



Environmental Engineering,  
Management and Consulting

PO Box 80815  
St. Clair Shores  
Michigan 48080

(313) 999-4071 phone  
(586) 777-7101 fax

[www.CJFassociates.com](http://www.CJFassociates.com)

November 27, 2023

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

Dear Ms. Jolly:

Re: Fluff Quarterly Sampling Results  
Alter Metal Recycling - Council Bluffs, Iowa  
4th Quarter 2023

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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: 14 mg/kg;
- Ten-Sample Rolling PCBs Average: 13.34 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.

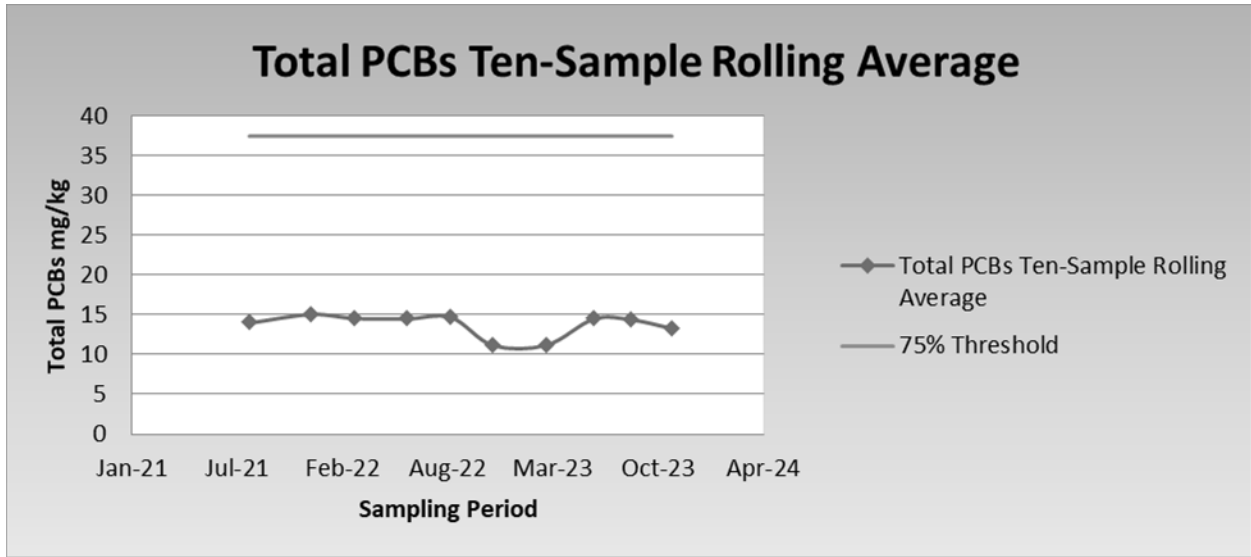
### **Details**

In order to characterize the fluff, samples were collected and analyzed from the bulk seven-day composite sample. The composite sample was collected from September 14, 2023 through October 2, 2023 in accordance with IAC 567, Chapter 118. Samples were analyzed for total Polychlorinated Biphenyls (PCBs), Toxic Characteristic Leaching Procedure (TCLP) PCBs, and TCLP Resource Conservation and Recovery Act (RCRA) metals.

Total PCBs results for the sampling period totaled 14 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. Lead was detected at a concentration of 0.13 mg/L which does not exceed the regulatory TCLP concentration of 5.0 mg/L. The present ten-sample rolling average for PCBs is 13.34 mg/kg. Rolling averages of the ten-sampling period results for total PCBs are presented below:



November 27, 2023



Fourth quarter analytical results are summarized as follows:

Sample ID	Analyte										
	Total PCBs <sup>1</sup>	TCLP PCBs	TCLP Arsenic	TCLP Barium	TCLP Cad	TCLP Chrom	TCLP Lead	TCLP Sel	TCLP Silver	TCLP Mercury	Ignitability <sup>2</sup>
ZCSF-102623-001	14	ND	ND	0.7	0.19	ND	0.13	ND	ND	ND	NA

**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  
Ryan Mitchell, Iowa Waste Systems Inc.

**ATTACHMENT A**

LABORATORY ANALYTICAL RESULTS

 **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 Metals, Council Bluffs, 1216

**JOB NUMBER**

240-194387-1

# Eurofins Cleveland

## 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  
[Denise.Heckler@et.eurofinsus.com](mailto:Denise.Heckler@et.eurofinsus.com)  
(330)966-9477



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# Definitions/Glossary

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

Job ID: 240-194387-1

## 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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

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

Job ID: 240-194387-1

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## Job ID: 240-194387-1

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### Laboratory: Eurofins Cleveland

#### Narrative

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#### Job Narrative 240-194387-1

#### Receipt

The samples were received on 10/27/2023 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.6° C and 3.2° C.

#### GC Semi VOA

Method 8082A: The following sample was diluted due to the nature of the sample matrix: ZCSF-102623-001 (240-194387-1). 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-102623-001 (240-194387-1).

Method 1311: Insufficient samples were provided to perform the leaching procedure with the required 100g for the following sample: ZCSF-102623-001 (240-194387-1). The volume of leaching fluid was adjusted proportionally to maintain a 20:1 ratio of leaching fluid to weight of sample. Reporting limits (RLs) are not affected.

Method 3550B: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: ZCSF-102623-001 (240-194387-1). The reporting limits (RLs) have been adjusted proportionately.

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 Metals, Council Bluffs, 1216

Job ID: 240-194387-1

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
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:

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 Metals, Council Bluffs, 1216

Job ID: 240-194387-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-194387-1	ZCSF-102623-001	Solid	10/26/23 15:15	10/27/23 09:20

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

# Detection Summary

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

Job ID: 240-194387-1

**Client Sample ID: ZCSF-102623-001**

**Lab Sample ID: 240-194387-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	14		3.3	0.35	mg/Kg	40	✱	8082A	Total/NA
Total PCBs	14		3.3	0.87	mg/Kg	1		PCB	Total/NA
Barium	0.70		0.20	0.040	mg/L	1		6010D	TCLP
Cadmium	0.19		0.020	0.0039	mg/L	1		6010D	TCLP
Lead	0.13		0.10	0.026	mg/L	1		6010D	TCLP

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 240-194387-1

**Client Sample ID: ZCSF-102623-001**

**Lab Sample ID: 240-194387-1**

Date Collected: 10/26/23 15:15

Matrix: Solid

Date Received: 10/27/23 09:20

**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		10/31/23 08:00	11/07/23 16:22	1
PCB-1221	ND		4.0	1.3	ug/L		10/31/23 08:00	11/07/23 16:22	1
PCB-1232	ND		4.0	1.3	ug/L		10/31/23 08:00	11/07/23 16:22	1
PCB-1242	ND		4.0	1.3	ug/L		10/31/23 08:00	11/07/23 16:22	1
PCB-1248	ND		4.0	1.1	ug/L		10/31/23 08:00	11/07/23 16:22	1
PCB-1254	ND		4.0	1.1	ug/L		10/31/23 08:00	11/07/23 16:22	1
PCB-1260	ND		4.0	1.1	ug/L		10/31/23 08:00	11/07/23 16:22	1
PCB-1268	ND		4.0	1.1	ug/L		10/31/23 08:00	11/07/23 16:22	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		10/31/23 08:00	11/07/23 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	45		11 - 122				10/31/23 08:00	11/07/23 16:22	1
Tetrachloro-m-xylene	66		23 - 123				10/31/23 08:00	11/07/23 16:22	1

**Method: TAL SOP PCB - Total PCB Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total PCBs</b>	<b>14</b>		3.3	0.87	mg/Kg			11/16/23 19:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.10	0.030	mg/L		10/31/23 10:50	11/08/23 12:01	1
<b>Barium</b>	<b>0.70</b>		0.20	0.040	mg/L		10/31/23 10:50	11/08/23 12:01	1
<b>Cadmium</b>	<b>0.19</b>		0.020	0.0039	mg/L		10/31/23 10:50	11/08/23 12:01	1
Chromium	ND		0.020	0.0060	mg/L		10/31/23 10:50	11/08/23 12:01	1
<b>Lead</b>	<b>0.13</b>		0.10	0.026	mg/L		10/31/23 10:50	11/08/23 12:01	1
Selenium	ND		0.10	0.029	mg/L		10/31/23 10:50	11/08/23 12:01	1
Silver	ND		0.050	0.014	mg/L		10/31/23 10:50	11/08/23 12:01	1

**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		11/01/23 10:28	11/02/23 14:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Moisture (EPA Moisture)</b>	<b>20.5</b>		0.1	0.1	%			10/30/23 05:45	1
<b>Percent Solids (EPA Moisture)</b>	<b>79.5</b>		0.1	0.1	%			10/30/23 05:45	1

# Client Sample Results

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

Job ID: 240-194387-1

**Client Sample ID: ZCSF-102623-001**

**Lab Sample ID: 240-194387-1**

Date Collected: 10/26/23 15:15

Matrix: Solid

Date Received: 10/27/23 09:20

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		3.3	0.085	mg/Kg	☼	11/08/23 09:06	11/16/23 19:04	40
PCB-1221	ND		3.3	0.87	mg/Kg	☼	11/08/23 09:06	11/16/23 19:04	40
PCB-1232	ND		3.3	0.33	mg/Kg	☼	11/08/23 09:06	11/16/23 19:04	40
<b>PCB-1242</b>	<b>14</b>		3.3	0.35	mg/Kg	☼	11/08/23 09:06	11/16/23 19:04	40
PCB-1248	ND		3.3	0.22	mg/Kg	☼	11/08/23 09:06	11/16/23 19:04	40
PCB-1254	ND		3.3	0.21	mg/Kg	☼	11/08/23 09:06	11/16/23 19:04	40
PCB-1260	ND		3.3	0.11	mg/Kg	☼	11/08/23 09:06	11/16/23 19:04	40
PCB-1268	ND		3.3	0.046	mg/Kg	☼	11/08/23 09:06	11/16/23 19:04	40
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	211	S1+	10 - 149				11/08/23 09:06	11/16/23 19:04	40
Tetrachloro-m-xylene	87		10 - 147				11/08/23 09:06	11/16/23 19:04	40

# Surrogate Summary

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

Job ID: 240-194387-1

## 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 (10-149)	TCX1 (10-147)
240-194387-1	ZCSF-102623-001	211 S1+	87
LCS 310-405234/2-A	Lab Control Sample	68	68
LCSD 310-405234/3-A	Lab Control Sample Dup	78	87
MB 310-405234/1-A	Method Blank	84	79

#### 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 (11-122)	TCX1 (23-123)
LCS 310-404289/2-A	Lab Control Sample	48	57
LCSD 310-404289/3-A	Lab Control Sample Dup	54	64

#### 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 (11-122)	TCX1 (23-123)
240-194387-1	ZCSF-102623-001	45	66
LB 310-404232/1-C	Method Blank	59	64

#### Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

# QC Sample Results

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

Job ID: 240-194387-1

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

**Lab Sample ID: LCS 310-404289/2-A**  
**Matrix: Solid**  
**Analysis Batch: 405075**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 404289**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
PCB-1016	12.5	9.22		ug/L		74	30 - 133	
PCB-1260	12.5	7.42		ug/L		59	31 - 133	
<b>LCS LCS</b>								
Surrogate	%Recovery	Qualifier	Limits					
DCB Decachlorobiphenyl (Surr)	48		11 - 122					
Tetrachloro-m-xylene	57		23 - 123					

**Lab Sample ID: LCSD 310-404289/3-A**  
**Matrix: Solid**  
**Analysis Batch: 405075**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 404289**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
									RPD	Limit
PCB-1016	12.5	10.2		ug/L		82	30 - 133	10	35	
PCB-1260	12.5	9.26		ug/L		74	31 - 133	22	35	
<b>LCSD LCSD</b>										
Surrogate	%Recovery	Qualifier	Limits							
DCB Decachlorobiphenyl (Surr)	54		11 - 122							
Tetrachloro-m-xylene	64		23 - 123							

**Lab Sample ID: MB 310-405234/1-A**  
**Matrix: Solid**  
**Analysis Batch: 405390**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 405234**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		0.024	0.00064	mg/Kg		11/08/23 09:06	11/09/23 19:10	1
PCB-1221	ND		0.024	0.0066	mg/Kg		11/08/23 09:06	11/09/23 19:10	1
PCB-1232	ND		0.024	0.0024	mg/Kg		11/08/23 09:06	11/09/23 19:10	1
PCB-1242	ND		0.024	0.0026	mg/Kg		11/08/23 09:06	11/09/23 19:10	1
PCB-1248	ND		0.024	0.0017	mg/Kg		11/08/23 09:06	11/09/23 19:10	1
PCB-1254	ND		0.024	0.0016	mg/Kg		11/08/23 09:06	11/09/23 19:10	1
PCB-1260	ND		0.024	0.00083	mg/Kg		11/08/23 09:06	11/09/23 19:10	1
PCB-1268	ND		0.024	0.00034	mg/Kg		11/08/23 09:06	11/09/23 19:10	1
<b>MB MB</b>									
Surrogate	%Recovery	Qualifier	Limits	Prepared		Analyzed		Dil Fac	
DCB Decachlorobiphenyl (Surr)	84		10 - 149	11/08/23 09:06		11/09/23 19:10		1	
Tetrachloro-m-xylene	79		10 - 147	11/08/23 09:06		11/09/23 19:10		1	

**Lab Sample ID: LCS 310-405234/2-A**  
**Matrix: Solid**  
**Analysis Batch: 405390**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 405234**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
PCB-1016	0.198	0.161		mg/Kg		81	33 - 129	
PCB-1260	0.198	0.160		mg/Kg		81	39 - 133	
<b>LCS LCS</b>								
Surrogate	%Recovery	Qualifier	Limits					
DCB Decachlorobiphenyl (Surr)	68		10 - 149					

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# QC Sample Results

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

Job ID: 240-194387-1

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

**Lab Sample ID: LCS 310-405234/2-A**  
**Matrix: Solid**  
**Analysis Batch: 405390**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 405234**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	68		10 - 147

**Lab Sample ID: LCSD 310-405234/3-A**  
**Matrix: Solid**  
**Analysis Batch: 405390**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 405234**

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier						
PCB-1016	0.194	0.198		mg/Kg		102	33 - 129	21	39
PCB-1260	0.194	0.195		mg/Kg		101	39 - 133	20	40

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	78		10 - 149
Tetrachloro-m-xylene	87		10 - 147

**Lab Sample ID: LB 310-404232/1-C**  
**Matrix: Solid**  
**Analysis Batch: 405075**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 404289**

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		4.0	1.3	ug/L		10/31/23 06:06	11/07/23 15:00	1
PCB-1221	ND		4.0	1.3	ug/L		10/31/23 06:06	11/07/23 15:00	1
PCB-1232	ND		4.0	1.3	ug/L		10/31/23 06:06	11/07/23 15:00	1
PCB-1242	ND		4.0	1.3	ug/L		10/31/23 06:06	11/07/23 15:00	1
PCB-1248	ND		4.0	1.1	ug/L		10/31/23 06:06	11/07/23 15:00	1
PCB-1254	ND		4.0	1.1	ug/L		10/31/23 06:06	11/07/23 15:00	1
PCB-1260	ND		4.0	1.1	ug/L		10/31/23 06:06	11/07/23 15:00	1
PCB-1268	ND		4.0	1.1	ug/L		10/31/23 06:06	11/07/23 15:00	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		10/31/23 06:06	11/07/23 15:00	1

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	59		11 - 122	10/31/23 06:06	11/07/23 15:00	1
Tetrachloro-m-xylene	64		23 - 123	10/31/23 06:06	11/07/23 15:00	1

## Method: 6010D - Metals (ICP)

**Lab Sample ID: LB 310-404230/1-C**  
**Matrix: Solid**  
**Analysis Batch: 405312**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 404345**

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.10	0.030	mg/L		10/31/23 10:50	11/08/23 11:34	1
Barium	ND		0.20	0.040	mg/L		10/31/23 10:50	11/08/23 11:34	1
Cadmium	ND		0.020	0.0039	mg/L		10/31/23 10:50	11/08/23 11:34	1
Chromium	ND		0.020	0.0060	mg/L		10/31/23 10:50	11/08/23 11:34	1
Lead	ND		0.10	0.026	mg/L		10/31/23 10:50	11/08/23 11:34	1
Selenium	ND		0.10	0.029	mg/L		10/31/23 10:50	11/08/23 11:34	1
Silver	ND		0.050	0.014	mg/L		10/31/23 10:50	11/08/23 11:34	1

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# QC Sample Results

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

Job ID: 240-194387-1

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

**Lab Sample ID: LCS 310-404230/2-C**  
**Matrix: Solid**  
**Analysis Batch: 405312**

**Client Sample ID: Lab Control Sample**  
**Prep Type: TCLP**  
**Prep Batch: 404345**

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	2.07		mg/L		104	80 - 120
Cadmium	2.00	1.99		mg/L		99	80 - 120
Chromium	2.00	1.97		mg/L		99	80 - 120
Lead	4.00	4.01		mg/L		100	80 - 120
Selenium	8.00	8.47		mg/L		106	80 - 120
Silver	2.00	1.95		mg/L		98	80 - 120

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: LB 310-404230/1-D**  
**Matrix: Solid**  
**Analysis Batch: 404685**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 404471**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0015	mg/L		11/01/23 10:28	11/02/23 15:54	1

**Lab Sample ID: LCS 310-404230/2-D**  
**Matrix: Solid**  
**Analysis Batch: 404685**

**Client Sample ID: Lab Control Sample**  
**Prep Type: TCLP**  
**Prep Batch: 404471**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0167	0.0186		mg/L		112	80 - 120

# QC Association Summary

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

Job ID: 240-194387-1

## GC Semi VOA

### Leach Batch: 404232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194387-1	ZCSF-102623-001	TCLP	Solid	1311	
LB 310-404232/1-C	Method Blank	TCLP	Solid	1311	

### Prep Batch: 404289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194387-1	ZCSF-102623-001	TCLP	Solid	3510C	404232
LB 310-404232/1-C	Method Blank	TCLP	Solid	3510C	404232
LCS 310-404289/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 310-404289/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

### Analysis Batch: 405075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194387-1	ZCSF-102623-001	TCLP	Solid	8082A	404289
LB 310-404232/1-C	Method Blank	TCLP	Solid	8082A	404289
LCS 310-404289/2-A	Lab Control Sample	Total/NA	Solid	8082A	404289
LCSD 310-404289/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	404289

### Prep Batch: 405234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194387-1	ZCSF-102623-001	Total/NA	Solid	3550B	
MB 310-405234/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-405234/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 310-405234/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	

### Analysis Batch: 405390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-405234/1-A	Method Blank	Total/NA	Solid	8082A	405234
LCS 310-405234/2-A	Lab Control Sample	Total/NA	Solid	8082A	405234
LCSD 310-405234/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	405234

### Analysis Batch: 406214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194387-1	ZCSF-102623-001	Total/NA	Solid	8082A	405234

### Analysis Batch: 406389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194387-1	ZCSF-102623-001	Total/NA	Solid	PCB	

## Metals

### Leach Batch: 404230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194387-1	ZCSF-102623-001	TCLP	Solid	1311	
LB 310-404230/1-C	Method Blank	TCLP	Solid	1311	
LB 310-404230/1-D	Method Blank	TCLP	Solid	1311	
LCS 310-404230/2-C	Lab Control Sample	TCLP	Solid	1311	
LCS 310-404230/2-D	Lab Control Sample	TCLP	Solid	1311	

### Prep Batch: 404345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194387-1	ZCSF-102623-001	TCLP	Solid	3010A	404230

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# QC Association Summary

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

Job ID: 240-194387-1

## Metals (Continued)

### Prep Batch: 404345 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 310-404230/1-C	Method Blank	TCLP	Solid	3010A	404230
LCS 310-404230/2-C	Lab Control Sample	TCLP	Solid	3010A	404230

### Prep Batch: 404471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194387-1	ZCSF-102623-001	TCLP	Solid	7470A	404230
LB 310-404230/1-D	Method Blank	TCLP	Solid	7470A	404230
LCS 310-404230/2-D	Lab Control Sample	TCLP	Solid	7470A	404230

### Analysis Batch: 404685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194387-1	ZCSF-102623-001	TCLP	Solid	7470A	404471
LB 310-404230/1-D	Method Blank	TCLP	Solid	7470A	404471
LCS 310-404230/2-D	Lab Control Sample	TCLP	Solid	7470A	404471

### Analysis Batch: 405312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194387-1	ZCSF-102623-001	TCLP	Solid	6010D	404345
LB 310-404230/1-C	Method Blank	TCLP	Solid	6010D	404345
LCS 310-404230/2-C	Lab Control Sample	TCLP	Solid	6010D	404345

## General Chemistry

### Analysis Batch: 404126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194387-1	ZCSF-102623-001	Total/NA	Solid	Moisture	

# Lab Chronicle

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

Job ID: 240-194387-1

**Client Sample ID: ZCSF-102623-001**

**Lab Sample ID: 240-194387-1**

**Date Collected: 10/26/23 15:15**

**Matrix: Solid**

**Date Received: 10/27/23 09:20**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			404232	FK4Z	EET CF	10/30/23 14:00 - 10/31/23 06:00 <sup>1</sup>
TCLP	Prep	3510C			404289	Y6AF	EET CF	10/31/23 08:00
TCLP	Analysis	8082A		1	405075	BW2O	EET CF	11/07/23 16:22
Total/NA	Analysis	PCB		1	406389	D2YP	EET CF	11/16/23 19:04
TCLP	Leach	1311			404230	FK4Z	EET CF	10/30/23 14:00 - 10/31/23 06:00 <sup>1</sup>
TCLP	Prep	3010A			404345	KCK5	EET CF	10/31/23 10:50
TCLP	Analysis	6010D		1	405312	ZRI4	EET CF	11/08/23 12:01
TCLP	Leach	1311			404230	FK4Z	EET CF	10/30/23 14:00 - 10/31/23 06:00 <sup>1</sup>
TCLP	Prep	7470A			404471	NFT2	EET CF	11/01/23 10:28
TCLP	Analysis	7470A		1	404685	NFT2	EET CF	11/02/23 14:00
Total/NA	Analysis	Moisture		1	404126	DGU1	EET CF	10/30/23 05:45

**Client Sample ID: ZCSF-102623-001**

**Lab Sample ID: 240-194387-1**

**Date Collected: 10/26/23 15:15**

**Matrix: Solid**

**Date Received: 10/27/23 09:20**

**Percent Solids: 79.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550B			405234	DZK8	EET CF	11/08/23 09:06
Total/NA	Analysis	8082A		40	406214	BW2O	EET CF	11/16/23 19:04

<sup>1</sup> 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  
Project/Site: Alter Metals, Council Bluffs, 1216

Job ID: 240-194387-1

## 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
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

3/4/2  
3/3/2



Environment Testing  
America

Eurofins Environment Testing America

Regulatory Program:  DW  NPDES  RCRA  Other:

<b>Client Contact</b> Your Company Name here: <u>CF Associates LLC</u> Address: <u>27324 Warner Avenue</u> City/State/Zip: <u>Clayton, OH 44020</u> (xxx) xxx-xxxx: <u>(440) 227-4880</u> Phone - <u>SFH</u> (xxx) xxx-xxxx: _____ FAX Project Name: <u>APPC EC</u> Site: <u>Company Buffs, Iowa</u> P.O.# _____		<b>Project Manager:</b> Email: _____ Tel/Fax: _____ 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		<b>Site Contact:</b> _____ <b>Lab Contact:</b> _____ Perform MS/MSD (Y/N) _____ Filtered Sample (Y/N) _____		Date: _____ Carrier: _____ TALS Project #: _____ Sampler: <u>Rachael Perry</u> For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: _____		COC No.: _____ of _____ COCs
<b>Sample Identification</b> <u>ECF-102023-001</u> <u>-001 DUP</u>			Sample Date: <u>10-26-23</u>	Sample Time: <u>3:15</u>	Sample Type (C-Comp, G-Grab): <u>C</u>	Matrix: <u>S</u>	# of Cont.: <u>6</u>	Sample Specific Notes: <u>HOLD</u> <div style="border: 1px solid black; padding: 5px; display: inline-block;">                     240-194387 Chain of Custody  </div>
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other								
Possible Hazard Identification: _____ Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.								
Special Instructions/QC Requirements & Comments: <u>The samples are ASR From Iowa and need Iowa standards.</u>								
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months								
Relinquished by: <u>Rachael Perry</u>		Relinquished by: _____		Relinquished by: _____		Relinquished by: _____		
Relinquished by: _____		Relinquished by: _____		Relinquished by: _____		Relinquished by: _____		



Client CJF Associates LLC Site Name \_\_\_\_\_

Cooler unpacked by: [Signature]

Cooler Received on 10-27-23 Opened on 10-27-23

FedEx: 1<sup>st</sup> 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 # 21 (CF -0.2 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C

- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 2
  - 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

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

- 3. Shippers' packing slip attached to the cooler(s)?  Yes No
- 4. Did custody papers accompany the sample(s)?  Yes No
- 5. Were the custody papers relinquished & signed in the appropriate place?  Yes No
- 6. Was/were the person(s) who collected the samples clearly identified on the COC?  Yes No
- 7. Did all bottles arrive in good condition (Unbroken)?  Yes No
- 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?  Yes No
- 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?  Yes No
- 10. Were correct bottle(s) used for the test(s) indicated?  Yes No
- 11. Sufficient quantity received to perform indicated analyses?  Yes No
- 12. Are these work share samples and all listed on the COC? Yes  No
- If yes, Questions 13-17 have been checked at the originating laboratory.
- 13. Were all preserved sample(s) at the correct pH upon receipt? Yes No  NA pH Strip Lot# HC316719
- 14. Were VOAs on the COC? Yes  No
- 15. Were air bubbles >6 mm in any VOA vials?  Yes  NA Larger than this.
- 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

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: 240-194387-1

**Login Number: 194387**

**List Number: 2**

**Creator: Costello, Mackenzie K**

**List Source: Eurofins Cedar Falls**

**List Creation: 10/28/23 11:40 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

