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Environmental Engineering,
Management and Consulting

September 14, 2023

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 2023

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

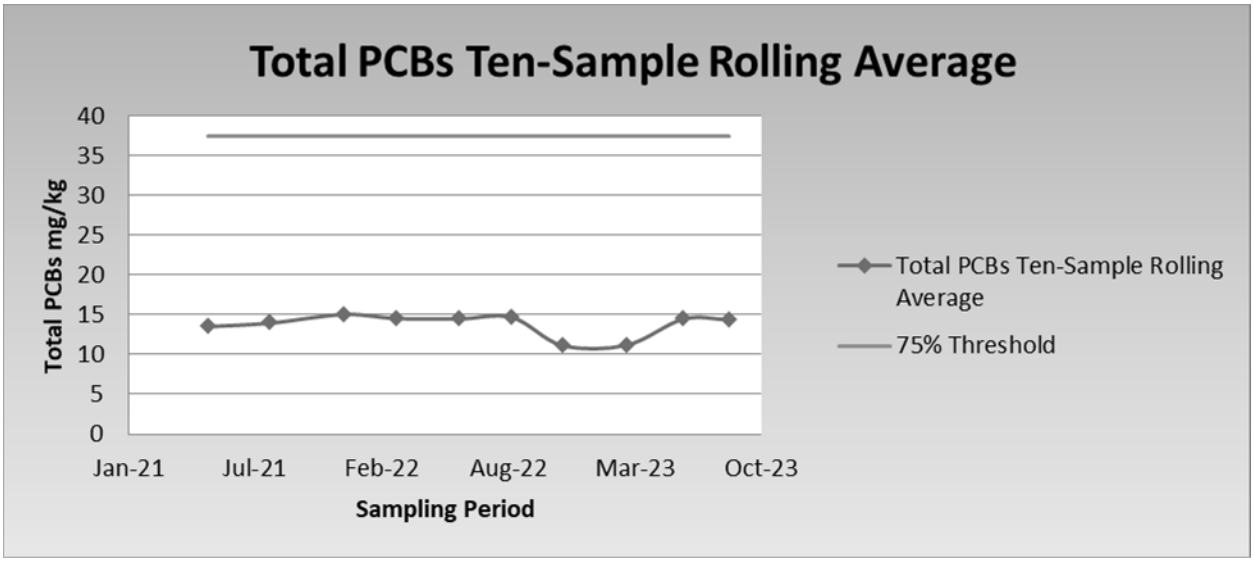
- PCBs concentration this quarter: 23 mg/kg;
- Ten-Sample Rolling PCBs Average: 14.44 mg/kg;
- PCBs TCLP result this quarter is non-detect; and
- All TCLP metal results are below regulatory criteria.

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 July 13, 2023 through July 26, 2023 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 23 mg/kg. TCLP PCBs were not detected above the laboratory reporting limit. Barium and cadmium were the only RCRA metals identified above the laboratory reporting limits but below regulatory TCLP concentrations. Lead was not detected at a concentration above the reporting limit of 0.2 mg/L which does not exceed the regulatory TCLP concentration of 5.0 mg/L. The present ten-sample rolling average for PCBs is 14.44 mg/kg. Rolling averages of the ten-sampling period results for total PCBs are presented below:



Third quarter analytical results are summarized as follows:

	Analyte										
Sample ID	Total PCBs[1]	TCLP PCBs	TCLP Arsenic	TCLP Barium	TCLP Cad	TCLP Chrom	TCLP Lead	TCLP Sel	TCLP Silver	TCLP Mercury	Ignitability[2]
ZCSF-081123-001	23	ND	ND	0.68	0.11	ND	ND	ND	ND	ND	>200

Notes: All TCLP results are reported in mg/L
(1) Results reported in mg/kg
(2) Results reported in degrees Fahrenheit

ND = Not Detected Above Laboratory Detection Limits
NA = Not Analyzed

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
Ryan Mitchell, Iowa Waste Systems Inc.

ATTACHMENT A

LABORATORY ANALYTICAL RESULTS

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Charles Ring
CJF Associates, LLC
PO BOX 80815
St. Claire Shores, Michigan 48080

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JOB DESCRIPTION

Alter Council Bluffs, 1216

JOB NUMBER

240-190097-1

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton OH 44203

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

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Authorized for release by
Denise Heckler, Project Manager II
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Table of Contents

Definitions/Glossary

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

Job ID: 240-190097-1

Qualifiers

GC Semi VOA

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

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

Job ID: 240-190097-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative
240-190097-1

Comments
No additional comments.

Receipt
The samples were received on 8/12/2023 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 1.4º C.

GC Semi VOA
Method 8082A: The following sample was diluted due to the nature of the sample matrix: ZCSF-081123-001 (240-190097-1). 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: The following sample was tumbled in plastic due to matrix: ZCSF-081123-001 (240-190097-1).

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-396821 and 310-396887.The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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: Alter Council Bluffs, 1216

Job ID: 240-190097-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
PCB	Total PCB Calculation	TAL SOP	EET CF
6010D	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: Alter Council Bluffs, 1216

Job ID: 240-190097-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-190097-1	ZCSF-081123-001	Solid	08/11/23 13:30	08/12/23 10:00

Detection Summary

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

Job ID: 240-190097-1

Client Sample ID: ZCSF-081123-001

Lab Sample ID: 240-190097-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	23		7.3	0.79	mg/Kg	100	☼	8082A	Total/NA
Total PCBs	23		7.3	0.79	mg/Kg	1		PCB	Total/NA
Barium	0.68		0.40	0.080	mg/L	2		6010D	TCLP
Cadmium	0.11		0.040	0.0078	mg/L	2		6010D	TCLP
Flashpoint	>200		65.0	65.0	Degrees F	1		D92	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 240-190097-1

Client Sample ID: ZCSF-081123-001

Date Collected: 08/11/23 13:30
Date Received: 08/12/23 10:00

Lab Sample ID: 240-190097-1

Matrix: Solid

Method: SW846 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		08/17/23 07:20	08/23/23 12:26	1
PCB-1221	ND		4.0	1.3	ug/L		08/17/23 07:20	08/23/23 12:26	1
PCB-1232	ND		4.0	1.3	ug/L		08/17/23 07:20	08/23/23 12:26	1
PCB-1242	ND		4.0	1.3	ug/L		08/17/23 07:20	08/23/23 12:26	1
PCB-1248	ND		4.0	1.1	ug/L		08/17/23 07:20	08/23/23 12:26	1
PCB-1254	ND		4.0	1.1	ug/L		08/17/23 07:20	08/23/23 12:26	1
PCB-1260	ND		4.0	1.1	ug/L		08/17/23 07:20	08/23/23 12:26	1
PCB-1268	ND		4.0	1.1	ug/L		08/17/23 07:20	08/23/23 12:26	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		08/17/23 07:20	08/23/23 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*30*		*11 - 122*	*08/17/23 07:20*	*08/23/23 12:26*	*1*
Tetrachloro-m-xylene	*58*		*23 - 123*	*08/17/23 07:20*	*08/23/23 12:26*	*1*

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PCBs	**23**		7.3	0.79	mg/Kg			09/01/23 12:44	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.060	mg/L		08/17/23 08:45	08/20/23 18:05	2
Barium	**0.68**		0.40	0.080	mg/L		08/17/23 08:45	08/20/23 18:05	2
Cadmium	**0.11**		0.040	0.0078	mg/L		08/17/23 08:45	08/20/23 18:05	2
Chromium	ND		0.040	0.012	mg/L		08/17/23 08:45	08/20/23 18:05	2
Lead	ND		0.20	0.052	mg/L		08/17/23 08:45	08/20/23 18:05	2
Selenium	ND		0.20	0.058	mg/L		08/17/23 08:45	08/20/23 18:05	2
Silver	ND		0.10	0.028	mg/L		08/17/23 08:45	08/20/23 18:05	2

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0015	mg/L		08/17/23 08:07	08/17/23 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (ASTM D92)	**>200**		65.0	65.0	Degrees F			08/16/23 15:51	1
Percent Moisture (EPA Moisture)	**20.2**		0.1	0.1	%			08/15/23 15:01	1
Percent Solids (EPA Moisture)	**79.8**		0.1	0.1	%			08/15/23 15:01	1

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

Job ID: 240-190097-1

Client Sample ID: ZCSF-081123-001
Date Collected: 08/11/23 13:30
Date Received: 08/12/23 10:00

Lab Sample ID: 240-190097-1
Matrix: Solid
Percent Solids: 79.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.36	0.0095	mg/Kg	☼	08/25/23 13:26	08/28/23 11:26	5
PCB-1221	ND		0.36	0.097	mg/Kg	☼	08/25/23 13:26	08/28/23 11:26	5
PCB-1232	ND		0.36	0.036	mg/Kg	☼	08/25/23 13:26	08/28/23 11:26	5
PCB-1242	**23**		7.3	0.79	mg/Kg	☼	08/25/23 13:26	08/28/23 12:38	100
PCB-1248	ND		0.36	0.025	mg/Kg	☼	08/25/23 13:26	08/28/23 11:26	5
PCB-1254	ND		0.36	0.023	mg/Kg	☼	08/25/23 13:26	08/28/23 11:26	5
PCB-1260	ND		0.36	0.012	mg/Kg	☼	08/25/23 13:26	08/28/23 11:26	5
PCB-1268	ND		0.36	0.0051	mg/Kg	☼	08/25/23 13:26	08/28/23 11:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*280*	*S1+*	*10 - 149*	*08/25/23 13:26*	*08/28/23 11:26*	*5*
Tetrachloro-m-xylene	*99*		*10 - 147*	*08/25/23 13:26*	*08/28/23 11:26*	*5*

Surrogate Summary

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

Job ID: 240-190097-1

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID	(10-149)	(10-147)
240-190097-1	ZCSF-081123-001	280 S1+	99
LCS 310-397822/2-A	Lab Control Sample	80	84
LCSD 310-397822/3-A	Lab Control Sample Dup	86	72
MB 310-397822/1-A	Method Blank	89	90

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)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID	(11-122)	(23-123)
LCS 310-396887/2-A	Lab Control Sample	45	72
LCSD 310-396887/3-A	Lab Control Sample Dup	35	59

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)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID	(11-122)	(23-123)
240-190097-1	ZCSF-081123-001	30	58
LB 310-396821/1-B	Method Blank	44	57

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

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

Lab Sample ID: LCS 310-396887/2-A
Matrix: Solid
Analysis Batch: 397481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 396887

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			12.5	9.79		ug/L		78	30 - 133		
PCB-1260			12.5	7.77		ug/L		62	31 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*45*		*11 - 122*
Tetrachloro-m-xylene	*72*		*23 - 123*

Lab Sample ID: LCSD 310-396887/3-A
Matrix: Solid
Analysis Batch: 397481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 396887

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			12.5	8.44		ug/L		68	30 - 133	15	35
PCB-1260			12.5	7.12		ug/L		57	31 - 133	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*35*		*11 - 122*
Tetrachloro-m-xylene	*59*		*23 - 123*

Lab Sample ID: MB 310-397822/1-A
Matrix: Solid
Analysis Batch: 397883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 397822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.024	0.00064	mg/Kg		08/25/23 13:26	08/28/23 10:47	1
PCB-1221	ND		0.024	0.0066	mg/Kg		08/25/23 13:26	08/28/23 10:47	1
PCB-1232	ND		0.024	0.0024	mg/Kg		08/25/23 13:26	08/28/23 10:47	1
PCB-1242	ND		0.024	0.0026	mg/Kg		08/25/23 13:26	08/28/23 10:47	1
PCB-1248	ND		0.024	0.0017	mg/Kg		08/25/23 13:26	08/28/23 10:47	1
PCB-1254	ND		0.024	0.0016	mg/Kg		08/25/23 13:26	08/28/23 10:47	1
PCB-1260	ND		0.024	0.00083	mg/Kg		08/25/23 13:26	08/28/23 10:47	1
PCB-1268	ND		0.024	0.00034	mg/Kg		08/25/23 13:26	08/28/23 10:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*10 - 149*	*08/25/23 13:26*	*08/28/23 10:47*	*1*
Tetrachloro-m-xylene	*90*		*10 - 147*	*08/25/23 13:26*	*08/28/23 10:47*	*1*

Lab Sample ID: LCS 310-397822/2-A
Matrix: Solid
Analysis Batch: 397883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 397822

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.198	0.168		mg/Kg		85	33 - 129		
PCB-1260			0.198	0.165		mg/Kg		83	39 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*80*		*10 - 149*

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

Lab Sample ID: LCS 310-397822/2-A
Matrix: Solid
Analysis Batch: 397883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 397822

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*84*		*10 - 147*

Lab Sample ID: LCSD 310-397822/3-A
Matrix: Solid
Analysis Batch: 397883

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 397822

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.194	0.157		mg/Kg		81	33 - 129	7	39
PCB-1260			0.194	0.170		mg/Kg		88	39 - 133	3	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*86*		*10 - 149*
Tetrachloro-m-xylene	*72*		*10 - 147*

Lab Sample ID: LB 310-396821/1-B
Matrix: Solid
Analysis Batch: 397481

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 396887

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		4.0	1.3	ug/L		08/17/23 07:20	08/23/23 11:46	1
PCB-1221	ND		4.0	1.3	ug/L		08/17/23 07:20	08/23/23 11:46	1
PCB-1232	ND		4.0	1.3	ug/L		08/17/23 07:20	08/23/23 11:46	1
PCB-1242	ND		4.0	1.3	ug/L		08/17/23 07:20	08/23/23 11:46	1
PCB-1248	ND		4.0	1.1	ug/L		08/17/23 07:20	08/23/23 11:46	1
PCB-1254	ND		4.0	1.1	ug/L		08/17/23 07:20	08/23/23 11:46	1
PCB-1260	ND		4.0	1.1	ug/L		08/17/23 07:20	08/23/23 11:46	1
PCB-1268	ND		4.0	1.1	ug/L		08/17/23 07:20	08/23/23 11:46	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		08/17/23 07:20	08/23/23 11:46	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*44*		*11 - 122*	*08/17/23 07:20*	*08/23/23 11:46*	*1*
Tetrachloro-m-xylene	*57*		*23 - 123*	*08/17/23 07:20*	*08/23/23 11:46*	*1*

Method: 6010D - Metals (ICP)

Lab Sample ID: LB 310-396820/1-C
Matrix: Solid
Analysis Batch: 397170

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 396901

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.10	0.030	mg/L		08/17/23 08:45	08/18/23 15:11	1
Barium	ND		0.20	0.040	mg/L		08/17/23 08:45	08/18/23 15:11	1
Cadmium	ND		0.020	0.0039	mg/L		08/17/23 08:45	08/18/23 15:11	1
Chromium	ND		0.020	0.0060	mg/L		08/17/23 08:45	08/18/23 15:11	1
Lead	ND		0.10	0.026	mg/L		08/17/23 08:45	08/18/23 15:11	1
Selenium	ND		0.10	0.029	mg/L		08/17/23 08:45	08/18/23 15:11	1
Silver	ND		0.050	0.014	mg/L		08/17/23 08:45	08/18/23 15:11	1

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

Lab Sample ID: LCS 310-396820/2-C
Matrix: Solid
Analysis Batch: 397170

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 396901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	4.00	4.07		mg/L		102	80 - 120
Barium	2.00	1.91		mg/L		96	80 - 120
Cadmium	2.00	1.92		mg/L		96	80 - 120
Chromium	2.00	1.91		mg/L		95	80 - 120
Lead	4.00	3.79		mg/L		95	80 - 120
Selenium	8.00	8.32		mg/L		104	80 - 120
Silver	2.00	1.62		mg/L		81	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 310-396820/1-B
Matrix: Solid
Analysis Batch: 397002

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 396899

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0015	mg/L		08/17/23 08:07	08/17/23 13:41	1

Lab Sample ID: LCS 310-396820/2-B
Matrix: Solid
Analysis Batch: 397002

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 396899

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0167	0.0170		mg/L		102	80 - 120

QC Association Summary

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

Job ID: 240-190097-1

GC Semi VOA

Leach Batch: 396821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190097-1	ZCSF-081123-001	TCLP	Solid	1311	
LB 310-396821/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 396887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190097-1	ZCSF-081123-001	TCLP	Solid	3510C	396821
LB 310-396821/1-B	Method Blank	TCLP	Solid	3510C	396821
LCS 310-396887/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 310-396887/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 397481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190097-1	ZCSF-081123-001	TCLP	Solid	8082A	396887
LB 310-396821/1-B	Method Blank	TCLP	Solid	8082A	396887
LCS 310-396887/2-A	Lab Control Sample	Total/NA	Solid	8082A	396887
LCSD 310-396887/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	396887

Prep Batch: 397822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190097-1	ZCSF-081123-001	Total/NA	Solid	3550B	
MB 310-397822/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-397822/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 310-397822/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	

Analysis Batch: 397883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190097-1	ZCSF-081123-001	Total/NA	Solid	8082A	397822
240-190097-1	ZCSF-081123-001	Total/NA	Solid	8082A	397822
MB 310-397822/1-A	Method Blank	Total/NA	Solid	8082A	397822
LCS 310-397822/2-A	Lab Control Sample	Total/NA	Solid	8082A	397822
LCSD 310-397822/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	397822

Analysis Batch: 398470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190097-1	ZCSF-081123-001	Total/NA	Solid	PCB	

Metals

Leach Batch: 396820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190097-1	ZCSF-081123-001	TCLP	Solid	1311	
LB 310-396820/1-B	Method Blank	TCLP	Solid	1311	
LB 310-396820/1-C	Method Blank	TCLP	Solid	1311	
LCS 310-396820/2-B	Lab Control Sample	TCLP	Solid	1311	
LCS 310-396820/2-C	Lab Control Sample	TCLP	Solid	1311	

Prep Batch: 396899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190097-1	ZCSF-081123-001	TCLP	Solid	7470A	396820
LB 310-396820/1-B	Method Blank	TCLP	Solid	7470A	396820
LCS 310-396820/2-B	Lab Control Sample	TCLP	Solid	7470A	396820

QC Association Summary

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

Job ID: 240-190097-1

Metals

Prep Batch: 396901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190097-1	ZCSF-081123-001	TCLP	Solid	3010A	396820
LB 310-396820/1-C	Method Blank	TCLP	Solid	3010A	396820
LCS 310-396820/2-C	Lab Control Sample	TCLP	Solid	3010A	396820

Analysis Batch: 397002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190097-1	ZCSF-081123-001	TCLP	Solid	7470A	396899
LB 310-396820/1-B	Method Blank	TCLP	Solid	7470A	396899
LCS 310-396820/2-B	Lab Control Sample	TCLP	Solid	7470A	396899

Analysis Batch: 397170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 310-396820/1-C	Method Blank	TCLP	Solid	6010D	396901
LCS 310-396820/2-C	Lab Control Sample	TCLP	Solid	6010D	396901

Analysis Batch: 397257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190097-1	ZCSF-081123-001	TCLP	Solid	6010D	396901

General Chemistry

Analysis Batch: 396696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190097-1	ZCSF-081123-001	Total/NA	Solid	Moisture	

Analysis Batch: 396853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190097-1	ZCSF-081123-001	Total/NA	Solid	D92	

Lab Chronicle

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

Job ID: 240-190097-1

Client Sample ID: ZCSF-081123-001

Lab Sample ID: 240-190097-1

Date Collected: 08/11/23 13:30

Matrix: Solid

Date Received: 08/12/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			396821	FK4Z	EET CF	08/16/23 14:00 - 08/17/23 06:00 [1]
TCLP	Prep	3510C			396887	Y6AF	EET CF	08/17/23 07:20
TCLP	Analysis	8082A		1	397481	BW2O	EET CF	08/23/23 12:26
Total/NA	Analysis	PCB		1	398470	D2YP	EET CF	09/01/23 12:44
TCLP	Leach	1311			396820	FK4Z	EET CF	08/16/23 14:00 - 08/17/23 06:00 [1]
TCLP	Prep	3010A			396901	QTZ5	EET CF	08/17/23 08:45
TCLP	Analysis	6010D		2	397257	ZRI4	EET CF	08/20/23 18:05
TCLP	Leach	1311			396820	FK4Z	EET CF	08/16/23 14:00 - 08/17/23 06:00 [1]
TCLP	Prep	7470A			396899	NFT2	EET CF	08/17/23 08:07
TCLP	Analysis	7470A		1	397002	NFT2	EET CF	08/17/23 13:54
Total/NA	Analysis	D92		1	396853	WZC8	EET CF	08/16/23 15:51
Total/NA	Analysis	Moisture		1	396696	T8GC	EET CF	08/15/23 15:01

Client Sample ID: ZCSF-081123-001

Lab Sample ID: 240-190097-1

Date Collected: 08/11/23 13:30

Matrix: Solid

Date Received: 08/12/23 10:00

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550B			397822	DZK8	EET CF	08/25/23 13:26
Total/NA	Analysis	8082A		5	397883	BW2O	EET CF	08/28/23 11:26
Total/NA	Prep	3550B			397822	DZK8	EET CF	08/25/23 13:26
Total/NA	Analysis	8082A		100	397883	BW2O	EET CF	08/28/23 12:38

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

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
Job ID: 240-190097-1
Project/Site: Alter Council Bluffs, 1216

Laboratory: Eurofins 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	12-01-23

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 Canton
180 S. Van Buren Ave

Barberton, OH 44203-3543
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

1.5/1.4

eurofins | Environment Testing America

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Eurofins Environment Testing America

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
CJF Associates LLC	Email:	Lab Contact:	Carrier:	____1__ of ___1___ COCs
22324 Harper Ave	Tel/Fax:			TALS Project #:
St Clair Shores, MI 48080	Analysis Turnaround Time			Sampler: Charles Ring
(248) 227-5171 Phone	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(xxx) xxx-xxxx FAX	TAT if different from Below ____			Walk-in Client:
Project Name: Alter ZC	☐ 2 weeks			Lab Sampling:
Site: Council Bluffs, Iowa	☐ 1 week			Job / SDG No.:
P O # 1216-01	☐ 2 days ☐ 1 day			

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	Sample Specific Notes:
ZCSF-081123-001	8-11-23	1:30	C	S	4			x	x	x	x	
ZCSF-081123-001 DUP	8-11-23	1:30	C	S	4							Hold

240-190097 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

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

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.: _____

Relinquished by:	Company: CJF	Date/Time: 8-11-23 2:30	Received by:	Company: EC	Date/Time: 8-12-23 1000
Relinquished by:	Company	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :_____
Barberton Facility

Client GJF Associates LLC Site Name_____ Cooler unpacked by:

Cooler Received on 8-12-23 Opened on 8-12-23

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other_____

Receipt After-hours: Drop-off Date/Time_____ Storage Location_____

Eurofins Cooler # EC 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 # 22 (CF_____°C) Observed Cooler Temp. 1.5 °C Corrected Cooler Temp. 1.9 °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
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)?		
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# HC312502
14. Were VOAs on the COC?	Yes	No
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
17. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

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

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: _____

Login Sample Receipt Checklist

Client: CJF Associates, LLC

Job Number: 240-190097-1

Login Number: 190097
List Number: 2
Creator: Costello, Mackenzie K

List Source: Eurofins Cedar Falls
List Creation: 08/15/23 10:35 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	