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September 23, 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
3rd Quarter 2022 – September 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: 7.9 mg/kg;
- Ten-Sample Rolling PCBs Average: 14.74 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.

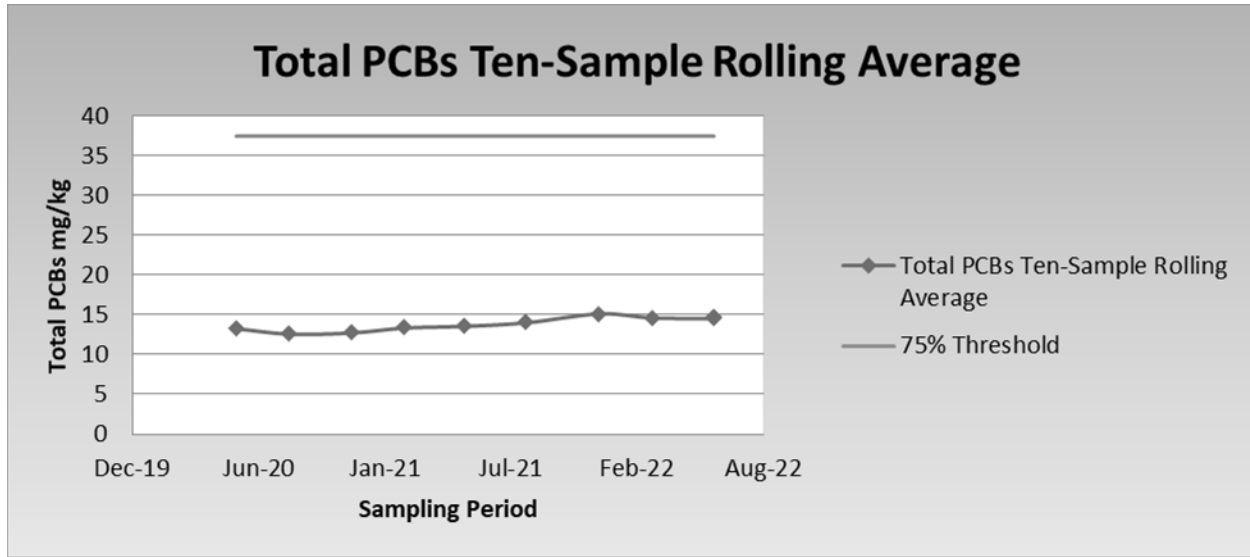
Details

In order to characterize the fluff, samples were collected and analyzed from the bulk seven-day composite sample. The composite sample was collected from August 2, 2022 through August 15, 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 7.9 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 0.19 mg/L which does not exceed the regulatory TCLP concentration of 5.0 mg/L. The present ten-sample rolling average for PCBs is 14.74 mg/kg. Rolling averages of the ten-sampling period results for total PCBs are presented below:



September 23, 2022



Third quarter analytical results are summarized as follows:

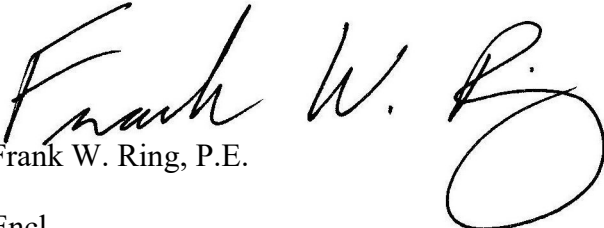
Sample ID	Analyte										
	Total PCBs ¹	TCLP PCBs	TCLP Arsenic	TCLP Barium	TCLP Cad	TCLP Chrom	TCLP Lead	TCLP Sel	TCLP Silver	TCLP Mercury	Ignitability ²
ZCSF-090222-001	7.9	ND	ND	0.74	0.14	ND	0.19	ND	ND	ND	>200

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
 Mickaela Saner, Iowa Waste Systems Inc.

ATTACHMENT A

LABORATORY ANALYTICAL RESULTS

ANALYTICAL REPORT

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Tel: (330)497-9396

Laboratory Job ID: 240-172559-1
Client Project/Site: Council Bluffs, 1216

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

Attn: Charles Ring



Authorized for release by:
9/21/2022 7:27:43 AM

Denise Heckler, Project Manager II
(330)966-9477
Denise.Heckler@et.eurofinsus.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

Job ID: 240-172559-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

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.
▫	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

Job ID: 240-172559-1

Job ID: 240-172559-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-172559-1

Comments

No additional comments.

Receipt

The samples were received on 9/3/2022 9:30 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 3.4° C.

GC Semi VOA

Method 8082A: The following sample was diluted due to the nature of the sample matrix: ZCSF-090222-001 (240-172559-1). Elevated reporting limits (RLs) are provided.

Method 8082A: Surrogate recovery for the following sample was outside control limits: ZCSF-090222-001 (240-172559-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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: The following sample was tumbled in plastic: ZCSF-090222-001 (240-172559-1)

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

Job ID: 240-172559-1

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

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

Sample Summary

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

Job ID: 240-172559-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-172559-1	ZCSF-090222-001	Solid	09/02/22 12:00	09/03/22 09:30
240-172559-2	ZCSF-090222-001 DUP	Solid	09/02/22 12:00	09/03/22 09:30

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Detection Summary

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

Job ID: 240-172559-1

Client Sample ID: ZCSF-090222-001

Lab Sample ID: 240-172559-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	7.9		1.8	0.19	mg/Kg	50	✳	8082A	Total/NA
Total PCBs	7.9		1.8	0.19	mg/Kg	1		PCB	Total/NA
Barium	0.74	J	1.0	0.22	mg/L	2		6010C	TCLP
Cadmium	0.14		0.040	0.016	mg/L	2		6010C	TCLP
Lead	0.19	J	0.20	0.10	mg/L	2		6010C	TCLP
Flashpoint	>200		65.0	65.0	Degrees F	1		D92	Total/NA

Client Sample ID: ZCSF-090222-001 DUP

Lab Sample ID: 240-172559-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Client Sample Results

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

Job ID: 240-172559-1

Client Sample ID: ZCSF-090222-001

Lab Sample ID: 240-172559-1

Date Collected: 09/02/22 12:00

Matrix: Solid

Date Received: 09/03/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		4.0	1.3	ug/L		09/09/22 11:55	09/19/22 11:48	1
PCB-1221	ND		4.0	1.3	ug/L		09/09/22 11:55	09/19/22 11:48	1
PCB-1232	ND		4.0	1.3	ug/L		09/09/22 11:55	09/19/22 11:48	1
PCB-1242	ND		4.0	1.3	ug/L		09/09/22 11:55	09/19/22 11:48	1
PCB-1248	ND		4.0	1.1	ug/L		09/09/22 11:55	09/19/22 11:48	1
PCB-1254	ND		4.0	1.1	ug/L		09/09/22 11:55	09/19/22 11:48	1
PCB-1260	ND		4.0	1.1	ug/L		09/09/22 11:55	09/19/22 11:48	1
PCB-1268	ND		4.0	1.1	ug/L		09/09/22 11:55	09/19/22 11:48	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		09/09/22 11:55	09/19/22 11:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	74		10 - 119				09/09/22 11:55	09/19/22 11:48	1
Tetrachloro-m-xylene	75		14 - 110				09/09/22 11:55	09/19/22 11:48	1

Method: PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PCBs	7.9		1.8	0.19	mg/Kg			09/19/22 16:06	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.40	0.20	mg/L		09/12/22 09:00	09/13/22 11:56	2
Barium	0.74	J	1.0	0.22	mg/L		09/12/22 09:00	09/13/22 11:56	2
Cadmium	0.14		0.040	0.016	mg/L		09/12/22 09:00	09/13/22 11:56	2
Chromium	ND		0.040	0.017	mg/L		09/12/22 09:00	09/13/22 11:56	2
Lead	0.19	J	0.20	0.10	mg/L		09/12/22 09:00	09/13/22 11:56	2
Selenium	ND		0.20	0.13	mg/L		09/12/22 09:00	09/13/22 11:56	2
Silver	ND		0.040	0.019	mg/L		09/12/22 09:00	09/13/22 11:56	2

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0012	mg/L		09/09/22 13:28	09/12/22 16:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>200		65.0	65.0	Degrees F			09/07/22 11:57	1
Percent Moisture	8.1		0.1	0.1	%			09/07/22 13:39	1
Percent Solids	91.9		0.1	0.1	%			09/07/22 13:39	1

Client Sample Results

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

Job ID: 240-172559-1

Client Sample ID: ZCSF-090222-001

Lab Sample ID: 240-172559-1

Date Collected: 09/02/22 12:00

Matrix: Solid

Date Received: 09/03/22 09:30

Percent Solids: 91.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.35	0.0092	mg/Kg	✳	09/08/22 17:49	09/19/22 12:13	10
PCB-1221	ND		0.35	0.095	mg/Kg	✳	09/08/22 17:49	09/19/22 12:13	10
PCB-1232	ND		0.35	0.035	mg/Kg	✳	09/08/22 17:49	09/19/22 12:13	10
PCB-1242	7.9		1.8	0.19	mg/Kg	✳	09/08/22 17:49	09/19/22 13:15	50
PCB-1248	ND		0.35	0.024	mg/Kg	✳	09/08/22 17:49	09/19/22 12:13	10
PCB-1254	ND		0.35	0.023	mg/Kg	✳	09/08/22 17:49	09/19/22 12:13	10
PCB-1260	ND		0.35	0.012	mg/Kg	✳	09/08/22 17:49	09/19/22 12:13	10
PCB-1268	ND		0.35	0.0050	mg/Kg	✳	09/08/22 17:49	09/19/22 12:13	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl (Surr)</i>	316	S1+	10 - 136				09/08/22 17:49	09/19/22 12:13	10
<i>DCB Decachlorobiphenyl (Surr)</i>	365	S1+	10 - 136				09/08/22 17:49	09/19/22 13:15	50
<i>Tetrachloro-m-xylene</i>	118	S1+	21 - 110				09/08/22 17:49	09/19/22 12:13	10
<i>Tetrachloro-m-xylene</i>	126	S1+	21 - 110				09/08/22 17:49	09/19/22 13:15	50

Client Sample Results

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

Job ID: 240-172559-1

Client Sample ID: ZCSF-090222-001 DUP

Lab Sample ID: 240-172559-2

Date Collected: 09/02/22 12:00

Matrix: Solid

Date Received: 09/03/22 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.4		0.1	0.1	%			09/07/22 13:39	1
Percent Solids	88.6		0.1	0.1	%			09/07/22 13:39	1

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Surrogate Summary

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

Job ID: 240-172559-1

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	TCX1
		(10-136)	(21-110)
240-172559-1	ZCSF-090222-001	316 S1+	118 S1+
240-172559-1	ZCSF-090222-001	365 S1+	126 S1+
LCS 310-365042/2-A	Lab Control Sample	84	86
LCS 310-365042/3-A	Lab Control Sample Dup	90	88
MB 310-365042/1-A	Method Blank	69	69

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	TCX1
		(10-119)	(14-110)
240-172559-1	ZCSF-090222-001	74	75

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

QC Sample Results

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

Job ID: 240-172559-1

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

Lab Sample ID: MB 310-365042/1-A
Matrix: Solid
Analysis Batch: 365864

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 365042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.025	0.00065	mg/Kg		09/08/22 17:49	09/19/22 11:11	1
PCB-1221	ND		0.025	0.0067	mg/Kg		09/08/22 17:49	09/19/22 11:11	1
PCB-1232	ND		0.025	0.0025	mg/Kg		09/08/22 17:49	09/19/22 11:11	1
PCB-1242	ND		0.025	0.0027	mg/Kg		09/08/22 17:49	09/19/22 11:11	1
PCB-1248	ND		0.025	0.0017	mg/Kg		09/08/22 17:49	09/19/22 11:11	1
PCB-1254	ND		0.025	0.0016	mg/Kg		09/08/22 17:49	09/19/22 11:11	1
PCB-1260	ND		0.025	0.00085	mg/Kg		09/08/22 17:49	09/19/22 11:11	1
PCB-1268	ND		0.025	0.00035	mg/Kg		09/08/22 17:49	09/19/22 11:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	69		10 - 136	09/08/22 17:49	09/19/22 11:11	1
Tetrachloro-m-xylene	69		21 - 110	09/08/22 17:49	09/19/22 11:11	1

Lab Sample ID: LCS 310-365042/2-A
Matrix: Solid
Analysis Batch: 365864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.195	0.161		mg/Kg		83	33 - 113
PCB-1260	0.195	0.155		mg/Kg		79	30 - 111

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	84		10 - 136
Tetrachloro-m-xylene	86		21 - 110

Lab Sample ID: LCSD 310-365042/3-A
Matrix: Solid
Analysis Batch: 365864

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 365042

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	0.195	0.158		mg/Kg		81	33 - 113	2	34
PCB-1260	0.195	0.152		mg/Kg		78	30 - 111	2	29

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	90		10 - 136
Tetrachloro-m-xylene	88		21 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: LB 310-365057/1-B
Matrix: Solid
Analysis Batch: 365378

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 365132

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	mg/L		09/12/22 09:00	09/12/22 17:52	1
Barium	ND		0.50	0.11	mg/L		09/12/22 09:00	09/12/22 17:52	1
Cadmium	ND		0.020	0.0078	mg/L		09/12/22 09:00	09/12/22 17:52	1
Chromium	ND		0.020	0.0087	mg/L		09/12/22 09:00	09/12/22 17:52	1

Eurofins Canton

QC Sample Results

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

Job ID: 240-172559-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LB 310-365057/1-B
Matrix: Solid
Analysis Batch: 365378

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 365132

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.10	0.050	mg/L		09/12/22 09:00	09/12/22 17:52	1
Selenium	ND		0.10	0.067	mg/L		09/12/22 09:00	09/12/22 17:52	1
Silver	0.0114	J	0.020	0.0094	mg/L		09/12/22 09:00	09/12/22 17:52	1

Lab Sample ID: LCS 310-365057/2-B
Matrix: Solid
Analysis Batch: 365378

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 365132

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	4.00	4.40		mg/L		110	80 - 120
Barium	2.00	2.02		mg/L		101	80 - 120
Cadmium	2.00	2.08		mg/L		104	80 - 120
Chromium	2.00	2.02		mg/L		101	80 - 120
Lead	4.00	4.10		mg/L		103	80 - 120
Selenium	8.00	8.91		mg/L		111	80 - 120
Silver	2.00	2.26		mg/L		113	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 310-365057/1-C
Matrix: Solid
Analysis Batch: 365323

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 365157

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0012	mg/L		09/09/22 14:28	09/12/22 16:35	1

Lab Sample ID: LCS 310-365057/2-C
Matrix: Solid
Analysis Batch: 365323

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 365157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0167	0.0141		mg/L		85	80 - 120

QC Association Summary

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

Job ID: 240-172559-1

GC Semi VOA

Prep Batch: 365042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-172559-1	ZCSF-090222-001	Total/NA	Solid	3550B	
MB 310-365042/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-365042/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 310-365042/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	

Leach Batch: 365058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-172559-1	ZCSF-090222-001	TCLP	Solid	1311	

Prep Batch: 365129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-172559-1	ZCSF-090222-001	TCLP	Solid	3510C	365058

Analysis Batch: 365864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-172559-1	ZCSF-090222-001	TCLP	Solid	8082A	365129
240-172559-1	ZCSF-090222-001	Total/NA	Solid	8082A	365042
240-172559-1	ZCSF-090222-001	Total/NA	Solid	8082A	365042
MB 310-365042/1-A	Method Blank	Total/NA	Solid	8082A	365042
LCS 310-365042/2-A	Lab Control Sample	Total/NA	Solid	8082A	365042
LCSD 310-365042/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	365042

Analysis Batch: 365999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-172559-1	ZCSF-090222-001	Total/NA	Solid	PCB	

Metals

Leach Batch: 365057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-172559-1	ZCSF-090222-001	TCLP	Solid	1311	
LB 310-365057/1-B	Method Blank	TCLP	Solid	1311	
LB 310-365057/1-C	Method Blank	TCLP	Solid	1311	
LCS 310-365057/2-B	Lab Control Sample	TCLP	Solid	1311	
LCS 310-365057/2-C	Lab Control Sample	TCLP	Solid	1311	

Prep Batch: 365132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-172559-1	ZCSF-090222-001	TCLP	Solid	3010A	365057
LB 310-365057/1-B	Method Blank	TCLP	Solid	3010A	365057
LCS 310-365057/2-B	Lab Control Sample	TCLP	Solid	3010A	365057

Prep Batch: 365157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-172559-1	ZCSF-090222-001	TCLP	Solid	7470A	365057
LB 310-365057/1-C	Method Blank	TCLP	Solid	7470A	365057
LCS 310-365057/2-C	Lab Control Sample	TCLP	Solid	7470A	365057

Analysis Batch: 365323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-172559-1	ZCSF-090222-001	TCLP	Solid	7470A	365157

Eurofins Canton

QC Association Summary

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

Job ID: 240-172559-1

Metals (Continued)

Analysis Batch: 365323 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 310-365057/1-C	Method Blank	TCLP	Solid	7470A	365157
LCS 310-365057/2-C	Lab Control Sample	TCLP	Solid	7470A	365157

Analysis Batch: 365378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 310-365057/1-B	Method Blank	TCLP	Solid	6010C	365132
LCS 310-365057/2-B	Lab Control Sample	TCLP	Solid	6010C	365132

Analysis Batch: 365418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-172559-1	ZCSF-090222-001	TCLP	Solid	6010C	365132

General Chemistry

Analysis Batch: 364829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-172559-1	ZCSF-090222-001	Total/NA	Solid	D92	

Analysis Batch: 364859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-172559-1	ZCSF-090222-001	Total/NA	Solid	Moisture	
240-172559-2	ZCSF-090222-001 DUP	Total/NA	Solid	Moisture	

Lab Chronicle

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

Job ID: 240-172559-1

Client Sample ID: ZCSF-090222-001

Lab Sample ID: 240-172559-1

Date Collected: 09/02/22 12:00

Matrix: Solid

Date Received: 09/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			365058	V7YZ	EET CF	09/08/22 12:00 - 09/09/22 05:00 ¹
TCLP	Prep	3510C			365129	C3AA	EET CF	09/09/22 11:55
TCLP	Analysis	8082A		1	365864	BW2O	EET CF	09/19/22 11:48
Total/NA	Analysis	PCB		1	365999	D2YP	EET CF	09/19/22 16:06
TCLP	Leach	1311			365057	V7YZ	EET CF	09/08/22 12:00 - 09/09/22 05:00 ¹
TCLP	Prep	3010A			365132	QTZ5	EET CF	09/12/22 09:00
TCLP	Analysis	6010C		2	365418	ZRI4	EET CF	09/13/22 11:56
TCLP	Leach	1311			365057	V7YZ	EET CF	09/08/22 12:00 - 09/09/22 05:00 ¹
TCLP	Prep	7470A			365157	XXW3	EET CF	09/09/22 13:28
TCLP	Analysis	7470A		1	365323	XXW3	EET CF	09/12/22 16:59
Total/NA	Analysis	D92		1	364829	WZC8	EET CF	09/07/22 11:57
Total/NA	Analysis	Moisture		1	364859	DGU1	EET CF	09/07/22 13:39

Client Sample ID: ZCSF-090222-001

Lab Sample ID: 240-172559-1

Date Collected: 09/02/22 12:00

Matrix: Solid

Date Received: 09/03/22 09:30

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550B			365042	GW4G	EET CF	09/08/22 17:49
Total/NA	Analysis	8082A		10	365864	BW2O	EET CF	09/19/22 12:13
Total/NA	Prep	3550B			365042	GW4G	EET CF	09/08/22 17:49
Total/NA	Analysis	8082A		50	365864	BW2O	EET CF	09/19/22 13:15

Client Sample ID: ZCSF-090222-001 DUP

Lab Sample ID: 240-172559-2

Date Collected: 09/02/22 12:00

Matrix: Solid

Date Received: 09/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	364859	DGU1	EET CF	09/07/22 13:39

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET 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

Job ID: 240-172559-1

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
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

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

Eurofins - Canton Sample Receipt Form/Narrative Login # : _____
Barberton Facility

Client CJF ASSOCIATE Site Name _____ Cooler unpacked by: Mandy Be
Cooler Received on 9-3-22 Opened on 9-3-22
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # TA 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-13 (CF +0.7 °C) Observed Cooler Temp _____ °C Corrected Cooler Temp _____ °C
IR GUN #IR-15 (CF 0.0°C) Observed Cooler Temp 3.4 °C Corrected Cooler Temp 3.4 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ 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 NA
-Were tamper/custody seals intact and uncompromised? Yes No NA

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# HC286797
14. Were VOAs on the COC? Yes No NA
15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
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
America



240-172559 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: EUROFINS Canton			
City/State:	CITY Barberton	STATE OH	Project.
Receipt Information			
Date/Time Received.	DATE 9/7/22	TIME 955	Received By: EM
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <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: R		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): 3.3		Corrected Temp (°C): 3.3	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1 4oz glass	CONTAINER 2 →	
Uncorrected Temp (°C):	3.3	2.0	
Corrected Temp (°C):	3.3	2.0	
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			

Login Sample Receipt Checklist

Client: CJF Associates, LLC

Job Number: 240-172559-1

Login Number: 172559

List Number: 2

Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

List Creation: 09/07/22 11:15 AM

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.	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 <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	