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December 22, 2021

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

Dear Ms. Jolly:

Re: Fluff Quarterly Sampling Results
Alter Metal Recycling – Davenport, Iowa
4th Quarter 2021 - December 2021

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: 4.1 mg/kg;
- Ten-Sample Rolling PCB Average: 16.5 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.

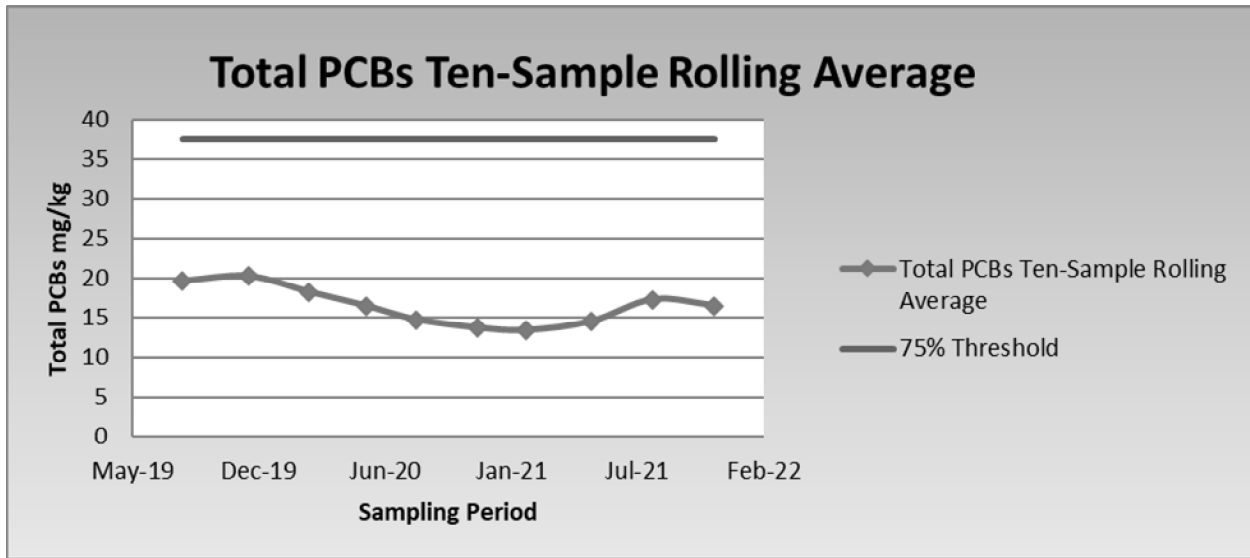
Details

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 18, 2021 through October 28, 2021 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 4.1 mg/kg. TCLP PCBs were not detected above the laboratory reporting limit. Barium, cadmium, and lead were the only RCRA metal identified above the laboratory reporting limits but below regulatory TCLP concentrations. The detected concentration for lead at 0.072 mg/L does not exceed the regulatory TCLP concentration of 5.0 mg/L. The present ten-sample rolling average for PCBs is 16.5 mg/kg. Rolling averages of the ten-sampling period results for total PCBs are presented below:



December 22, 2021



Fourth quarter analytical results are summarized as follows:

Sample ID	Analyte										Ignitability ²
	Total PCBs ¹	TCLP PCBs	TCLP Arsenic	TCLP Barium	TCLP Cad	TCLP Chrom	TCLP Lead	TCLP Sel	TCLP Silver	TCLP Mercury	
ZDSF-112221-001	4.1	ND	ND	0.88	0.089	ND	0.072	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

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-220517-1
Client Project/Site: Davenport, 1217-01

For:

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

Attn: Charles Ring



*Authorized for release by:
12/16/2021 9:35:08 AM*

Denise Heckler, Project Manager II
(330)966-9477
Denise.Heckler@Eurofinset.com

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

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

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Sample Summary	4
Detection Summary	5
Client Sample Results	6
Definitions	8
Surrogate Summary	9
QC Sample Results	10
QC Association	13
Chronicle	15
Certification Summary	16
Method Summary	17
Chain of Custody	18
Receipt Checklists	20



Case Narrative

Client: CJF Associates, LLC
Project/Site: Davenport, 1217-01

Job ID: 310-220517-1

Job ID: 310-220517-1

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

Job Narrative 310-220517-1

Comments

No additional comments.

Receipt

The samples were received on 11/24/2021 2:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

GC Semi VOA

Method 8082A: The following sample was diluted due to the nature of the sample matrix: ZDSF-112221-001 (310-220517-1). 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: ZDSF-112221-001 (310-220517-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: CJF Associates, LLC
Project/Site: Davenport, 1217-01

Job ID: 310-220517-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-220517-1	ZDSF-112221-001	Solid	11/22/21 11:00	11/24/21 14:30

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Detection Summary

Client: CJF Associates, LLC
Project/Site: Davenport, 1217-01

Job ID: 310-220517-1

Client Sample ID: ZDSF-112221-001

Lab Sample ID: 310-220517-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	4.1		1.3	0.14	mg/Kg	10	✳	8082A	Total/NA
Total PCBs	4.1		1.3	0.14	mg/Kg	1		PCB	Total/NA
Barium	0.88		0.50	0.11	mg/L	1		6010C	TCLP
Cadmium	0.089		0.020	0.0044	mg/L	1		6010C	TCLP
Lead	0.072	J	0.10	0.032	mg/L	1		6010C	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Client Sample Results

Client: CJF Associates, LLC
Project/Site: Davenport, 1217-01

Job ID: 310-220517-1

Client Sample ID: ZDSF-112221-001

Lab Sample ID: 310-220517-1

Date Collected: 11/22/21 11:00

Matrix: Solid

Date Received: 11/24/21 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<1.3		4.0	1.3	ug/L		12/02/21 13:26	12/03/21 20:49	1
PCB-1221	<1.3		4.0	1.3	ug/L		12/02/21 13:26	12/03/21 20:49	1
PCB-1232	<1.3		4.0	1.3	ug/L		12/02/21 13:26	12/03/21 20:49	1
PCB-1242	<1.3		4.0	1.3	ug/L		12/02/21 13:26	12/03/21 20:49	1
PCB-1248	<1.1		4.0	1.1	ug/L		12/02/21 13:26	12/03/21 20:49	1
PCB-1254	<1.1		4.0	1.1	ug/L		12/02/21 13:26	12/03/21 20:49	1
PCB-1260	<1.1		4.0	1.1	ug/L		12/02/21 13:26	12/03/21 20:49	1
PCB-1268	<1.1		4.0	1.1	ug/L		12/02/21 13:26	12/03/21 20:49	1
Polychlorinated biphenyls, Total	<1.3		4.0	1.3	ug/L		12/02/21 13:26	12/03/21 20:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	85		10 - 119				12/02/21 13:26	12/03/21 20:49	1
Tetrachloro-m-xylene	62		14 - 110				12/02/21 13:26	12/03/21 20:49	1

Method: PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PCBs	4.1		1.3	0.14	mg/Kg			12/16/21 08:29	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.10	0.050	mg/L		12/02/21 11:00	12/07/21 20:53	1
Barium	0.88		0.50	0.11	mg/L		12/02/21 11:00	12/07/21 20:53	1
Cadmium	0.089		0.020	0.0044	mg/L		12/02/21 11:00	12/07/21 20:53	1
Chromium	<0.0087		0.020	0.0087	mg/L		12/02/21 11:00	12/07/21 20:53	1
Lead	0.072 J		0.10	0.032	mg/L		12/02/21 11:00	12/07/21 20:53	1
Selenium	<0.063		0.10	0.063	mg/L		12/02/21 11:00	12/07/21 20:53	1
Silver	<0.0087		0.020	0.0087	mg/L		12/02/21 11:00	12/07/21 20:53	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0015		0.0020	0.0015	mg/L		12/02/21 14:12	12/03/21 15:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.1	0.1	%			11/26/21 14:56	1
Percent Solids	90.2		0.1	0.1	%			11/26/21 14:56	1

Client Sample Results

Client: CJF Associates, LLC
 Project/Site: Davenport, 1217-01

Job ID: 310-220517-1

Client Sample ID: ZDSF-112221-001

Lab Sample ID: 310-220517-1

Date Collected: 11/22/21 11:00

Matrix: Solid

Date Received: 11/24/21 14:30

Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0035		0.13	0.0035	mg/Kg	☼	12/02/21 10:18	12/06/21 18:26	1
PCB-1221	<0.036		0.13	0.036	mg/Kg	☼	12/02/21 10:18	12/06/21 18:26	1
PCB-1232	<0.013		0.13	0.013	mg/Kg	☼	12/02/21 10:18	12/06/21 18:26	1
PCB-1242	4.1		1.3	0.14	mg/Kg	☼	12/02/21 10:18	12/09/21 10:22	10
PCB-1248	<0.0090		0.13	0.0090	mg/Kg	☼	12/02/21 10:18	12/06/21 18:26	1
PCB-1254	<0.0085		0.13	0.0085	mg/Kg	☼	12/02/21 10:18	12/06/21 18:26	1
PCB-1260	<0.0045		0.13	0.0045	mg/Kg	☼	12/02/21 10:18	12/06/21 18:26	1
PCB-1268	<0.0019		0.13	0.0019	mg/Kg	☼	12/02/21 10:18	12/06/21 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl (Surr)</i>	109		10 - 136				12/02/21 10:18	12/06/21 18:26	1
<i>Tetrachloro-m-xylene</i>	60		21 - 110				12/02/21 10:18	12/06/21 18:26	1

Definitions/Glossary

Client: CJF Associates, LLC
Project/Site: Davenport, 1217-01

Job ID: 310-220517-1

Qualifiers

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.
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

Surrogate Summary

Client: CJF Associates, LLC
Project/Site: Davenport, 1217-01

Job ID: 310-220517-1

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)
310-220517-1	ZDSF-112221-001	109	60
LCS 310-337337/2-A	Lab Control Sample	93	78
LCSD 310-337337/3-A	Lab Control Sample Dup	84	72
MB 310-337337/1-A	Method Blank	96	73

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 (10-119)	TCX1 (14-110)
LCS 310-337354/2-A	Lab Control Sample	86	69

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

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

Matrix: Solid

Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (10-119)	TCX1 (14-110)
310-220517-1	ZDSF-112221-001	85	62
310-220517-1 MS	ZDSF-112221-001	62	48
310-220517-1 MSD	ZDSF-112221-001	95	69
LB 310-337282/1-B	Method Blank	87	74

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: CJF Associates, LLC
Project/Site: Davenport, 1217-01

Job ID: 310-220517-1

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

Lab Sample ID: MB 310-337337/1-A
Matrix: Solid
Analysis Batch: 337980

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 337337

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.00064		0.025	0.00064	mg/Kg		12/02/21 10:18	12/08/21 10:46	1
PCB-1221	<0.0066		0.025	0.0066	mg/Kg		12/02/21 10:18	12/08/21 10:46	1
PCB-1232	<0.0025		0.025	0.0025	mg/Kg		12/02/21 10:18	12/08/21 10:46	1
PCB-1242	<0.0027		0.025	0.0027	mg/Kg		12/02/21 10:18	12/08/21 10:46	1
PCB-1248	<0.0017		0.025	0.0017	mg/Kg		12/02/21 10:18	12/08/21 10:46	1
PCB-1254	<0.0016		0.025	0.0016	mg/Kg		12/02/21 10:18	12/08/21 10:46	1
PCB-1260	<0.00084		0.025	0.00084	mg/Kg		12/02/21 10:18	12/08/21 10:46	1
PCB-1268	<0.00035		0.025	0.00035	mg/Kg		12/02/21 10:18	12/08/21 10:46	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	96		10 - 136	12/02/21 10:18	12/08/21 10:46	1
Tetrachloro-m-xylene	73		21 - 110	12/02/21 10:18	12/08/21 10:46	1

Lab Sample ID: LCS 310-337337/2-A
Matrix: Solid
Analysis Batch: 337980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 337337

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
PCB-1016	0.193	0.161		mg/Kg		84	33 - 113
PCB-1260	0.193	0.171		mg/Kg		89	30 - 111

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	93		10 - 136
Tetrachloro-m-xylene	78		21 - 110

Lab Sample ID: LCSD 310-337337/3-A
Matrix: Solid
Analysis Batch: 337980

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 337337

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	Limits	RPD	
		Result	Qualifier					RPD	Limit
PCB-1016	0.198	0.155		mg/Kg		78	33 - 113	4	34
PCB-1260	0.198	0.165		mg/Kg		83	30 - 111	4	29

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	84		10 - 136
Tetrachloro-m-xylene	72		21 - 110

Lab Sample ID: LCS 310-337354/2-A
Matrix: Solid
Analysis Batch: 337552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 337354

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
PCB-1016	6.25	5.50		ug/L		88	21 - 119
PCB-1260	6.25	5.75		ug/L		92	18 - 122

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	86		10 - 119

Eurofins TestAmerica, Cedar Falls

QC Sample Results

Client: CJF Associates, LLC
Project/Site: Davenport, 1217-01

Job ID: 310-220517-1

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

Lab Sample ID: LCS 310-337354/2-A
Matrix: Solid
Analysis Batch: 337552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 337354

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	69		14 - 110

Lab Sample ID: LB 310-337282/1-B
Matrix: Solid
Analysis Batch: 337552

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 337354

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<1.3		4.0	1.3	ug/L		12/02/21 13:26	12/03/21 19:34	1
PCB-1221	<1.3		4.0	1.3	ug/L		12/02/21 13:26	12/03/21 19:34	1
PCB-1232	<1.3		4.0	1.3	ug/L		12/02/21 13:26	12/03/21 19:34	1
PCB-1242	<1.3		4.0	1.3	ug/L		12/02/21 13:26	12/03/21 19:34	1
PCB-1248	<1.1		4.0	1.1	ug/L		12/02/21 13:26	12/03/21 19:34	1
PCB-1254	<1.1		4.0	1.1	ug/L		12/02/21 13:26	12/03/21 19:34	1
PCB-1260	<1.1		4.0	1.1	ug/L		12/02/21 13:26	12/03/21 19:34	1
PCB-1268	<1.1		4.0	1.1	ug/L		12/02/21 13:26	12/03/21 19:34	1
Polychlorinated biphenyls, Total	<1.3		4.0	1.3	ug/L		12/02/21 13:26	12/03/21 19:34	1

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	87		10 - 119	12/02/21 13:26	12/03/21 19:34	1
Tetrachloro-m-xylene	74		14 - 110	12/02/21 13:26	12/03/21 19:34	1

Lab Sample ID: 310-220517-1 MS
Matrix: Solid
Analysis Batch: 337552

Client Sample ID: ZDSF-112221-001
Prep Type: TCLP
Prep Batch: 337354

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
PCB-1016	<1.3		6.25	5.03		ug/L		80	21 - 119
PCB-1260	<1.1		6.25	5.39		ug/L		86	18 - 122

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	62		10 - 119
Tetrachloro-m-xylene	48		14 - 110

Lab Sample ID: 310-220517-1 MSD
Matrix: Solid
Analysis Batch: 337552

Client Sample ID: ZDSF-112221-001
Prep Type: TCLP
Prep Batch: 337354

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
				Result	Qualifier						
PCB-1016	<1.3		6.25	6.37		ug/L		102	21 - 119	24	35
PCB-1260	<1.1		6.25	7.15		ug/L		114	18 - 122	28	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	95		10 - 119
Tetrachloro-m-xylene	69		14 - 110

QC Sample Results

Client: CJF Associates, LLC
 Project/Site: Davenport, 1217-01

Job ID: 310-220517-1

Method: 6010C - Metals (ICP)

Lab Sample ID: LB 310-337279/1-B
Matrix: Solid
Analysis Batch: 337987

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 337334

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.050		0.10	0.050	mg/L		12/02/21 11:00	12/07/21 18:51	1
Barium	<0.11		0.50	0.11	mg/L		12/02/21 11:00	12/07/21 18:51	1
Cadmium	<0.0044		0.020	0.0044	mg/L		12/02/21 11:00	12/07/21 18:51	1
Chromium	<0.0087		0.020	0.0087	mg/L		12/02/21 11:00	12/07/21 18:51	1
Lead	<0.032		0.10	0.032	mg/L		12/02/21 11:00	12/07/21 18:51	1
Selenium	<0.063		0.10	0.063	mg/L		12/02/21 11:00	12/07/21 18:51	1
Silver	<0.0087		0.020	0.0087	mg/L		12/02/21 11:00	12/07/21 18:51	1

Lab Sample ID: LCS 310-337279/2-B
Matrix: Solid
Analysis Batch: 337987

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 337334

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2.00	2.01		mg/L		100	80 - 120
Cadmium	2.00	1.82		mg/L		91	80 - 120
Chromium	2.00	1.85		mg/L		92	80 - 120
Lead	4.00	3.63		mg/L		91	80 - 120
Selenium	8.00	8.32		mg/L		104	80 - 120
Silver	2.00	2.23		mg/L		112	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 310-337279/1-D
Matrix: Solid
Analysis Batch: 337581

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 337375

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.0015		0.0020	0.0015	mg/L		12/02/21 14:12	12/03/21 14:41	1

Lab Sample ID: LCS 310-337279/2-D
Matrix: Solid
Analysis Batch: 337581

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 337375

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

QC Association Summary

Client: CJF Associates, LLC
Project/Site: Davenport, 1217-01

Job ID: 310-220517-1

GC Semi VOA

Leach Batch: 337282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-220517-1	ZDSF-112221-001	TCLP	Solid	1311	
LB 310-337282/1-B	Method Blank	TCLP	Solid	1311	
310-220517-1 MS	ZDSF-112221-001	TCLP	Solid	1311	
310-220517-1 MSD	ZDSF-112221-001	TCLP	Solid	1311	

Prep Batch: 337337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-220517-1	ZDSF-112221-001	Total/NA	Solid	3550B	
MB 310-337337/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-337337/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 310-337337/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	

Prep Batch: 337354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-220517-1	ZDSF-112221-001	TCLP	Solid	3510C	337282
LB 310-337282/1-B	Method Blank	TCLP	Solid	3510C	337282
LCS 310-337354/2-A	Lab Control Sample	Total/NA	Solid	3510C	
310-220517-1 MS	ZDSF-112221-001	TCLP	Solid	3510C	337282
310-220517-1 MSD	ZDSF-112221-001	TCLP	Solid	3510C	337282

Analysis Batch: 337552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-220517-1	ZDSF-112221-001	TCLP	Solid	8082A	337354
LB 310-337282/1-B	Method Blank	TCLP	Solid	8082A	337354
LCS 310-337354/2-A	Lab Control Sample	Total/NA	Solid	8082A	337354
310-220517-1 MS	ZDSF-112221-001	TCLP	Solid	8082A	337354
310-220517-1 MSD	ZDSF-112221-001	TCLP	Solid	8082A	337354

Analysis Batch: 337746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-220517-1	ZDSF-112221-001	Total/NA	Solid	8082A	337337

Analysis Batch: 337980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-337337/1-A	Method Blank	Total/NA	Solid	8082A	337337
LCS 310-337337/2-A	Lab Control Sample	Total/NA	Solid	8082A	337337
LCSD 310-337337/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	337337

Analysis Batch: 338139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-220517-1	ZDSF-112221-001	Total/NA	Solid	8082A	337337

Analysis Batch: 338934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-220517-1	ZDSF-112221-001	Total/NA	Solid	PCB	

Metals

Leach Batch: 337279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-220517-1	ZDSF-112221-001	TCLP	Solid	1311	

Eurofins TestAmerica, Cedar Falls

QC Association Summary

Client: CJF Associates, LLC
Project/Site: Davenport, 1217-01

Job ID: 310-220517-1

Metals (Continued)

Leach Batch: 337279 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 310-337279/1-B	Method Blank	TCLP	Solid	1311	
LB 310-337279/1-D	Method Blank	TCLP	Solid	1311	
LCS 310-337279/2-B	Lab Control Sample	TCLP	Solid	1311	
LCS 310-337279/2-D	Lab Control Sample	TCLP	Solid	1311	

Prep Batch: 337334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-220517-1	ZDSF-112221-001	TCLP	Solid	3010A	337279
LB 310-337279/1-B	Method Blank	TCLP	Solid	3010A	337279
LCS 310-337279/2-B	Lab Control Sample	TCLP	Solid	3010A	337279

Prep Batch: 337375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-220517-1	ZDSF-112221-001	TCLP	Solid	7470A	337279
LB 310-337279/1-D	Method Blank	TCLP	Solid	7470A	337279
LCS 310-337279/2-D	Lab Control Sample	TCLP	Solid	7470A	337279

Analysis Batch: 337581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-220517-1	ZDSF-112221-001	TCLP	Solid	7470A	337375
LB 310-337279/1-D	Method Blank	TCLP	Solid	7470A	337375
LCS 310-337279/2-D	Lab Control Sample	TCLP	Solid	7470A	337375

Analysis Batch: 337987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-220517-1	ZDSF-112221-001	TCLP	Solid	6010C	337334
LB 310-337279/1-B	Method Blank	TCLP	Solid	6010C	337334
LCS 310-337279/2-B	Lab Control Sample	TCLP	Solid	6010C	337334

General Chemistry

Analysis Batch: 336761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-220517-1	ZDSF-112221-001	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CJF Associates, LLC
 Project/Site: Davenport, 1217-01

Job ID: 310-220517-1

Client Sample ID: ZDSF-112221-001

Lab Sample ID: 310-220517-1

Date Collected: 11/22/21 11:00

Matrix: Solid

Date Received: 11/24/21 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			337282	12/01/21 14:15	JTA	TAL CF
TCLP	Prep	3510C			337354	12/02/21 13:26	JCM	TAL CF
TCLP	Analysis	8082A		1	337552	12/03/21 20:49	BBW	TAL CF
Total/NA	Analysis	PCB		1	338934	12/16/21 08:29	BBW	TAL CF
TCLP	Leach	1311			337279	12/01/21 14:15	JTA	TAL CF
TCLP	Prep	3010A			337334	12/02/21 11:00	ACM2	TAL CF
TCLP	Analysis	6010C		1	337987	12/07/21 20:53	CTB	TAL CF
TCLP	Leach	1311			337279	12/01/21 14:15	JTA	TAL CF
TCLP	Prep	7470A			337375	12/02/21 14:12	EAM	TAL CF
TCLP	Analysis	7470A		1	337581	12/03/21 15:33	EAM	TAL CF
Total/NA	Analysis	Moisture		1	336761	11/26/21 14:56	ARG	TAL CF

Client Sample ID: ZDSF-112221-001

Lab Sample ID: 310-220517-1

Date Collected: 11/22/21 11:00

Matrix: Solid

Date Received: 11/24/21 14:30

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			337337	12/02/21 10:18	KMH	TAL CF
Total/NA	Analysis	8082A		1	337746	12/06/21 18:26	BBW	TAL CF
Total/NA	Prep	3550B			337337	12/02/21 10:18	KMH	TAL CF
Total/NA	Analysis	8082A		10	338139	12/09/21 10:22	BBW	TAL CF

Laboratory References:

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

Accreditation/Certification Summary

Client: CJF Associates, LLC
Project/Site: Davenport, 1217-01

Job ID: 310-220517-1

Laboratory: Eurofins TestAmerica, 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	12-01-21 *

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

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

Method Summary

Client: CJF Associates, LLC
Project/Site: Davenport, 1217-01

Job ID: 310-220517-1

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.

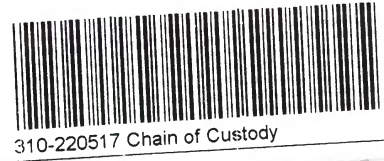
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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



Environment Testing
TestAmerica



Cooler/Sample Receipt and Temperature Log Form

Client Information		
Client: <u>CFJ Associates</u>		
City/State: <u>St. Clair shores</u> <small>CITY</small> <u>MN</u> <small>STATE</small>	Project: <u>Ater 3D</u>	
Receipt Information		
Date/Time Received: <u>11/24/21</u> <small>DATE</small> <u>1430</u> <small>TIME</small>	Received By: <u>JJ</u>	
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____		
Condition of Cooler/Containers		
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
Temperature Record		
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE		
Thermometer ID: <u>0</u>	Correction Factor (°C): <u>+0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature		
Uncorrected Temp (°C):	Corrected Temp (°C):	
• Sample Container Temperature		
Container(s) used:	<u>pbiljar402</u> <small>CONTAINER 1</small>	<u>sa1jar402</u> <small>CONTAINER 2</small>
Uncorrected Temp (°C):	<u>10.8</u>	<u>11.7</u>
Corrected Temp (°C):	<u>10.8</u>	<u>11.7</u>
Exceptions Noted		
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No		
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No		
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No		
NOTE: If yes, contact PM before proceeding. If no, proceed with login		
Additional Comments		

Login Sample Receipt Checklist

Client: CJF Associates, LLC

Job Number: 310-220517-1

Login Number: 220517

List Source: Eurofins TestAmerica, Cedar Falls

List Number: 1

Creator: Homolar, Dana J

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
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.	False	Cooler temperature outside required temperature criteria.
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?	True	
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	

