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December 4, 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 – Mason City, Iowa  
4th Quarter 2023

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

### **Summary**

- PCB concentration this quarter: 25 mg/kg;
- Ten-Sample Rolling PCB Average: 18.37 mg/kg;
- PCB 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.

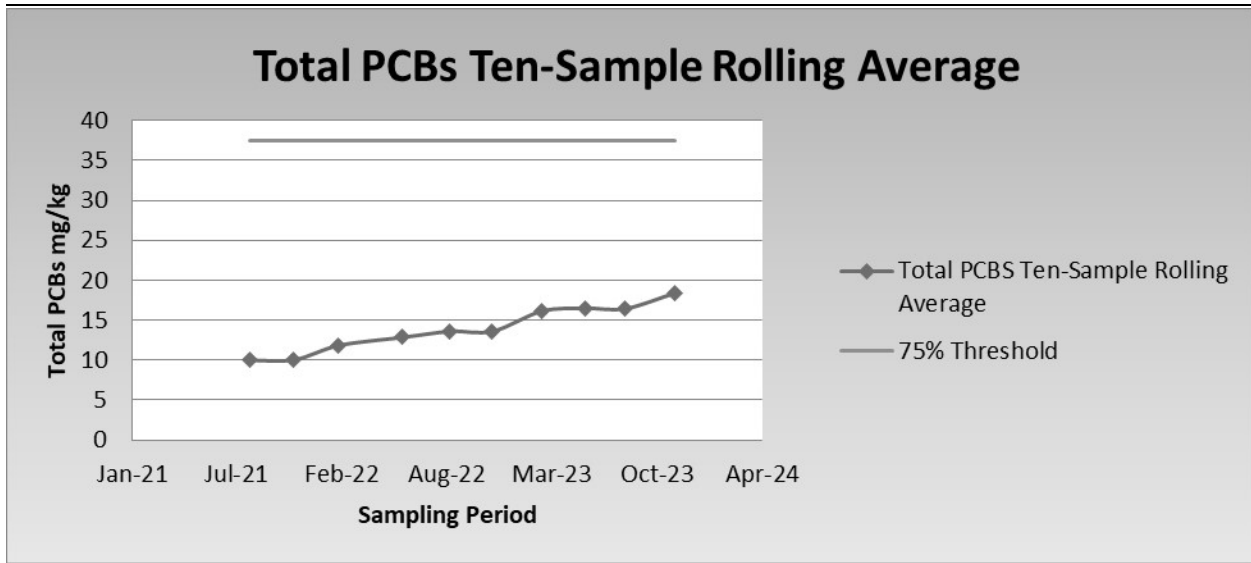
### **Details**

In order to characterize the fluff, samples were collected and analyzed from the bulk seven-day composite sample. The composite sample was collected from October 17, 2023 through October 25, 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 11 mg/kg. Barium, cadmium, and lead were the only RCRA metals identified above the laboratory reporting limits. Lead was identified at a concentration of 0.11 mg/L which does not exceed the regulatory TCLP concentration of 5.0 mg/L. The present ten-sample rolling average for PCBs is 18.37 mg/kg. Rolling averages of the ten-sampling period results for total PCBs are presented below:



December 4, 2023



Fourth quarter analytical results are summarized as follows:

Sample ID	Analyte										Ignitability <sup>2</sup>
	Total PCBs <sup>1</sup>	TCLP PCBs	TCLP Arsenic	TCLP Barium	TCLP Cad	TCLP Chrom	TCLP Lead	TCLP Sel	TCLP Silver	TCLP Mercury	
MCSF-112923-001	25	ND	ND	0.89	0.22	ND	0.11	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

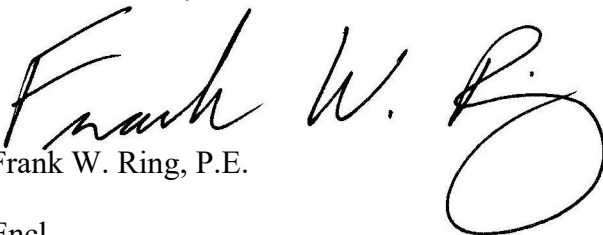
NA = Not Analyzed

(2) Results reported in Degrees F

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  
Bill Rowland, Landfill of Iowa North

**ATTACHMENT A**

LABORATORY ANALYTICAL RESULTS



# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 11/29/2023 6:50:06 AM

## JOB DESCRIPTION

Alter Mason City, 1218-01

## JOB NUMBER

240-194862-1

# 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  
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# Definitions/Glossary

Client: CJF Associates, LLC  
Project/Site: Alter Mason City, 1218-01

Job ID: 240-194862-1

## 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: Alter Mason City, 1218-01

Job ID: 240-194862-1

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## Job ID: 240-194862-1

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### Laboratory: Eurofins Cleveland

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#### Narrative

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#### Job Narrative 240-194862-1

#### Receipt

The samples were received on 11/6/2023 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 time was 5.8°C

#### PCBs

Method 8082A: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: MCSF-110323-001 (240-194862-1). The reporting limits (RLs) have been adjusted proportionately.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: MCSF-110323-001 (240-194862-1). Elevated reporting limits (RLs) are provided.

Method 8082A: Surrogate recovery for the following sample was outside control limits: MCSF-110323-001 (240-194862-1). 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 additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### General Chemistry

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 Mason City, 1218-01

Job ID: 240-194862-1

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 Mason City, 1218-01

Job ID: 240-194862-1

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<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
240-194862-1	MCSF-110323-001	Solid	11/03/23 15:00	11/06/23 09:30

1

2

3

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15

# Detection Summary

Client: CJF Associates, LLC  
Project/Site: Alter Mason City, 1218-01

Job ID: 240-194862-1

**Client Sample ID: MCSF-110323-001**

**Lab Sample ID: 240-194862-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	25		6.7	0.73	mg/Kg	50	✳	8082A	Total/NA
Total PCBs	25		6.7	0.73	mg/Kg	1		PCB	Total/NA
Barium	0.89		0.60	0.12	mg/L	3		6010D	TCLP
Cadmium	0.22		0.060	0.012	mg/L	3		6010D	TCLP
Lead	0.11	J	0.30	0.078	mg/L	3		6010D	TCLP
Flashpoint	>200		65.0	65.0	Degrees F	1		D92	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

# Client Sample Results

Client: CJF Associates, LLC  
Project/Site: Alter Mason City, 1218-01

Job ID: 240-194862-1

**Client Sample ID: MCSF-110323-001**

**Lab Sample ID: 240-194862-1**

Date Collected: 11/03/23 15:00

Matrix: Solid

Date Received: 11/06/23 09:30

**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		11/09/23 06:06	11/15/23 14:56	1
PCB-1221	ND		4.0	1.3	ug/L		11/09/23 06:06	11/15/23 14:56	1
PCB-1232	ND		4.0	1.3	ug/L		11/09/23 06:06	11/15/23 14:56	1
PCB-1242	ND		4.0	1.3	ug/L		11/09/23 06:06	11/15/23 14:56	1
PCB-1248	ND		4.0	1.1	ug/L		11/09/23 06:06	11/15/23 14:56	1
PCB-1254	ND		4.0	1.1	ug/L		11/09/23 06:06	11/15/23 14:56	1
PCB-1260	ND		4.0	1.1	ug/L		11/09/23 06:06	11/15/23 14:56	1
PCB-1268	ND		4.0	1.1	ug/L		11/09/23 06:06	11/15/23 14:56	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		11/09/23 06:06	11/15/23 14:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	44		11 - 122				11/09/23 06:06	11/15/23 14:56	1
Tetrachloro-m-xylene	50		23 - 123				11/09/23 06:06	11/15/23 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total PCBs</b>	<b>25</b>		6.7	0.73	mg/Kg			11/17/23 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.30	0.090	mg/L		11/09/23 09:20	11/12/23 11:44	3
<b>Barium</b>	<b>0.89</b>		0.60	0.12	mg/L		11/09/23 09:20	11/12/23 11:44	3
<b>Cadmium</b>	<b>0.22</b>		0.060	0.012	mg/L		11/09/23 09:20	11/12/23 11:44	3
Chromium	ND		0.060	0.018	mg/L		11/09/23 09:20	11/12/23 11:44	3
<b>Lead</b>	<b>0.11</b>	<b>J</b>	0.30	0.078	mg/L		11/09/23 09:20	11/12/23 11:44	3
Selenium	ND		0.30	0.087	mg/L		11/09/23 09:20	11/12/23 11:44	3
Silver	ND		0.15	0.042	mg/L		11/09/23 09:20	11/12/23 11:44	3

**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		11/17/23 11:45	11/20/23 11:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Flashpoint (ASTM D92)</b>	<b>&gt;200</b>		65.0	65.0	Degrees F			11/15/23 17:06	1
<b>Percent Moisture (EPA Moisture)</b>	<b>20.9</b>		0.1	0.1	%			11/07/23 12:57	1
<b>Percent Solids (EPA Moisture)</b>	<b>79.1</b>		0.1	0.1	%			11/07/23 12:57	1

# Client Sample Results

Client: CJF Associates, LLC  
 Project/Site: Alter Mason City, 1218-01

Job ID: 240-194862-1

**Client Sample ID: MCSF-110323-001**

**Lab Sample ID: 240-194862-1**

**Date Collected: 11/03/23 15:00**

**Matrix: Solid**

**Date Received: 11/06/23 09:30**

**Percent Solids: 79.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.13	0.0035	mg/Kg	☼	11/17/23 08:19	11/17/23 13:22	1
PCB-1221	ND		0.13	0.036	mg/Kg	☼	11/17/23 08:19	11/17/23 13:22	1
PCB-1232	ND		0.13	0.013	mg/Kg	☼	11/17/23 08:19	11/17/23 13:22	1
<b>PCB-1242</b>	<b>25</b>		6.7	0.73	mg/Kg	☼	11/17/23 08:19	11/17/23 13:40	50
PCB-1248	ND		0.13	0.0091	mg/Kg	☼	11/17/23 08:19	11/17/23 13:22	1
PCB-1254	ND		0.13	0.0086	mg/Kg	☼	11/17/23 08:19	11/17/23 13:22	1
PCB-1260	ND		0.13	0.0046	mg/Kg	☼	11/17/23 08:19	11/17/23 13:22	1
PCB-1268	ND		0.13	0.0019	mg/Kg	☼	11/17/23 08:19	11/17/23 13:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	215	S1+	10 - 149				11/17/23 08:19	11/17/23 13:22	1
Tetrachloro-m-xylene	38		10 - 147				11/17/23 08:19	11/17/23 13:22	1

# Surrogate Summary

Client: CJF Associates, LLC  
Project/Site: Alter Mason City, 1218-01

Job ID: 240-194862-1

## 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)
240-194862-1	MCSF-110323-001	215 S1+	38
LCS 310-406343/2-A	Lab Control Sample	65	69
LCSD 310-406343/3-A	Lab Control Sample Dup	66	71
MB 310-406343/1-A	Method Blank	71	70

#### 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	DCB2 (11-122)	TCX2 (23-123)
LCS 310-405358/2-A	Lab Control Sample	56	51
LCSD 310-405358/3-A	Lab Control Sample Dup	45	45

#### Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

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

Matrix: Solid

Prep Type: TCLP

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB2 (11-122)	TCX2 (23-123)
240-194862-1	MCSF-110323-001	44	50
LB 310-405284/1-C	Method Blank	79	47

#### Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

# QC Sample Results

Client: CJF Associates, LLC  
 Project/Site: Alter Mason City, 1218-01

Job ID: 240-194862-1

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

**Lab Sample ID: LCS 310-405358/2-A**  
**Matrix: Solid**  
**Analysis Batch: 406051**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 405358**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
PCB-1016	12.5	10.7		ug/L		86	30 - 133	
PCB-1260	12.5	11.1		ug/L		89	31 - 133	
<b>LCS LCS</b>								
Surrogate	%Recovery	Qualifier	Limits					
DCB Decachlorobiphenyl (Surr)	56		11 - 122					
Tetrachloro-m-xylene	51		23 - 123					

**Lab Sample ID: LCSD 310-405358/3-A**  
**Matrix: Solid**  
**Analysis Batch: 406051**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 405358**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
									RPD	Limit
PCB-1016	12.5	8.81		ug/L		70	30 - 133	12	35	
PCB-1260	12.5	8.93		ug/L		71	31 - 133	6	35	
<b>LCSD LCSD</b>										
Surrogate	%Recovery	Qualifier	Limits							
DCB Decachlorobiphenyl (Surr)	45		11 - 122							
Tetrachloro-m-xylene	45		23 - 123							

**Lab Sample ID: MB 310-406343/1-A**  
**Matrix: Solid**  
**Analysis Batch: 406359**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 406343**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		0.024	0.00063	mg/Kg		11/17/23 08:19	11/17/23 12:43	1
PCB-1221	ND		0.024	0.0065	mg/Kg		11/17/23 08:19	11/17/23 12:43	1
PCB-1232	ND		0.024	0.0024	mg/Kg		11/17/23 08:19	11/17/23 12:43	1
PCB-1242	ND		0.024	0.0026	mg/Kg		11/17/23 08:19	11/17/23 12:43	1
PCB-1248	ND		0.024	0.0017	mg/Kg		11/17/23 08:19	11/17/23 12:43	1
PCB-1254	ND		0.024	0.0016	mg/Kg		11/17/23 08:19	11/17/23 12:43	1
PCB-1260	ND		0.024	0.00083	mg/Kg		11/17/23 08:19	11/17/23 12:43	1
PCB-1268	ND		0.024	0.00034	mg/Kg		11/17/23 08:19	11/17/23 12:43	1
<b>MB MB</b>									
Surrogate	%Recovery	Qualifier	Limits	Prepared		Analyzed		Dil Fac	
DCB Decachlorobiphenyl (Surr)	71		10 - 149	11/17/23 08:19		11/17/23 12:43		1	
Tetrachloro-m-xylene	70		10 - 147	11/17/23 08:19		11/17/23 12:43		1	

**Lab Sample ID: LCS 310-406343/2-A**  
**Matrix: Solid**  
**Analysis Batch: 406359**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 406343**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
PCB-1016	0.196	0.149		mg/Kg		76	33 - 129	
PCB-1260	0.196	0.147		mg/Kg		75	39 - 133	
<b>LCS LCS</b>								
Surrogate	%Recovery	Qualifier	Limits					
DCB Decachlorobiphenyl (Surr)	65		10 - 149					

Eurofins Cleveland

# QC Sample Results

Client: CJF Associates, LLC  
 Project/Site: Alter Mason City, 1218-01

Job ID: 240-194862-1

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

**Lab Sample ID: LCS 310-406343/2-A**  
**Matrix: Solid**  
**Analysis Batch: 406359**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 406343**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	69		10 - 147

**Lab Sample ID: LCSD 310-406343/3-A**  
**Matrix: Solid**  
**Analysis Batch: 406359**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 406343**

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
PCB-1016	0.195	0.152		mg/Kg		78	33 - 129	2	39	
PCB-1260	0.195	0.152		mg/Kg		78	39 - 133	3	40	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	66		10 - 149
Tetrachloro-m-xylene	71		10 - 147

**Lab Sample ID: LB 310-405284/1-C**  
**Matrix: Solid**  
**Analysis Batch: 406051**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 405358**

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		4.0	1.3	ug/L		11/09/23 06:06	11/15/23 14:17	1
PCB-1221	ND		4.0	1.3	ug/L		11/09/23 06:06	11/15/23 14:17	1
PCB-1232	ND		4.0	1.3	ug/L		11/09/23 06:06	11/15/23 14:17	1
PCB-1242	ND		4.0	1.3	ug/L		11/09/23 06:06	11/15/23 14:17	1
PCB-1248	ND		4.0	1.1	ug/L		11/09/23 06:06	11/15/23 14:17	1
PCB-1254	ND		4.0	1.1	ug/L		11/09/23 06:06	11/15/23 14:17	1
PCB-1260	ND		4.0	1.1	ug/L		11/09/23 06:06	11/15/23 14:17	1
PCB-1268	ND		4.0	1.1	ug/L		11/09/23 06:06	11/15/23 14:17	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		11/09/23 06:06	11/15/23 14:17	1

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	79		11 - 122	11/09/23 06:06	11/15/23 14:17	1
Tetrachloro-m-xylene	47		23 - 123	11/09/23 06:06	11/15/23 14:17	1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: LB 310-405282/1-E**  
**Matrix: Solid**  
**Analysis Batch: 406628**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 406402**

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.0020	0.0015	mg/L		11/17/23 11:45	11/20/23 10:56	1

**Lab Sample ID: LCS 310-405282/2-E**  
**Matrix: Solid**  
**Analysis Batch: 406628**

**Client Sample ID: Lab Control Sample**  
**Prep Type: TCLP**  
**Prep Batch: 406402**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	
Mercury	0.0167	0.0172		mg/L		103	80 - 120	

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# QC Sample Results

Client: CJF Associates, LLC  
Project/Site: Alter Mason City, 1218-01

Job ID: 240-194862-1

## Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 240-194862-1 MS  
Matrix: Solid  
Analysis Batch: 406628

Client Sample ID: MCSF-110323-001  
Prep Type: TCLP  
Prep Batch: 406402

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.0167	0.0182		mg/L		109	80 - 120

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# QC Association Summary

Client: CJF Associates, LLC  
Project/Site: Alter Mason City, 1218-01

Job ID: 240-194862-1

## GC Semi VOA

### Leach Batch: 405284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194862-1	MCSF-110323-001	TCLP	Solid	1311	
LB 310-405284/1-C	Method Blank	TCLP	Solid	1311	

### Prep Batch: 405358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194862-1	MCSF-110323-001	TCLP	Solid	3510C	405284
LB 310-405284/1-C	Method Blank	TCLP	Solid	3510C	405284
LCS 310-405358/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 310-405358/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

### Analysis Batch: 406051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194862-1	MCSF-110323-001	TCLP	Solid	8082A	405358
LB 310-405284/1-C	Method Blank	TCLP	Solid	8082A	405358
LCS 310-405358/2-A	Lab Control Sample	Total/NA	Solid	8082A	405358
LCSD 310-405358/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	405358

### Prep Batch: 406343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194862-1	MCSF-110323-001	Total/NA	Solid	3550B	
MB 310-406343/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-406343/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 310-406343/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	

### Analysis Batch: 406359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194862-1	MCSF-110323-001	Total/NA	Solid	8082A	406343
240-194862-1	MCSF-110323-001	Total/NA	Solid	8082A	406343
MB 310-406343/1-A	Method Blank	Total/NA	Solid	8082A	406343
LCS 310-406343/2-A	Lab Control Sample	Total/NA	Solid	8082A	406343
LCSD 310-406343/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	406343

### Analysis Batch: 407207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194862-1	MCSF-110323-001	Total/NA	Solid	PCB	

## Metals

### Leach Batch: 405282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194862-1	MCSF-110323-001	TCLP	Solid	1311	
LB 310-405282/1-E	Method Blank	TCLP	Solid	1311	
LCS 310-405282/2-E	Lab Control Sample	TCLP	Solid	1311	
240-194862-1 MS	MCSF-110323-001	TCLP	Solid	1311	

### Prep Batch: 405420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194862-1	MCSF-110323-001	TCLP	Solid	3010A	405282

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# QC Association Summary

Client: CJF Associates, LLC  
Project/Site: Alter Mason City, 1218-01

Job ID: 240-194862-1

## Metals

### Analysis Batch: 405718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194862-1	MCSF-110323-001	TCLP	Solid	6010D	405420

### Prep Batch: 406402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194862-1	MCSF-110323-001	TCLP	Solid	7470A	405282
LB 310-405282/1-E	Method Blank	TCLP	Solid	7470A	405282
LCS 310-405282/2-E	Lab Control Sample	TCLP	Solid	7470A	405282
240-194862-1 MS	MCSF-110323-001	TCLP	Solid	7470A	405282

### Analysis Batch: 406628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194862-1	MCSF-110323-001	TCLP	Solid	7470A	406402
LB 310-405282/1-E	Method Blank	TCLP	Solid	7470A	406402
LCS 310-405282/2-E	Lab Control Sample	TCLP	Solid	7470A	406402
240-194862-1 MS	MCSF-110323-001	TCLP	Solid	7470A	406402

## General Chemistry

### Analysis Batch: 405129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194862-1	MCSF-110323-001	Total/NA	Solid	Moisture	

### Analysis Batch: 406141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194862-1	MCSF-110323-001	Total/NA	Solid	D92	

# Lab Chronicle

Client: CJF Associates, LLC  
 Project/Site: Alter Mason City, 1218-01

Job ID: 240-194862-1

**Client Sample ID: MCSF-110323-001**

**Lab Sample ID: 240-194862-1**

**Date Collected: 11/03/23 15:00**

**Matrix: Solid**

**Date Received: 11/06/23 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			405284	FK4Z	EET CF	11/08/23 14:00 - 11/09/23 06:00 <sup>1</sup>
TCLP	Prep	3510C			405358	Y6AF	EET CF	11/09/23 06:06
TCLP	Analysis	8082A		1	406051	BW2O	EET CF	11/15/23 14:56
Total/NA	Analysis	PCB		1	407207	D2YP	EET CF	11/17/23 13:40
TCLP	Leach	1311			405282	FK4Z	EET CF	11/08/23 14:00 - 11/09/23 06:00 <sup>1</sup>
TCLP	Prep	3010A			405420	KCK5	EET CF	11/09/23 09:20
TCLP	Analysis	6010D		3	405718	ZRI4	EET CF	11/12/23 11:44
TCLP	Leach	1311			405282	FK4Z	EET CF	11/08/23 14:00 - 11/09/23 06:00 <sup>1</sup>
TCLP	Prep	7470A			406402	NFT2	EET CF	11/17/23 11:45
TCLP	Analysis	7470A		1	406628	NFT2	EET CF	11/20/23 11:00
Total/NA	Analysis	D92		1	406141	ENB7	EET CF	11/15/23 17:06
Total/NA	Analysis	Moisture		1	405129	DGU1	EET CF	11/07/23 12:57

**Client Sample ID: MCSF-110323-001**

**Lab Sample ID: 240-194862-1**

**Date Collected: 11/03/23 15:00**

**Matrix: Solid**

**Date Received: 11/06/23 09:30**

**Percent Solids: 79.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550B			406343	DZK8	EET CF	11/17/23 08:19
Total/NA	Analysis	8082A		1	406359	BW2O	EET CF	11/17/23 13:22
Total/NA	Prep	3550B			406343	DZK8	EET CF	11/17/23 08:19
Total/NA	Analysis	8082A		50	406359	BW2O	EET CF	11/17/23 13:40

<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 Mason City, 1218-01

Job ID: 240-194862-1

## 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
D92		Solid	Flashpoint
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
PCB		Solid	Total PCBs

Address:

4.3 / 5.5

Chain of Custody Record

717369



Environment Testing America

TAL-0210

Regulatory Program:  DW  NPDES  RCRA  Other:

Company Name: **CSF Associates** Client Contact  
 Address: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 Project Name: **ARCO MC**  
 Site: **Mason City Town**  
 PO # **1218-01**

Project Manager: \_\_\_\_\_  
 Tell/Email: \_\_\_\_\_

Analysis Turnaround Time  
 CALENDAR DAYS  WORKING DAYS  
 TAT if different from Below \_\_\_\_\_  
 2 weeks  1 week  2 days  1 day

Site Contact: \_\_\_\_\_  
 Lab Contact: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Carrier: \_\_\_\_\_

COC No: \_\_\_\_\_ of \_\_\_\_\_ COCs  
 Sampler: **Charles R. King**  
 For Lab Use Only:  
 Walk-in Client:  
 Lab Sampling:  
 Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes:	
								Total PCBs	Ignitability
MCSF-110323-001 ↓ -001 DUP	11-3-23	3:00 PM	C	S	4	X	X	X	HOLD



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

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

**Special Instructions/QC Requirements & Comments:**  
 Sample is ASR Sun Toward needs Toxic certification.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

Custody Seal No.: \_\_\_\_\_  
 Company: **CSF**  
 Date/Time: **11-3-23 4:30 PM**

Relinquished by: **Charles R. King**  
 Received by: **Ken Needham**  
 Company: **ETAC**  
 Date/Time: **11-6-23 9:30**

Relinquished by: \_\_\_\_\_  
 Received in Laboratory by: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_




**Eurofins – Cleveland Sample Receipt Form/Narrative  
Barberton Facility**

Login # : \_\_\_\_\_

Client CJF Associates Site Name \_\_\_\_\_ Cooler unpacked by: Rachelle Hardet  
 Cooler Received on 11-6-23 Opened on 11-6-23  
 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 # 20 (CF H-2 °C) Observed Cooler Temp. 43 °C Corrected Cooler Temp. 5.5 °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1
  - Were the seals on the outside of the cooler(s) signed & dated?  Yes  No
  - Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?  Yes  No
  - Were tamper/custody seals intact and uncompromised?  Yes  No
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# HC316719
14. Were VOAs on the COC?  Yes  No
15. Were air bubbles >6 mm in any VOA vials?  Yes  No  NA  ← Larger than this.
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # \_\_\_\_\_  Yes  No
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: 240-194862-1

**Login Number: 194862**

**List Number: 2**

**Creator: Costello, Mackenzie K**

**List Source: Eurofins Cedar Falls**

**List Creation: 11/07/23 12:22 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	