



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)

June 28, 2022

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 – Davenport, Iowa  
2nd Quarter 2022 - June 2022

---

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

### **Summary**

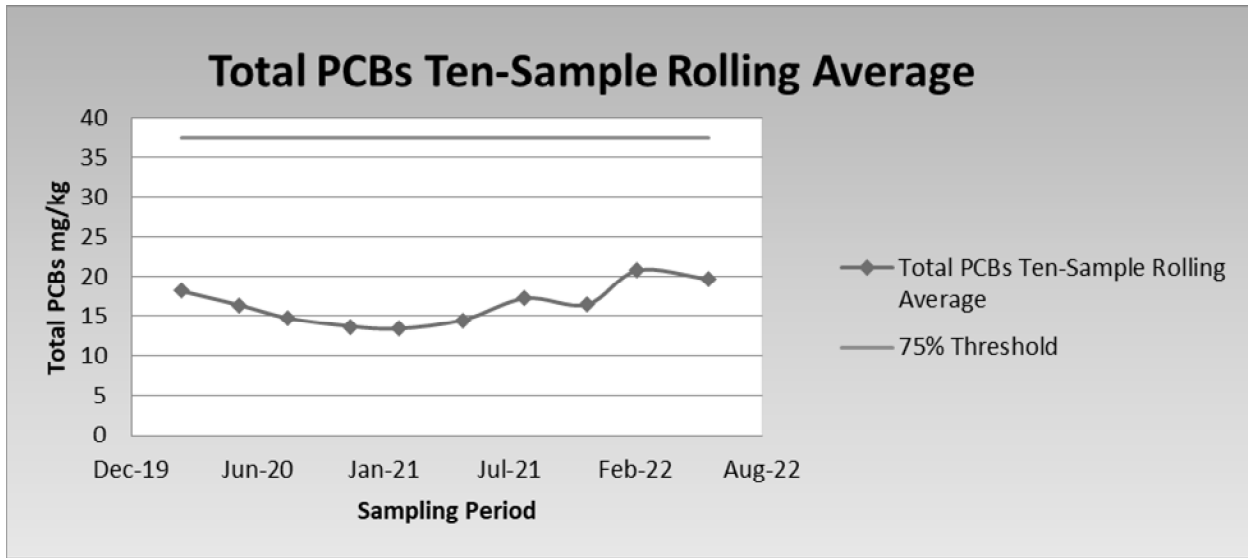
- PCB concentration this quarter: 8.2 mg/kg;
- Ten-Sample Rolling PCB Average: 19.79 mg/kg;
- PCB TCLP result this quarter is non-detect; and
- All TCLP metal results are below regulatory criteria.

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 April 18, 2022 through April 26, 2022 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 PCB results for the sampling period totaled 8.2 mg/kg. TCLP PCBs were not detected above the laboratory reporting limit. Barium and cadmium were the only RCRA metal identified above the laboratory reporting limits but below regulatory TCLP concentrations. Lead was not detected above the reporting limit concentration 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 19.79 mg/kg. Rolling averages of the ten-sampling period results for total PCBs are presented below:



Second quarter analytical results are summarized as follows:

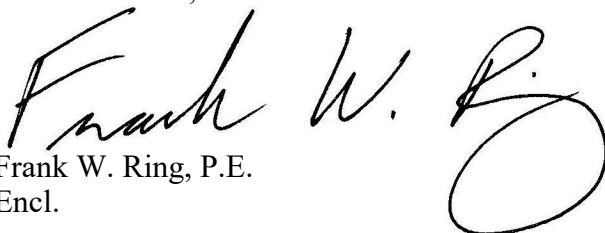
Sample ID	Analyte										Ignitability <sup>2</sup>
	Total PCBs <sup>1</sup>	TCLP PCBs	TCLP Arsenic	TCLP Barium	TCLP Cad	TCLP Chrom	TCLP Lead	TCLP Sel	TCLP Silver	TCLP Mercury	
ZDSF-060322-001	8.2	ND	ND	0.74	0.12	ND	ND	ND	ND	ND	NA

**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: Patrick Kohlmeier, Alter  
 Brian Seals, Waste Commission of Scott County  
 Casey Reitz, Waste Commission of Scott County

**ATTACHMENT A**

**LABORATORY ANALYTICAL RESULTS**



Environment Testing  
America

## ANALYTICAL REPORT

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

Laboratory Job ID: 240-167726-1  
Client Project/Site: 1217, Davenport

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

Attn: Charles Ring

Authorized for release by:  
6/22/2022 3:18:02 PM

Denise Heckler, Project Manager II  
(330)966-9477  
[Denise.Heckler@et.eurofinsus.com](mailto:Denise.Heckler@et.eurofinsus.com)



### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Method Summary . . . . .	5
Sample Summary . . . . .	6
Detection Summary . . . . .	7
Client Sample Results . . . . .	8
Surrogate Summary . . . . .	11
QC Sample Results . . . . .	12
QC Association Summary . . . . .	16
Lab Chronicle . . . . .	18
Certification Summary . . . . .	19
Chain of Custody . . . . .	20
Receipt Checklists . . . . .	22

# Definitions/Glossary

Client: CJF Associates, LLC  
Project/Site: 1217, Davenport

Job ID: 240-167726-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F2	MS/MSD RPD exceeds control limits
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: 1217, Davenport

Job ID: 240-167726-1

---

## Job ID: 240-167726-1

---

### Laboratory: Eurofins Canton

#### Narrative

---

#### Job Narrative 240-167726-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 6/4/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.3° C.

#### GC Semi VOA

Method 8082A: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 310-356726 and analytical batch 310-356700 recovered outside control limits for the following analytes: PCB-1260. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: ZDSF-060322-001 (240-167726-1). Elevated reporting limits (RLs) are provided.

Method 8082A: The continuing calibration verification (CCV) associated with batch 310-356883 recovered above the upper control limit for PCB-1268. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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 sample was tumbled in plastic due to matrix.

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: 1217, Davenport

Job ID: 240-167726-1

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

#### Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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



# Sample Summary

Client: CJF Associates, LLC  
Project/Site: 1217, Davenport

Job ID: 240-167726-1

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-167726-1	ZDSF-060322-001	Solid	06/03/22 13:00	06/04/22 10:30
240-167726-2	ZDSF-060322-001 DUP	Solid	06/03/22 13:00	06/04/22 10:30

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

# Detection Summary

Client: CJF Associates, LLC  
Project/Site: 1217, Davenport

Job ID: 240-167726-1

**Client Sample ID: ZDSF-060322-001**

**Lab Sample ID: 240-167726-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	8.2		1.5	0.16	mg/Kg	10	✳	8082A	Total/NA
Total PCBs	8.2		1.5	0.16	mg/Kg	1		PCB	Total/NA
Barium	0.74	J	1.0	0.22	mg/L	2		6010C	TCLP
Cadmium	0.12		0.040	0.016	mg/L	2		6010C	TCLP

**Client Sample ID: ZDSF-060322-001 DUP**

**Lab Sample ID: 240-167726-2**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Canton



# Client Sample Results

Client: CJF Associates, LLC  
Project/Site: 1217, Davenport

Job ID: 240-167726-1

**Client Sample ID: ZDSF-060322-001**

**Lab Sample ID: 240-167726-1**

Date Collected: 06/03/22 13:00

Matrix: Solid

Date Received: 06/04/22 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F2	4.0	1.3	ug/L		06/17/22 09:39	06/17/22 19:02	1
PCB-1221	ND		4.0	1.3	ug/L		06/17/22 09:39	06/17/22 19:02	1
PCB-1232	ND		4.0	1.3	ug/L		06/17/22 09:39	06/17/22 19:02	1
PCB-1242	ND		4.0	1.3	ug/L		06/17/22 09:39	06/17/22 19:02	1
PCB-1248	ND		4.0	1.1	ug/L		06/17/22 09:39	06/17/22 19:02	1
PCB-1254	ND		4.0	1.1	ug/L		06/17/22 09:39	06/17/22 19:02	1
PCB-1260	ND	*+	4.0	1.1	ug/L		06/17/22 09:39	06/17/22 19:02	1
PCB-1268	ND		4.0	1.1	ug/L		06/17/22 09:39	06/17/22 19:02	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		06/17/22 09:39	06/17/22 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	41		10 - 119				06/17/22 09:39	06/17/22 19:02	1
Tetrachloro-m-xylene	65		14 - 110				06/17/22 09:39	06/17/22 19:02	1

## Method: PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total PCBs</b>	<b>8.2</b>		1.5	0.16	mg/Kg			06/22/22 13:43	1

## Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.40	0.20	mg/L		06/09/22 10:30	06/14/22 11:12	2
<b>Barium</b>	<b>0.74</b>	<b>J</b>	1.0	0.22	mg/L		06/09/22 10:30	06/14/22 11:12	2
<b>Cadmium</b>	<b>0.12</b>		0.040	0.016	mg/L		06/09/22 10:30	06/14/22 11:12	2
Chromium	ND		0.040	0.017	mg/L		06/09/22 10:30	06/14/22 11:12	2
Lead	ND		0.20	0.10	mg/L		06/09/22 10:30	06/14/22 11:12	2
Selenium	ND		0.20	0.13	mg/L		06/09/22 10:30	06/14/22 11:12	2
Silver	ND		0.040	0.019	mg/L		06/09/22 10:30	06/14/22 11:12	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0012	mg/L		06/09/22 15:41	06/10/22 12:47	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Moisture</b>	<b>20.8</b>		0.1	0.1	%			06/07/22 14:19	1
<b>Percent Solids</b>	<b>79.2</b>		0.1	0.1	%			06/07/22 14:19	1

# Client Sample Results

Client: CJF Associates, LLC  
 Project/Site: 1217, Davenport

Job ID: 240-167726-1

**Client Sample ID: ZDSF-060322-001**

**Lab Sample ID: 240-167726-1**

**Date Collected: 06/03/22 13:00**

**Matrix: Solid**

**Date Received: 06/04/22 10:30**

**Percent Solids: 79.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.15	0.0040	mg/Kg	☼	06/17/22 08:48	06/20/22 13:16	1
PCB-1221	ND		0.15	0.041	mg/Kg	☼	06/17/22 08:48	06/20/22 13:16	1
PCB-1232	ND		0.15	0.015	mg/Kg	☼	06/17/22 08:48	06/20/22 13:16	1
<b>PCB-1242</b>	<b>8.2</b>		1.5	0.16	mg/Kg	☼	06/17/22 08:48	06/20/22 15:39	10
PCB-1248	ND		0.15	0.010	mg/Kg	☼	06/17/22 08:48	06/20/22 13:16	1
PCB-1254	ND		0.15	0.0097	mg/Kg	☼	06/17/22 08:48	06/20/22 13:16	1
PCB-1260	ND		0.15	0.0052	mg/Kg	☼	06/17/22 08:48	06/20/22 13:16	1
PCB-1268	ND		0.15	0.0021	mg/Kg	☼	06/17/22 08:48	06/20/22 13:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	38		10 - 136				06/17/22 08:48	06/20/22 13:16	1
DCB Decachlorobiphenyl (Surr)	156	S1+	10 - 136				06/17/22 08:48	06/20/22 15:39	10
Tetrachloro-m-xylene	47		21 - 110				06/17/22 08:48	06/20/22 13:16	1
Tetrachloro-m-xylene	38		21 - 110				06/17/22 08:48	06/20/22 15:39	10

# Client Sample Results

Client: CJF Associates, LLC  
Project/Site: 1217, Davenport

Job ID: 240-167726-1

**Client Sample ID: ZDSF-060322-001 DUP**

**Lab Sample ID: 240-167726-2**

Date Collected: 06/03/22 13:00

Matrix: Solid

Date Received: 06/04/22 10:30

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.4		0.1	0.1	%			06/07/22 14:19	1
Percent Solids	84.6		0.1	0.1	%			06/07/22 14:19	1

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

# Surrogate Summary

Client: CJF Associates, LLC  
Project/Site: 1217, Davenport

Job ID: 240-167726-1

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

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (10-136)	TCX1 (21-110)
240-167726-1	ZDSF-060322-001	38	47
240-167726-1	ZDSF-060322-001	156 S1+	38
LCS 310-356710/2-A	Lab Control Sample	76	89
LCS 310-356710/3-A	Lab Control Sample Dup	80	78
MB 310-356710/1-A	Method Blank	94	93

#### 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 (10-119)	TCX2 (14-110)
LCS 310-356726/2-A	Lab Control Sample	89	94

#### 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 (10-119)	TCX2 (14-110)
240-167726-1	ZDSF-060322-001	41	65
240-167726-1 MS	ZDSF-060322-001	39	63
240-167726-1 MSD	ZDSF-060322-001	36	60
LB 310-355787/1-D	Method Blank	82	74

#### Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

# QC Sample Results

Client: CJF Associates, LLC  
Project/Site: 1217, Davenport

Job ID: 240-167726-1

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

**Lab Sample ID: MB 310-356710/1-A**  
**Matrix: Solid**  
**Analysis Batch: 356883**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 356710**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.024	0.00063	mg/Kg		06/17/22 08:48	06/20/22 12:01	1
PCB-1221	ND		0.024	0.0065	mg/Kg		06/17/22 08:48	06/20/22 12:01	1
PCB-1232	ND		0.024	0.0024	mg/Kg		06/17/22 08:48	06/20/22 12:01	1
PCB-1242	ND		0.024	0.0026	mg/Kg		06/17/22 08:48	06/20/22 12:01	1
PCB-1248	ND		0.024	0.0016	mg/Kg		06/17/22 08:48	06/20/22 12:01	1
PCB-1254	ND		0.024	0.0015	mg/Kg		06/17/22 08:48	06/20/22 12:01	1
PCB-1260	ND		0.024	0.00082	mg/Kg		06/17/22 08:48	06/20/22 12:01	1
PCB-1268	ND		0.024	0.00034	mg/Kg		06/17/22 08:48	06/20/22 12:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	94		10 - 136	06/17/22 08:48	06/20/22 12:01	1
Tetrachloro-m-xylene	93		21 - 110	06/17/22 08:48	06/20/22 12:01	1

**Lab Sample ID: LCS 310-356710/2-A**  
**Matrix: Solid**  
**Analysis Batch: 356883**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 356710**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.199	0.180		mg/Kg		90	33 - 113
PCB-1260	0.199	0.202		mg/Kg		101	30 - 111

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	76		10 - 136
Tetrachloro-m-xylene	89		21 - 110

**Lab Sample ID: LCSD 310-356710/3-A**  
**Matrix: Solid**  
**Analysis Batch: 356883**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 356710**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	0.195	0.164		mg/Kg		84	33 - 113	9	34
PCB-1260	0.195	0.204		mg/Kg		105	30 - 111	1	29

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	80		10 - 136
Tetrachloro-m-xylene	78		21 - 110

**Lab Sample ID: LCS 310-356726/2-A**  
**Matrix: Solid**  
**Analysis Batch: 356700**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 356726**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	12.5	13.4		ug/L		107	21 - 119
PCB-1260	12.5	17.2	*+	ug/L		137	18 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	89		10 - 119

Eurofins Canton

# QC Sample Results

Client: CJF Associates, LLC  
Project/Site: 1217, Davenport

Job ID: 240-167726-1

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

**Lab Sample ID: LCS 310-356726/2-A**  
**Matrix: Solid**  
**Analysis Batch: 356700**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 356726**

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	94		14 - 110

**Lab Sample ID: LB 310-355787/1-D**  
**Matrix: Solid**  
**Analysis Batch: 356700**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 356726**

Analyte	LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		4.0	1.3	ug/L		06/17/22 09:39	06/17/22 18:12	1
PCB-1221	ND		4.0	1.3	ug/L		06/17/22 09:39	06/17/22 18:12	1
PCB-1232	ND		4.0	1.3	ug/L		06/17/22 09:39	06/17/22 18:12	1
PCB-1242	ND		4.0	1.3	ug/L		06/17/22 09:39	06/17/22 18:12	1
PCB-1248	ND		4.0	1.1	ug/L		06/17/22 09:39	06/17/22 18:12	1
PCB-1254	ND		4.0	1.1	ug/L		06/17/22 09:39	06/17/22 18:12	1
PCB-1260	ND		4.0	1.1	ug/L		06/17/22 09:39	06/17/22 18:12	1
PCB-1268	ND		4.0	1.1	ug/L		06/17/22 09:39	06/17/22 18:12	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		06/17/22 09:39	06/17/22 18:12	1

Surrogate	LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	82		10 - 119	06/17/22 09:39	06/17/22 18:12	1
Tetrachloro-m-xylene	74		14 - 110	06/17/22 09:39	06/17/22 18:12	1

**Lab Sample ID: 240-167726-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 356700**

**Client Sample ID: ZDSF-060322-001**  
**Prep Type: TCLP**  
**Prep Batch: 356726**

Analyte	Sample		Spike Added	MS		Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
PCB-1016	ND	F2	12.5	11.3		ug/L		90	21 - 119
PCB-1260	ND	*+	12.5	10.7		ug/L		86	18 - 122

Surrogate	MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	39		10 - 119
Tetrachloro-m-xylene	63		14 - 110

**Lab Sample ID: 240-167726-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 356700**

**Client Sample ID: ZDSF-060322-001**  
**Prep Type: TCLP**  
**Prep Batch: 356726**

Analyte	Sample		Spike Added	MSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
	Result	Qualifier		Result	Qualifier						
PCB-1016	ND	F2	12.5	12.0	F2	ug/L		96	21 - 119	41	35
PCB-1260	ND	*+	12.5	11.2		ug/L		89	18 - 122	14	30

Surrogate	MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	36		10 - 119
Tetrachloro-m-xylene	60		14 - 110



# QC Sample Results

Client: CJF Associates, LLC  
Project/Site: 1217, Davenport

Job ID: 240-167726-1

## Method: 6010C - Metals (ICP)

**Lab Sample ID: LB 310-355784/1-B**  
**Matrix: Solid**  
**Analysis Batch: 356420**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 355824**

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.20	0.10	mg/L		06/09/22 10:30	06/14/22 09:47	1
Barium	ND		0.50	0.11	mg/L		06/09/22 10:30	06/14/22 09:47	1
Cadmium	ND		0.020	0.0078	mg/L		06/09/22 10:30	06/14/22 09:47	1
Chromium	ND		0.020	0.0087	mg/L		06/09/22 10:30	06/14/22 09:47	1
Lead	ND		0.10	0.050	mg/L		06/09/22 10:30	06/14/22 09:47	1
Selenium	ND		0.10	0.067	mg/L		06/09/22 10:30	06/14/22 09:47	1
Silver	ND		0.020	0.0094	mg/L		06/09/22 10:30	06/14/22 09:47	1

**Lab Sample ID: LCS 310-355784/2-B**  
**Matrix: Solid**  
**Analysis Batch: 356420**

**Client Sample ID: Lab Control Sample**  
**Prep Type: TCLP**  
**Prep Batch: 355824**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Arsenic	4.00	4.21		mg/L		105	80 - 120
Barium	2.00	1.97		mg/L		99	80 - 120
Cadmium	2.00	1.99		mg/L		100	80 - 120
Chromium	2.00	1.98		mg/L		99	80 - 120
Lead	4.00	3.89		mg/L		97	80 - 120
Selenium	8.00	8.49		mg/L		106	80 - 120
Silver	2.00	2.11		mg/L		106	80 - 120

**Lab Sample ID: 240-167726-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 356420**

**Client Sample ID: ZDSF-060322-001**  
**Prep Type: TCLP**  
**Prep Batch: 355824**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Arsenic	ND		4.00	4.03		mg/L		101	75 - 125
Barium	0.74	J	2.00	2.59		mg/L		93	75 - 125
Cadmium	0.12		2.00	1.99		mg/L		93	75 - 125
Chromium	ND		2.00	1.88		mg/L		94	75 - 125
Lead	ND		4.00	3.71		mg/L		93	75 - 125
Selenium	ND		8.00	7.99		mg/L		100	75 - 125
Silver	ND		2.00	1.86		mg/L		93	75 - 125

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: LB 310-355784/1-C**  
**Matrix: Solid**  
**Analysis Batch: 356005**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 355888**

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.0020	0.0012	mg/L		06/09/22 15:41	06/10/22 12:43	1

**Lab Sample ID: LCS 310-355784/2-C**  
**Matrix: Solid**  
**Analysis Batch: 356005**

**Client Sample ID: Lab Control Sample**  
**Prep Type: TCLP**  
**Prep Batch: 355888**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Mercury	0.0167	0.0145		mg/L		87	80 - 120

Eurofins Canton

# QC Sample Results

Client: CJF Associates, LLC  
Project/Site: 1217, Davenport

Job ID: 240-167726-1

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

Lab Sample ID: 240-167726-1 MS

Matrix: Solid

Analysis Batch: 356005

Client Sample ID: ZDSF-060322-001

Prep Type: TCLP

Prep Batch: 355888

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.0167	0.0160		mg/L		96	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: 1217, Davenport

Job ID: 240-167726-1

## GC Semi VOA

### Leach Batch: 355787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-167726-1	ZDSF-060322-001	TCLP	Solid	1311	
LB 310-355787/1-D	Method Blank	TCLP	Solid	1311	
240-167726-1 MS	ZDSF-060322-001	TCLP	Solid	1311	
240-167726-1 MSD	ZDSF-060322-001	TCLP	Solid	1311	

### Analysis Batch: 356700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-167726-1	ZDSF-060322-001	TCLP	Solid	8082A	356726
LB 310-355787/1-D	Method Blank	TCLP	Solid	8082A	356726
LCS 310-356726/2-A	Lab Control Sample	Total/NA	Solid	8082A	356726
240-167726-1 MS	ZDSF-060322-001	TCLP	Solid	8082A	356726
240-167726-1 MSD	ZDSF-060322-001	TCLP	Solid	8082A	356726

### Prep Batch: 356710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-167726-1	ZDSF-060322-001	Total/NA	Solid	3550B	
MB 310-356710/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-356710/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 310-356710/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	

### Prep Batch: 356726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-167726-1	ZDSF-060322-001	TCLP	Solid	3510C	355787
LB 310-355787/1-D	Method Blank	TCLP	Solid	3510C	355787
LCS 310-356726/2-A	Lab Control Sample	Total/NA	Solid	3510C	
240-167726-1 MS	ZDSF-060322-001	TCLP	Solid	3510C	355787
240-167726-1 MSD	ZDSF-060322-001	TCLP	Solid	3510C	355787

### Analysis Batch: 356883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-167726-1	ZDSF-060322-001	Total/NA	Solid	8082A	356710
240-167726-1	ZDSF-060322-001	Total/NA	Solid	8082A	356710
MB 310-356710/1-A	Method Blank	Total/NA	Solid	8082A	356710
LCS 310-356710/2-A	Lab Control Sample	Total/NA	Solid	8082A	356710
LCSD 310-356710/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	356710

### Analysis Batch: 357206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-167726-1	ZDSF-060322-001	Total/NA	Solid	PCB	

## Metals

### Leach Batch: 355784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-167726-1	ZDSF-060322-001	TCLP	Solid	1311	
LB 310-355784/1-B	Method Blank	TCLP	Solid	1311	
LB 310-355784/1-C	Method Blank	TCLP	Solid	1311	
LCS 310-355784/2-B	Lab Control Sample	TCLP	Solid	1311	
LCS 310-355784/2-C	Lab Control Sample	TCLP	Solid	1311	
240-167726-1 MS	ZDSF-060322-001	TCLP	Solid	1311	

Eurofins Canton

# QC Association Summary

Client: CJF Associates, LLC  
Project/Site: 1217, Davenport

Job ID: 240-167726-1

## Metals

### Prep Batch: 355824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-167726-1	ZDSF-060322-001	TCLP	Solid	3010A	355784
LB 310-355784/1-B	Method Blank	TCLP	Solid	3010A	355784
LCS 310-355784/2-B	Lab Control Sample	TCLP	Solid	3010A	355784
240-167726-1 MS	ZDSF-060322-001	TCLP	Solid	3010A	355784

### Prep Batch: 355888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-167726-1	ZDSF-060322-001	TCLP	Solid	7470A	355784
LB 310-355784/1-C	Method Blank	TCLP	Solid	7470A	355784
LCS 310-355784/2-C	Lab Control Sample	TCLP	Solid	7470A	355784
240-167726-1 MS	ZDSF-060322-001	TCLP	Solid	7470A	355784

### Analysis Batch: 356005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-167726-1	ZDSF-060322-001	TCLP	Solid	7470A	355888
LB 310-355784/1-C	Method Blank	TCLP	Solid	7470A	355888
LCS 310-355784/2-C	Lab Control Sample	TCLP	Solid	7470A	355888
240-167726-1 MS	ZDSF-060322-001	TCLP	Solid	7470A	355888

### Analysis Batch: 356420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-167726-1	ZDSF-060322-001	TCLP	Solid	6010C	355824
LB 310-355784/1-B	Method Blank	TCLP	Solid	6010C	355824
LCS 310-355784/2-B	Lab Control Sample	TCLP	Solid	6010C	355824
240-167726-1 MS	ZDSF-060322-001	TCLP	Solid	6010C	355824

## General Chemistry

### Analysis Batch: 355549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-167726-1	ZDSF-060322-001	Total/NA	Solid	Moisture	
240-167726-2	ZDSF-060322-001 DUP	Total/NA	Solid	Moisture	

# Lab Chronicle

Client: CJF Associates, LLC  
 Project/Site: 1217, Davenport

Job ID: 240-167726-1

**Client Sample ID: ZDSF-060322-001**

**Lab Sample ID: 240-167726-1**

**Date Collected: 06/03/22 13:00**

**Matrix: Solid**

**Date Received: 06/04/22 10:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			355787	06/08/22 16:30	AEE6	TAL CF
TCLP	Prep	3510C			356726	06/17/22 09:39	C3AA	TAL CF
TCLP	Analysis	8082A		1	356700	06/17/22 19:02	BW2O	TAL CF
Total/NA	Analysis	PCB		1	357206	06/22/22 13:43	BW2O	TAL CF
TCLP	Leach	1311			355784	06/08/22 16:30	AEE6	TAL CF
TCLP	Prep	3010A			355824	06/09/22 10:30	QTZ5	TAL CF
TCLP	Analysis	6010C		2	356420	06/14/22 11:12	ZRI4	TAL CF
TCLP	Leach	1311			355784	06/08/22 16:30	AEE6	TAL CF
TCLP	Prep	7470A			355888	06/09/22 15:41	XXW3	TAL CF
TCLP	Analysis	7470A		1	356005	06/10/22 12:47	XXW3	TAL CF
Total/NA	Analysis	Moisture		1	355549	06/07/22 14:19	NK4V	TAL CF

**Client Sample ID: ZDSF-060322-001**

**Lab Sample ID: 240-167726-1**

**Date Collected: 06/03/22 13:00**

**Matrix: Solid**

**Date Received: 06/04/22 10:30**

**Percent Solids: 79.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			356710	06/17/22 08:48	GW4G	TAL CF
Total/NA	Analysis	8082A		1	356883	06/20/22 13:16	BW2O	TAL CF
Total/NA	Prep	3550B			356710	06/17/22 08:48	GW4G	TAL CF
Total/NA	Analysis	8082A		10	356883	06/20/22 15:39	BW2O	TAL CF

**Client Sample ID: ZDSF-060322-001 DUP**

**Lab Sample ID: 240-167726-2**

**Date Collected: 06/03/22 13:00**

**Matrix: Solid**

**Date Received: 06/04/22 10:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	355549	06/07/22 14:19	NK4V	TAL CF

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: CJF Associates, LLC  
Project/Site: 1217, Davenport

Job ID: 240-167726-1

## Laboratory: Eurofins Cedar Falls

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

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

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

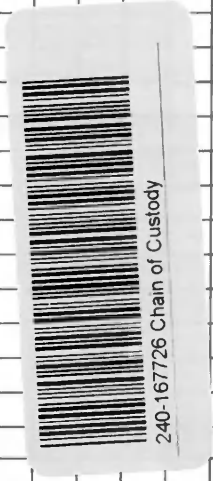
\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Address:

TAL-9210

Regulatory Program:  DW  NPDES  RCRA  Other:

<b>Client Contact</b> Company Name: <u>C3F Associates</u> Address: <u>22324 Harper Ave</u> City/State/Zip: <u>St Clair Shores, MI 48080</u> Phone: <u>248-227-5171</u> Fax: Project Name: <u>AHCO 2D</u> Site: <u>Davenport, Iowa</u> PO #: <u>12.17-01</u>		<b>Project Manager:</b> Tel/Email: Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<b>Site Contact:</b> Lab Contact: Perform MS/MSD (Y/N) Filtered Sample (Y/N)		<b>Date:</b> Carrier: COC No: <u>1</u> of <u>1</u> COCs Sampler: <u>Charles King</u> For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.: Sample Specific Notes: <u>Hold</u>									
Sample Identification <u>ZDSP - 060322-001</u> <u>↓ -001 DUP</u> <u>↓</u>		Sample Date <u>6-3-22</u> <u>↓</u>		Sample Time <u>1:00PM</u> <u>↓</u>		Sample Type (C=Comp, G=Grab) <u>C</u> <u>↓</u>		Matrix <u>0</u> <u>↓</u>		# of Cont. <u>3</u> <u>↓</u>					
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. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown															
Special Instructions/QC Requirements & Comments: <u>Sample is ASK from Iowa. Needs Iowa certified lab.</u>															
Custy Seal No.: Relinquished by: <u>Phil King</u> Relinquished by:				Custody Seal No.: Company: <u>C3F</u> Company:				Cooler Temp. (°C): Obs'd: Received by: <u>Young Day</u> Received by:				Therm ID No.: Date/Time: <u>6-4-22 1030</u> Date/Time:			
Relinquished by:				Company:				Received in Laboratory by:				Date/Time:			



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

**Eurofins - Canton Sample Receipt Form/Narrative** Login # : \_\_\_\_\_  
**Barberton Facility**

Client CSE Site Name \_\_\_\_\_ Cooler unpacked by Nancy Boyer  
 Cooler Received on 6-4-22 Opened on 6-4-22  
 FedEx: 1<sup>st</sup> Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other \_\_\_\_\_

Receipt After-hours/Drop-off Date/Time \_\_\_\_\_ Storage Location \_\_\_\_\_

Eurofins Cooler # 1A Foam Box Client Cooler Box Other \_\_\_\_\_  
 Packing material used: Bubble Wrap Foam Plastic Bag None Other \_\_\_\_\_  
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt  See Multiple Cooler Form  
 IR GUN# IR-13 (CF 0.0 °C) Observed Cooler Temp. 5.3 °C Corrected Cooler Temp. 5.3 °C  
 IR GUN #IR-15 (CF -0.7°C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity \_\_\_\_\_ Yes No  
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA  
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA  
 -Were tamper/custody seals intact and uncompromised? Yes No NA

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

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC178690  
 14. Were VOAs on the COC? Yes No NA  
 15. Were air bubbles >6 mm in any VOA vials? ● ← Larger than this. Yes No NA  
 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # \_\_\_\_\_ Yes No NA  
 17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other \_\_\_\_\_  
 Concerning \_\_\_\_\_

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

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: 240-167726-1

**Login Number: 167726**

**List Number: 2**

**Creator: Homolar, Dana J**

**List Source: Eurofins Cedar Falls**

**List Creation: 06/07/22 11:20 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	

