	2.00	2.01		mg/L		101	80 - 120
Lead	4.00	4.23		mg/L		106	80 - 120
Selenium	8.00	8.92		mg/L		111	80 - 120
Silver	2.00	2.28		mg/L		114	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 310-346398/1-C
Matrix: Solid
Analysis Batch: 346699

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 346546

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.0012		0.0020	0.0012	mg/L		03/14/22 15:19	03/15/22 14:48	1

Lab Sample ID: LCS 310-346398/2-C
Matrix: Solid
Analysis Batch: 346699

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 346546

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Mercury	0.0167	0.0162		mg/L		97	80 - 120

Method: D92 - Flashpoint

Lab Sample ID: 310-226460-1 DU
Matrix: Solid
Analysis Batch: 347134

Client Sample ID: ZCSF-030422-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	RPD Limit
			Result	Qualifier				
Flashpoint	>200		>200.0		Degrees F		NC	16

QC Sample Results

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

Job ID: 310-226460-1

Method: Moisture - Percent Moisture

Lab Sample ID: 310-226460-1 DU
Matrix: Solid
Analysis Batch: 345762

Client Sample ID: ZCSF-030422-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	12.9		8.1	F3	%		45	39
Percent Solids	87.1		91.9		%		5	10

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QC Association Summary

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

Job ID: 310-226460-1

GC Semi VOA

Prep Batch: 346306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-226460-1	ZCSF-030422-001	Total/NA	Solid	3550B	
MB 310-346306/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-346306/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 310-346306/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	

Leach Batch: 346399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-226460-1	ZCSF-030422-001	TCLP	Solid	1311	
LB 310-346399/1-D	Method Blank	TCLP	Solid	1311	
310-226460-1 MS	ZCSF-030422-001	TCLP	Solid	1311	
310-226460-1 MSD	ZCSF-030422-001	TCLP	Solid	1311	

Analysis Batch: 346793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-346306/1-A	Method Blank	Total/NA	Solid	8082A	346306
LCS 310-346306/2-A	Lab Control Sample	Total/NA	Solid	8082A	346306
LCSD 310-346306/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	346306

Prep Batch: 346847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-226460-1	ZCSF-030422-001	TCLP	Solid	3510C	346399
LB 310-346399/1-D	Method Blank	TCLP	Solid	3510C	346399
LCS 310-346847/2-A	Lab Control Sample	Total/NA	Solid	3510C	
310-226460-1 MS	ZCSF-030422-001	TCLP	Solid	3510C	346399
310-226460-1 MSD	ZCSF-030422-001	TCLP	Solid	3510C	346399

Analysis Batch: 346941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-226460-1	ZCSF-030422-001	TCLP	Solid	8082A	346847
310-226460-1	ZCSF-030422-001	Total/NA	Solid	8082A	346306
LB 310-346399/1-D	Method Blank	TCLP	Solid	8082A	346847
LCS 310-346847/2-A	Lab Control Sample	Total/NA	Solid	8082A	346847
310-226460-1 MS	ZCSF-030422-001	TCLP	Solid	8082A	346847
310-226460-1 MSD	ZCSF-030422-001	TCLP	Solid	8082A	346847

Analysis Batch: 346986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-226460-1	ZCSF-030422-001	Total/NA	Solid	8082A	346306

Analysis Batch: 347254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-226460-1	ZCSF-030422-001	Total/NA	Solid	PCB	

Metals

Leach Batch: 346398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-226460-1	ZCSF-030422-001	TCLP	Solid	1311	
LB 310-346398/1-B	Method Blank	TCLP	Solid	1311	
LB 310-346398/1-C	Method Blank	TCLP	Solid	1311	
LCS 310-346398/2-B	Lab Control Sample	TCLP	Solid	1311	

Eurofins Cedar Falls

QC Association Summary

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

Job ID: 310-226460-1

Metals (Continued)

Leach Batch: 346398 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-346398/2-C	Lab Control Sample	TCLP	Solid	1311	

Prep Batch: 346413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-226460-1	ZCSF-030422-001	TCLP	Solid	3010A	346398
LB 310-346398/1-B	Method Blank	TCLP	Solid	3010A	346398
LCS 310-346398/2-B	Lab Control Sample	TCLP	Solid	3010A	346398

Prep Batch: 346546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-226460-1	ZCSF-030422-001	TCLP	Solid	7470A	346398
LB 310-346398/1-C	Method Blank	TCLP	Solid	7470A	346398
LCS 310-346398/2-C	Lab Control Sample	TCLP	Solid	7470A	346398

Analysis Batch: 346672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-226460-1	ZCSF-030422-001	TCLP	Solid	6010C	346413
LB 310-346398/1-B	Method Blank	TCLP	Solid	6010C	346413
LCS 310-346398/2-B	Lab Control Sample	TCLP	Solid	6010C	346413

Analysis Batch: 346699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-226460-1	ZCSF-030422-001	TCLP	Solid	7470A	346546
LB 310-346398/1-C	Method Blank	TCLP	Solid	7470A	346546
LCS 310-346398/2-C	Lab Control Sample	TCLP	Solid	7470A	346546

General Chemistry

Analysis Batch: 345762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-226460-1	ZCSF-030422-001	Total/NA	Solid	Moisture	
310-226460-1 DU	ZCSF-030422-001	Total/NA	Solid	Moisture	

Analysis Batch: 347134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-226460-1	ZCSF-030422-001	Total/NA	Solid	D92	
310-226460-1 DU	ZCSF-030422-001	Total/NA	Solid	D92	

Lab Chronicle

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

Job ID: 310-226460-1

Client Sample ID: ZCSF-030422-001

Lab Sample ID: 310-226460-1

Date Collected: 03/04/22 12:00

Matrix: Solid

Date Received: 03/05/22 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			346399	03/11/22 13:00	JTA	TAL CF
TCLP	Prep	3510C			346847	03/17/22 07:30	JCM	TAL CF
TCLP	Analysis	8082A		1	346941	03/17/22 19:34	BBW	TAL CF
Total/NA	Analysis	PCB		1	347254	03/21/22 16:21	DLK	TAL CF
TCLP	Leach	1311			346398	03/11/22 13:00	JTA	TAL CF
TCLP	Prep	3010A			346413	03/14/22 09:00	ACM2	TAL CF
TCLP	Analysis	6010C		3	346672	03/15/22 11:15	CTB	TAL CF
TCLP	Leach	1311			346398	03/11/22 13:00	JTA	TAL CF
TCLP	Prep	7470A			346546	03/14/22 15:19	EAM	TAL CF
TCLP	Analysis	7470A		1	346699	03/15/22 15:12	EAM	TAL CF
Total/NA	Analysis	D92		1	347134	03/17/22 14:00	ARG	TAL CF
Total/NA	Analysis	Moisture		1	345762	03/07/22 12:15	JAJ	TAL CF

Client Sample ID: ZCSF-030422-001

Lab Sample ID: 310-226460-1

Date Collected: 03/04/22 12:00

Matrix: Solid

Date Received: 03/05/22 09:05

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			346306	03/11/22 09:42	KMH	TAL CF
Total/NA	Analysis	8082A		10	346941	03/17/22 21:06	BBW	TAL CF
Total/NA	Prep	3550B			346306	03/11/22 09:42	KMH	TAL CF
Total/NA	Analysis	8082A		20	346986	03/18/22 12:37	BBW	TAL CF

Laboratory References:

TAL CF = Eurofins 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: 310-226460-1

Laboratory: Eurofins Cedar Falls

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

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

- 1
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* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

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

Job ID: 310-226460-1

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 Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing
America



310-226460 Chain of Custody

Cooler/Sample Receipt and Temperature LOG Form

Client Information			
Client: <u>CJF Associates</u>			
City/State:	<u>SA</u> <u>Clair Shores</u> <u>MI</u>	Project:	<u>Alter ZC</u>
Receipt Information			
Date/Time Received:	DATE <u>3/5/22</u>	TIME <u>9:05</u>	Received By: <u>LR</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <u>SA</u> <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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" 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:	<u>N</u>	Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	<u>✓</u>	Corrected Temp (°C): _____	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u> <u>402 Soil</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):	<u>12.2</u>		
Corrected Temp (°C):	<u>12.2</u>		
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			



Chain of Custody Record



Cedar Falls, IA 50613
phone 319.277.2401 fax 319.277.2425

Regulatory Program: DW NPDES RCRA Other:

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact		Project Manager:	
CJF Associates	Email:		
22324 Harper Ave	Tel/Fax:		
St Clair Shores, MI, 48080	Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		
(xxx) xxx-xxxx Phone	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)
(xxx) xxx-xxxx FAX	3/4/2022	12:00	C
Project Name: Alter ZC			
Site: Council Bluffs, Iowa			
P O # 1216-01			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Total PCBs	TCLP PCBs	TCLP RCRA Metals	Ignitability	Carrier	Date	COC No.
ZCSF-030422-001	3/4/2022	12:00	C		4			X	X	X	X			1 of 1 COCs
ZCSF-030422-001 DUP	3/4/22	12:00	C		4									Hold

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

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments: Sample is ASR from Iowa, needs Iowa certified lab.

Return to Client Disposal by Lab Archive for _____ Months

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:
Relinquished by: <i>[Signature]</i>	Company: CJF
Relinquished by: <i>[Signature]</i>	Company:
Relinquished by:	Company:

Received by: _____ Date/Time: 3-4-22 1:40 PM
 Received by: _____ Date/Time:
 Received in Laboratory by: *[Signature]* Date/Time: 3/5/22 905

Login Sample Receipt Checklist

Client: CJF Associates, LLC

Job Number: 310-226460-1

SDG Number:

Login Number: 226460

List Number: 1

Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
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.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	cont.....only 1 temp taken on 1 jar on Saturday
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	