Environmental Engineering,
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September 13, 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
3rd Quarter 2021 - September 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

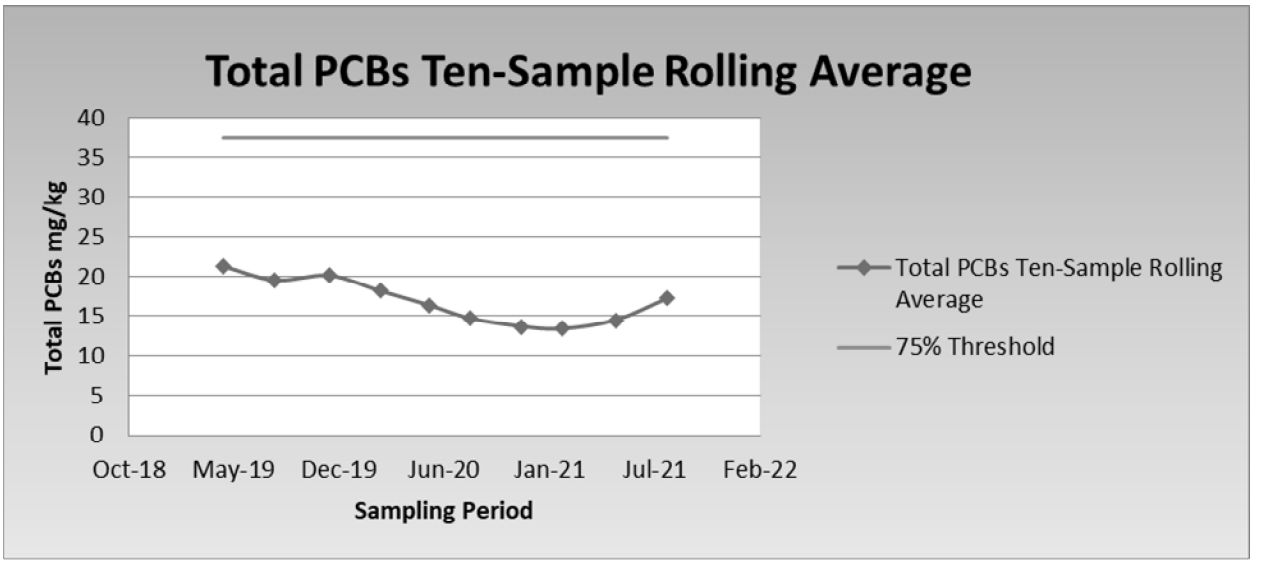
- PCB concentration this quarter: 44 mg/kg;
- Ten-Sample Rolling PCB Average: 17.29 mg/kg;
- PCB TCLP result this quarter is non-detect; and
- All TCLP metal results are below regulatory criteria.

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 July 19, 2021 through July 28, 2021 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 PCB results for the sampling period totaled 44 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 0.20 mg/L does not exceed the regulatory TCLP concentration of 5.0 mg/L. The present ten-sample rolling average for PCBs is 17.29 mg/kg. Rolling averages of the ten-sampling period results for total PCBs are presented below:



Initially one sample was analyzed for total PCBs. The sample, ZDSF-081621-002, was identified with an elevated concentration at 71 mg/kg. This concentration is not consistent with historical data (previous ten-sample rolling average concentration of 17.29 mg/kg PCBs). The duplicate sample of ZDSF-081621-002 DUP was then analyzed for total PCBs and a result of 44 mg/kg PCBs was identified. Therefore, the concentration of 71 mg/kg was determined to be an anomaly and not representative of the fluff.

Third quarter analytical results are summarized as follows:

	Analyte										
Sample ID	Total PCBs[1]	TCLP PCBs	TCLP Arsenic	TCLP Barium	TCLP Cad	TCLP Chrom	TCLP Lead	TCLP Sel	TCLP Silver	TCLP Mercury	Ignitability[2]
ZDSF-081621-002	~~71~~	ND	ND	0.93	0.25	ND	0.20	ND	ND	ND	>215
ZDSF-081621-002 DUP	44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

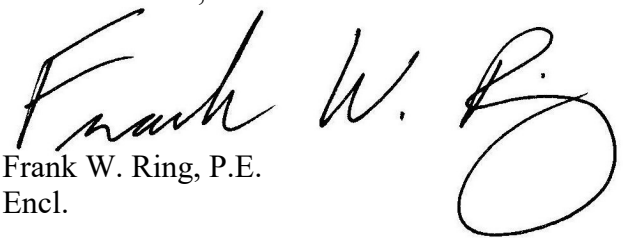
Notes: All TCLP results are reported in mg/L
(1) Results reported in mg/kg
(2) Results reported in degrees Fahrenheit

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

Laboratory analytical results and chain of custody forms are presented in Attachment A.

If you have any questions, please contact Frank W. Ring at (313) 999-4071.

Sincerely,
CJF Associates, LLC



Frank W. Ring, P.E.
Encl.

CC: Patrick Kohlmeier, Alter
Brian Seals, Waste Commission of Scott County

ATTACHMENT A

LABORATORY ANALYTICAL RESULTS

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-154622-1
Client Project/Site: Davenport, 1217

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

Attn: Charles Ring

Denise D Heckler

Authorized for release by:
9/2/2021 2:31:28 PM

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

Table of Contents

Definitions/Glossary

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

Job ID: 240-154622-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low 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: Davenport, 1217

Job ID: 240-154622-1

Job ID: 240-154622-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative
240-154622-1

Comments
No additional comments.

Receipt
The samples were received on 8/17/2021 10:40 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 4.1º C.

GC Semi VOA
Method 8082A: The method blank for preparation batch 310-325868 and analytical batch 310-326446 contained PCB-1260 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8082A: The CCV for PCB-1260 failed on the confirmation column since the primary column was within criteria, reanalysis was not performed on results with less than a 40% dual column RPD and the results have been reported.

Method 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 310-326182 and 310-326691 and analytical batch 310-327011 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8082A: The following sample required a dilution due to the nature of the sample matrix: ZDSF-081621-002 (240-154622-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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-081621-002 (240-154622-1)

Method 3550B: The following sample was diluted due to the nature of the sample matrix: ZDSF-081621-002 (240-154622-1). 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.

Method Summary

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

Job ID: 240-154622-1

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
D92	Flashpoint	ASTM	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:

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:

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

Sample Summary

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

Job ID: 240-154622-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-154622-1	ZDSF-081621-002	Solid	08/16/21 12:00	08/17/21 10:40

Detection Summary

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

Job ID: 240-154622-1

Client Sample ID: ZDSF-081621-002 — Lab Sample ID: 240-154622-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	71		16	1.7	mg/Kg	200	☼	8082A	Total/NA
Total PCBs	71		16	4.2	mg/Kg	1		PCB	Total/NA
Barium	0.93		0.50	0.11	mg/L	1		6010C	TCLP
Cadmium	0.25		0.020	0.0044	mg/L	1		6010C	TCLP
Lead	0.20		0.10	0.032	mg/L	1		6010C	TCLP
Flashpoint	>215		40.0	40.0	Degrees F	1		D92	Total/NA

This Detection Summary does not include radiochemical test results.

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

Job ID: 240-154622-1

Client Sample ID: ZDSF-081621-002

Date Collected: 08/16/21 12:00
Date Received: 08/17/21 10:40

Lab Sample ID: 240-154622-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F1	4.0	1.3	ug/L		08/27/21 07:55	08/31/21 08:30	1
PCB-1221	ND		4.0	1.3	ug/L		08/27/21 07:55	08/31/21 08:30	1
PCB-1232	ND		4.0	1.3	ug/L		08/27/21 07:55	08/31/21 08:30	1
PCB-1242	ND		4.0	1.3	ug/L		08/27/21 07:55	08/31/21 08:30	1
PCB-1248	ND		4.0	1.1	ug/L		08/27/21 07:55	08/31/21 08:30	1
PCB-1254	ND		4.0	1.1	ug/L		08/27/21 07:55	08/31/21 08:30	1
PCB-1260	ND	F1	4.0	1.1	ug/L		08/27/21 07:55	08/31/21 08:30	1
PCB-1268	ND		4.0	1.1	ug/L		08/27/21 07:55	08/31/21 08:30	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		08/27/21 07:55	08/31/21 08:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*10 - 119*	*08/27/21 07:55*	*08/31/21 08:30*	*1*
Tetrachloro-m-xylene	*74*		*14 - 110*	*08/27/21 07:55*	*08/31/21 08:30*	*1*

Method: PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PCBs	**71**		16	4.2	mg/Kg			08/27/21 12:33	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.10	0.050	mg/L		08/25/21 09:00	08/26/21 15:28	1
Barium	**0.93**		0.50	0.11	mg/L		08/25/21 09:00	08/26/21 15:28	1
Cadmium	**0.25**		0.020	0.0044	mg/L		08/25/21 09:00	08/26/21 15:28	1
Chromium	ND		0.020	0.0087	mg/L		08/25/21 09:00	08/26/21 15:28	1
Lead	**0.20**		0.10	0.032	mg/L		08/25/21 09:00	08/26/21 15:28	1
Selenium	ND		0.10	0.063	mg/L		08/25/21 09:00	08/26/21 15:28	1
Silver	ND		0.020	0.0087	mg/L		08/25/21 09:00	08/26/21 15:28	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0015	mg/L		08/24/21 11:54	08/25/21 17:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>215**		40.0	40.0	Degrees F			08/20/21 11:11	1
Percent Moisture	**23.4**		0.1	0.1	%			08/18/21 14:28	1
Percent Solids	**76.6**		0.1	0.1	%			08/18/21 14:28	1

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

Job ID: 240-154622-1

Client Sample ID: ZDSF-081621-002
Date Collected: 08/16/21 12:00
Date Received: 08/17/21 10:40

Lab Sample ID: 240-154622-1
Matrix: Solid
Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		16	0.40	mg/Kg	☼	08/19/21 12:56	09/01/21 09:52	200
PCB-1221	ND		16	4.2	mg/Kg	☼	08/19/21 12:56	09/01/21 09:52	200
PCB-1232	ND		16	1.6	mg/Kg	☼	08/19/21 12:56	09/01/21 09:52	200
PCB-1242	**71**		16	1.7	mg/Kg	☼	08/19/21 12:56	09/01/21 09:52	200
PCB-1248	ND		16	1.1	mg/Kg	☼	08/19/21 12:56	09/01/21 09:52	200
PCB-1254	ND		16	0.99	mg/Kg	☼	08/19/21 12:56	09/01/21 09:52	200
PCB-1260	ND		16	0.53	mg/Kg	☼	08/19/21 12:56	09/01/21 09:52	200
PCB-1268	ND		16	0.22	mg/Kg	☼	08/19/21 12:56	09/01/21 09:52	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*10 - 136*	*08/19/21 12:56*	*09/01/21 09:52*	*200*
Tetrachloro-m-xylene	*0*	*S1-*	*21 - 110*	*08/19/21 12:56*	*09/01/21 09:52*	*200*

Surrogate Summary

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

Job ID: 240-154622-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(10-136)	(21-110)
240-154622-1	ZDSF-081621-002	0 S1-	0 S1-

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID	(10-136)	(21-110)
LCS 310-325868/2-A	Lab Control Sample	104	68
LCSD 310-325868/3-A	Lab Control Sample Dup	95	59
MB 310-325868/1-A	Method Blank	114	77

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)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(10-119)	(14-110)
LCS 310-326691/2-A	Lab Control Sample	101	75

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)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(10-119)	(14-110)
240-154622-1	ZDSF-081621-002	71	74
240-154622-1 MS	ZDSF-081621-002	88	81
240-154622-1 MSD	ZDSF-081621-002	77	87
LB 310-326182/1-C	Method Blank	85	65

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

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

Lab Sample ID: MB 310-325868/1-A
Matrix: Solid
Analysis Batch: 326446

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 325868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.025	0.00065	mg/Kg		08/19/21 12:56	08/25/21 17:14	1
PCB-1221	ND		0.025	0.0067	mg/Kg		08/19/21 12:56	08/25/21 17:14	1
PCB-1232	ND		0.025	0.0025	mg/Kg		08/19/21 12:56	08/25/21 17:14	1
PCB-1242	ND		0.025	0.0027	mg/Kg		08/19/21 12:56	08/25/21 17:14	1
PCB-1248	ND		0.025	0.0017	mg/Kg		08/19/21 12:56	08/25/21 17:14	1
PCB-1254	ND		0.025	0.0016	mg/Kg		08/19/21 12:56	08/25/21 17:14	1
PCB-1260	0.00709	J	0.025	0.00084	mg/Kg		08/19/21 12:56	08/25/21 17:14	1
PCB-1268	ND		0.025	0.00035	mg/Kg		08/19/21 12:56	08/25/21 17:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*114*		*10 - 136*	*08/19/21 12:56*	*08/25/21 17:14*	*1*
Tetrachloro-m-xylene	*77*		*21 - 110*	*08/19/21 12:56*	*08/25/21 17:14*	*1*

Lab Sample ID: LCS 310-325868/2-A
Matrix: Solid
Analysis Batch: 326446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 325868

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.197	0.159		mg/Kg		81	33 - 113		
PCB-1260			0.197	0.157		mg/Kg		80	30 - 111		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*104*		*10 - 136*
Tetrachloro-m-xylene	*68*		*21 - 110*

Lab Sample ID: LCSD 310-325868/3-A
Matrix: Solid
Analysis Batch: 326446

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 325868

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			0.198	0.159		mg/Kg		81	33 - 113	8	34
PCB-1260			0.198	0.167		mg/Kg		84	30 - 111	12	29

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*95*		*10 - 136*
Tetrachloro-m-xylene	*59*		*21 - 110*

Lab Sample ID: LCS 310-326691/2-A
Matrix: Solid
Analysis Batch: 327011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326691

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			6.25	5.89		ug/L		94	21 - 119		
PCB-1260			6.25	6.32		ug/L		101	18 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*101*		*10 - 119*

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

Lab Sample ID: LCS 310-326691/2-A
Matrix: Solid
Analysis Batch: 327011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 326691

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	75		14 - 110

Lab Sample ID: LB 310-326182/1-C
Matrix: Solid
Analysis Batch: 327011

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 326691

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		4.0	1.3	ug/L		08/27/21 07:55	08/31/21 07:48	1
PCB-1221	ND		4.0	1.3	ug/L		08/27/21 07:55	08/31/21 07:48	1
PCB-1232	ND		4.0	1.3	ug/L		08/27/21 07:55	08/31/21 07:48	1
PCB-1242	ND		4.0	1.3	ug/L		08/27/21 07:55	08/31/21 07:48	1
PCB-1248	ND		4.0	1.1	ug/L		08/27/21 07:55	08/31/21 07:48	1
PCB-1254	ND		4.0	1.1	ug/L		08/27/21 07:55	08/31/21 07:48	1
PCB-1260	ND		4.0	1.1	ug/L		08/27/21 07:55	08/31/21 07:48	1
PCB-1268	ND		4.0	1.1	ug/L		08/27/21 07:55	08/31/21 07:48	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		08/27/21 07:55	08/31/21 07:48	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	85		10 - 119	08/27/21 07:55	08/31/21 07:48	1
Tetrachloro-m-xylene	65		14 - 110	08/27/21 07:55	08/31/21 07:48	1

Lab Sample ID: 240-154622-1 MS
Matrix: Solid
Analysis Batch: 327011

Client Sample ID: ZDSF-081621-002
Prep Type: TCLP
Prep Batch: 326691

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND	F1	6.25	7.94	F1	ug/L		127	21 - 119
PCB-1260	ND	F1	6.25	103	F1	ug/L		1646	18 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	88		10 - 119
Tetrachloro-m-xylene	81		14 - 110

Lab Sample ID: 240-154622-1 MSD
Matrix: Solid
Analysis Batch: 327011

Client Sample ID: ZDSF-081621-002
Prep Type: TCLP
Prep Batch: 326691

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND	F1	6.25	9.21	F1	ug/L		147	21 - 119	15	35
PCB-1260	ND	F1	6.25	105	F1	ug/L		1688	18 - 122	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	77		10 - 119
Tetrachloro-m-xylene	87		14 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: LB 310-326180/1-C
Matrix: Solid
Analysis Batch: 326643

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 326296

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0549	J	0.10	0.050	mg/L		08/25/21 09:00	08/26/21 15:18	1
Barium	ND		0.50	0.11	mg/L		08/25/21 09:00	08/26/21 15:18	1
Cadmium	ND		0.020	0.0044	mg/L		08/25/21 09:00	08/26/21 15:18	1
Chromium	ND		0.020	0.0087	mg/L		08/25/21 09:00	08/26/21 15:18	1
Lead	ND		0.10	0.032	mg/L		08/25/21 09:00	08/26/21 15:18	1
Selenium	ND		0.10	0.063	mg/L		08/25/21 09:00	08/26/21 15:18	1
Silver	ND		0.020	0.0087	mg/L		08/25/21 09:00	08/26/21 15:18	1

Lab Sample ID: LCS 310-326180/2-C
Matrix: Solid
Analysis Batch: 326643

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 326296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.00	4.09		mg/L		102	80 - 120
Barium	2.00	2.01		mg/L		100	80 - 120
Cadmium	2.00	1.81		mg/L		91	80 - 120
Chromium	2.00	1.94		mg/L		97	80 - 120
Lead	4.00	3.62		mg/L		90	80 - 120
Selenium	8.00	8.25		mg/L		103	80 - 120
Silver	2.00	2.21		mg/L		111	80 - 120

Lab Sample ID: 240-154622-1 MS
Matrix: Solid
Analysis Batch: 326643

Client Sample ID: ZDSF-081621-002
Prep Type: TCLP
Prep Batch: 326296

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		4.00	4.03		mg/L		101	75 - 125
Barium	0.93		2.00	2.89		mg/L		98	75 - 125
Cadmium	0.25		2.00	2.01		mg/L		88	75 - 125
Chromium	ND		2.00	1.85		mg/L		93	75 - 125
Lead	0.20		4.00	3.68		mg/L		87	75 - 125
Selenium	ND		8.00	8.08		mg/L		101	75 - 125
Silver	ND		2.00	2.00		mg/L		100	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 310-326180/1-B
Matrix: Solid
Analysis Batch: 326484

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 326276

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0015	mg/L		08/24/21 11:54	08/25/21 16:54	1

Lab Sample ID: LCS 310-326180/2-B
Matrix: Solid
Analysis Batch: 326484

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 326276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0167	0.0191		mg/L		115	80 - 120

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

Lab Sample ID: 240-154622-1 MS
Matrix: Solid
Analysis Batch: 326484

Client Sample ID: ZDSF-081621-002
Prep Type: TCLP
Prep Batch: 326276

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.0167	0.0199		mg/L		119	80 - 120

GC Semi VOA

Prep Batch: 325868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-1	ZDSF-081621-002	Total/NA	Solid	3550B	
MB 310-325868/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-325868/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 310-325868/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	

Leach Batch: 326182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-1	ZDSF-081621-002	TCLP	Solid	1311	
LB 310-326182/1-C	Method Blank	TCLP	Solid	1311	
240-154622-1 MS	ZDSF-081621-002	TCLP	Solid	1311	
240-154622-1 MSD	ZDSF-081621-002	TCLP	Solid	1311	

Analysis Batch: 326446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-325868/1-A	Method Blank	Total/NA	Solid	8082A	325868
LCS 310-325868/2-A	Lab Control Sample	Total/NA	Solid	8082A	325868
LCSD 310-325868/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	325868

Prep Batch: 326691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-1	ZDSF-081621-002	TCLP	Solid	3510C	326182
LB 310-326182/1-C	Method Blank	TCLP	Solid	3510C	326182
LCS 310-326691/2-A	Lab Control Sample	Total/NA	Solid	3510C	
240-154622-1 MS	ZDSF-081621-002	TCLP	Solid	3510C	326182
240-154622-1 MSD	ZDSF-081621-002	TCLP	Solid	3510C	326182

Analysis Batch: 326768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-1	ZDSF-081621-002	Total/NA	Solid	PCB	

Analysis Batch: 327011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-1	ZDSF-081621-002	TCLP	Solid	8082A	326691
LB 310-326182/1-C	Method Blank	TCLP	Solid	8082A	326691
LCS 310-326691/2-A	Lab Control Sample	Total/NA	Solid	8082A	326691
240-154622-1 MS	ZDSF-081621-002	TCLP	Solid	8082A	326691
240-154622-1 MSD	ZDSF-081621-002	TCLP	Solid	8082A	326691

Analysis Batch: 327142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-1	ZDSF-081621-002	Total/NA	Solid	8082A	325868

Metals

Leach Batch: 326180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-1	ZDSF-081621-002	TCLP	Solid	1311	
LB 310-326180/1-B	Method Blank	TCLP	Solid	1311	
LB 310-326180/1-C	Method Blank	TCLP	Solid	1311	
LCS 310-326180/2-B	Lab Control Sample	TCLP	Solid	1311	
LCS 310-326180/2-C	Lab Control Sample	TCLP	Solid	1311	

Metals (Continued)

Leach Batch: 326180 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-1 MS	ZDSF-081621-002	TCLP	Solid	1311	

Prep Batch: 326276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-1	ZDSF-081621-002	TCLP	Solid	7470A	326180
LB 310-326180/1-B	Method Blank	TCLP	Solid	7470A	326180
LCS 310-326180/2-B	Lab Control Sample	TCLP	Solid	7470A	326180
240-154622-1 MS	ZDSF-081621-002	TCLP	Solid	7470A	326180

Prep Batch: 326296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-1	ZDSF-081621-002	TCLP	Solid	3010A	326180
LB 310-326180/1-C	Method Blank	TCLP	Solid	3010A	326180
LCS 310-326180/2-C	Lab Control Sample	TCLP	Solid	3010A	326180
240-154622-1 MS	ZDSF-081621-002	TCLP	Solid	3010A	326180

Analysis Batch: 326484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-1	ZDSF-081621-002	TCLP	Solid	7470A	326276
LB 310-326180/1-B	Method Blank	TCLP	Solid	7470A	326276
LCS 310-326180/2-B	Lab Control Sample	TCLP	Solid	7470A	326276
240-154622-1 MS	ZDSF-081621-002	TCLP	Solid	7470A	326276

Analysis Batch: 326643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-1	ZDSF-081621-002	TCLP	Solid	6010C	326296
LB 310-326180/1-C	Method Blank	TCLP	Solid	6010C	326296
LCS 310-326180/2-C	Lab Control Sample	TCLP	Solid	6010C	326296
240-154622-1 MS	ZDSF-081621-002	TCLP	Solid	6010C	326296

General Chemistry

Analysis Batch: 325744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-1	ZDSF-081621-002	Total/NA	Solid	Moisture	

Analysis Batch: 325975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-1	ZDSF-081621-002	Total/NA	Solid	D92	

Lab Chronicle

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

Job ID: 240-154622-1

Client Sample ID: ZDSF-081621-002

Lab Sample ID: 240-154622-1

Date Collected: 08/16/21 12:00

Matrix: Solid

Date Received: 08/17/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			326182	08/23/21 14:05	DEM1	TAL CF
TCLP	Prep	3510C			326691	08/27/21 07:55	JCM	TAL CF
TCLP	Analysis	8082A		1	327011	08/31/21 08:30	BBW	TAL CF
Total/NA	Analysis	PCB		1	326768	08/27/21 12:33	DLK	TAL CF
TCLP	Leach	1311			326180	08/23/21 14:05	DEM1	TAL CF
TCLP	Prep	3010A			326296	08/25/21 09:00	ACM2	TAL CF
TCLP	Analysis	6010C		1	326643	08/26/21 15:28	CTB	TAL CF
TCLP	Leach	1311			326180	08/23/21 14:05	DEM1	TAL CF
TCLP	Prep	7470A			326276	08/24/21 11:54	EAM	TAL CF
TCLP	Analysis	7470A		1	326484	08/25/21 17:02	EAM	TAL CF
Total/NA	Analysis	D92		1	325975	08/20/21 11:11	BER	TAL CF
Total/NA	Analysis	Moisture		1	325744	08/18/21 14:28	ARG	TAL CF

Client Sample ID: ZDSF-081621-002

Lab Sample ID: 240-154622-1

Date Collected: 08/16/21 12:00

Matrix: Solid

Date Received: 08/17/21 10:40

Percent Solids: 76.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			325868	08/19/21 12:56	KMH	TAL CF
Total/NA	Analysis	8082A		200	327142	09/01/21 09:52	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

Job ID: 240-154622-1

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

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720-6900
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

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

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	**Project Manager:**		COC No:
CJF Associates	**Email:**	**Site Contact:** / **Date:**	___1___ of ___1__ COCs
22324 Harper Ave	**Tel/Fax:**	**Lab Contact:** / **Carrier:**	TALS Project #:
St Clair Shores, MI 48080	**Analysis Turnaround Time**		Sampler: Charles Ring
(248) 227-5171 Phone	☐ CALENDAR DAYS ☐ WORKING DAYS		**For Lab Use Only:**
(xxx) xxx-xxxx FAX	TAT if different from Below _____		Walk-in Client:
Project Name: After ZD	☐ 2 weeks		Lab Sampling:
Site: Davenport, Iowa	☐ 1 week		
P O # 1217-01	☐ 2 days		Job / SDG No.:
	☐ 1 day		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Total PCBs	TCLP PCBs	TCLP RCRA Metals	Ignitability	Sample Specific Notes:
ZDSF-081621-002	8-16-21	12:00	C		4			x	x	x	x	
↓ -002 DUP	↓	↓	↓		↓							Hold

240-154622 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

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

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

Special Instructions/QC Requirements & Comments: Sample is ASR from Iowa and needs an Iowa Certified Lab.

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____	Corr'd: _____	Therm ID No.: _____
Relinquished by:	Company: CJF	Date/Time: 8-16-21 2:00	Received by:	Company: ETA	Date/Time: 8-17-21 1040
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.35, dated 10/6/2020

Eurofins TestAmerica Canton Sample Receipt Form/Narrative **Login # : 154622**
Canton Facility

Client CJF Site Name

Cooler Received on 8-17-21 Opened on 8-17-21

Cooler unpacked by: Matt

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # JA 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-11 (CF +0.1 °C) Observed Cooler Temp. 4.0 °C Corrected Cooler Temp. 4.1 °C
   IR GUN #IR-12 (CF +0.2°C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?		
10. Were correct bottle(s) used for the test(s) indicated?	Yes	No
11. Sufficient quantity received to perform indicated analyses?	Yes	No
12. Are these work share samples and all listed on the COC?	Yes	No
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC157842
14. Were VOAs on the COC?	Yes	No
15. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # ____	Yes	No
17. Was a LL Hg or Me Hg trip blank present? ____	Yes	No

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

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

No date/times on containers

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: ____

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240-154622 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: ETA Canton

City/State: CITY North Canton STATE OH | Project:

Receipt Information

Date/Time Received: DATE 8/18/24 TIME 1030 | Received By: LB

Delivery Type: ☐ UPS ☒ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☒ Yes	☐ No	*If yes:* Cooler ID:
Multiple Coolers?	☐ Yes	☒ No	*If yes:* Cooler # _____ of _____
Cooler Custody Seals Present?	☐ Yes	☒ No	*If yes:* Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?	☐ Yes	☒ No	*If yes:* Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?	☐ Yes	☒ No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: 0 | Correction Factor (°C): 0

• **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 1	CONTAINER 2
Container(s) used:	500 HDPE Plastic	
Uncorrected Temp (°C):	2.3	
Corrected Temp (°C):	2.3	

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ 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?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 240-141375.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Denise.Heckler@Eurofinset.com	State of Origin: Iowa	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State - Iowa		Job #: 240-154622-1
Address: 3019 Venture Way, ,	Due Date Requested: 8/30/2021			
City: Cedar Falls	TAT Requested (days):			
State, Zip: IA, 50613				
Phone: 319-277-2401(Tel) 319-277-2425(Fax)	PO #:			
Email:	WO #:			
Project Name: Alter Metals, Iowa, 1053,1216,1217,1218	Project #: 24013819			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture	7470A/1311T_Hg Mercury TCLP	6010C/1311T_M TCLP Metals	D92/ Flashpoint	8082A/1311_T TCLP PCB	8082A/3550B_PCB_1YR PCBs	Total_PCB/ Total PCBs	Total Number of containers	Special Instructions/Note:
			Preservation Code:												
ZDSF-081621-002 (240-154622-1)	8/16/21	12:00 Central		Solid			X	X	X	X	X	X	X	4	
ZDSF-081621-002 DUP (240-154622-2)	8/16/21	12:00 Central		Solid			X							4	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8-17-21 1503	ETA			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 8-18-21 1030	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: CJF Associates, LLC

Job Number: 240-154622-1

Login Number: 154622
List Number: 2
Creator: Homolar, Dana J

List Source: Eurofins TestAmerica, Cedar Falls
List Creation: 08/18/21 11:42 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	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-154622-2
Client Project/Site: Davenport, 1217

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

Attn: Charles Ring

Denise D Heckler

Authorized for release by:
9/10/2021 12:21:18 PM

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

Table of Contents

Definitions/Glossary

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

Job ID: 240-154622-2

Qualifiers

GC Semi VOA

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

Glossary

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

Case Narrative

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

Job ID: 240-154622-2

Job ID: 240-154622-2

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative
240-154622-2

Comments
PCB analysis was requested by CJF on September 3, 2021.

Receipt
The samples were received on 8/17/2021 10:40 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 4.1º C.

GC Semi VOA
Method 8082A: Surrogate recovery for the following sample was outside control limits: ZDSF-081621-002 DUP (240-154622-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: ZDSF-081621-002 DUP (240-154622-2). 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.

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

Organic Prep
Method 1311: Insufficient sample was provided to perform the leaching procedure with the required 100g for the following sample: ZDSF-081621-002 DUP (240-154622-2). The volume of leaching fluid was adjusted proportionally to maintain a 20:1 ratio of leaching fluid to weight of sample. Reporting limits (RLs) are not affected.

Method 1311: The sample was tumbled in plastic due to matrix.

Method 3550B: The following sample was diluted due to the nature of the sample matrix: ZDSF-081621-002 DUP (240-154622-2). 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.

Method Summary

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

Job ID: 240-154622-2

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

Sample Summary

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

Job ID: 240-154622-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-154622-2	ZDSF-081621-002 DUP	Solid	08/16/21 12:00	08/17/21 10:40

Detection Summary

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

Job ID: 240-154622-2

Client Sample ID: ZDSF-081621-002 DUP

Lab Sample ID: 240-154622-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	44		7.5	0.81	mg/Kg	100	☼	8082A	Total/NA
Total PCBs	44		7.5	0.81	mg/Kg	1		PCB	Total/NA

This Detection Summary does not include radiochemical test results.

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

Job ID: 240-154622-2

Client Sample ID: ZDSF-081621-002 DUP

Date Collected: 08/16/21 12:00
Date Received: 08/17/21 10:40

Lab Sample ID: 240-154622-2

Matrix: Solid

Method: 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		09/09/21 08:40	09/09/21 15:24	1
PCB-1221	ND		4.0	1.3	ug/L		09/09/21 08:40	09/09/21 15:24	1
PCB-1232	ND		4.0	1.3	ug/L		09/09/21 08:40	09/09/21 15:24	1
PCB-1242	ND		4.0	1.3	ug/L		09/09/21 08:40	09/09/21 15:24	1
PCB-1248	ND		4.0	1.1	ug/L		09/09/21 08:40	09/09/21 15:24	1
PCB-1254	ND		4.0	1.1	ug/L		09/09/21 08:40	09/09/21 15:24	1
PCB-1260	ND		4.0	1.1	ug/L		09/09/21 08:40	09/09/21 15:24	1
PCB-1268	ND		4.0	1.1	ug/L		09/09/21 08:40	09/09/21 15:24	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		09/09/21 08:40	09/09/21 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*57*		*10 - 119*	*09/09/21 08:40*	*09/09/21 15:24*	*1*
Tetrachloro-m-xylene	*60*		*14 - 110*	*09/09/21 08:40*	*09/09/21 15:24*	*1*

Method: PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PCBs	**44**		7.5	0.81	mg/Kg			09/10/21 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.1**		0.1	0.1	%			09/07/21 08:42	1
Percent Solids	**81.9**		0.1	0.1	%			09/07/21 08:42	1

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

Job ID: 240-154622-2

Client Sample ID: ZDSF-081621-002 DUP

Date Collected: 08/16/21 12:00
Date Received: 08/17/21 10:40

Lab Sample ID: 240-154622-2

Matrix: Solid
Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.075	0.0020	mg/Kg	☼	09/07/21 08:03	09/08/21 15:20	1
PCB-1221	ND		0.075	0.020	mg/Kg	☼	09/07/21 08:03	09/08/21 15:20	1
PCB-1232	ND		0.075	0.0075	mg/Kg	☼	09/07/21 08:03	09/08/21 15:20	1
PCB-1242	**44**		7.5	0.81	mg/Kg	☼	09/07/21 08:03	09/09/21 11:55	100
PCB-1248	ND		0.075	0.0051	mg/Kg	☼	09/07/21 08:03	09/08/21 15:20	1
PCB-1254	ND		0.075	0.0048	mg/Kg	☼	09/07/21 08:03	09/08/21 15:20	1
PCB-1260	ND		0.075	0.0026	mg/Kg	☼	09/07/21 08:03	09/08/21 15:20	1
PCB-1268	ND		0.075	0.0011	mg/Kg	☼	09/07/21 08:03	09/08/21 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*10 - 136*	*09/07/21 08:03*	*09/08/21 15:20*	*1*
Tetrachloro-m-xylene	*119*	*S1+*	*21 - 110*	*09/07/21 08:03*	*09/08/21 15:20*	*1*

Surrogate Summary

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

Job ID: 240-154622-2

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(10-136)	(10-136)	(21-110)	(21-110)
240-154622-2	ZDSF-081621-002 DUP	91		119 S1+	
LCS 310-327575/2-A	Lab Control Sample	106	117	57	65
LCSD 310-327575/3-A	Lab Control Sample Dup	73		42	
MB 310-327575/1-A	Method Blank	116		57	

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)		
		DCB1	TCX1	
Lab Sample ID	Client Sample ID	(10-119)	(14-110)	
LCS 310-327863/3-A	Lab Control Sample	61	67	

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)		
		DCB1	TCX1	
Lab Sample ID	Client Sample ID	(10-119)	(14-110)	
240-154622-2	ZDSF-081621-002 DUP	57	60	
LB 310-327398/1-B	Method Blank	82	81	
LB 310-327679/1-C	Method Blank	95	104	

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

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

Lab Sample ID: MB 310-327575/1-A
Matrix: Solid
Analysis Batch: 327704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.025	0.00064	mg/Kg		09/07/21 08:03	09/08/21 14:48	1
PCB-1221	ND		0.025	0.0066	mg/Kg		09/07/21 08:03	09/08/21 14:48	1
PCB-1232	ND		0.025	0.0025	mg/Kg		09/07/21 08:03	09/08/21 14:48	1
PCB-1242	ND		0.025	0.0027	mg/Kg		09/07/21 08:03	09/08/21 14:48	1
PCB-1248	ND		0.025	0.0017	mg/Kg		09/07/21 08:03	09/08/21 14:48	1
PCB-1254	ND		0.025	0.0016	mg/Kg		09/07/21 08:03	09/08/21 14:48	1
PCB-1260	ND		0.025	0.00084	mg/Kg		09/07/21 08:03	09/08/21 14:48	1
PCB-1268	ND		0.025	0.00034	mg/Kg		09/07/21 08:03	09/08/21 14:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*116*		*10 - 136*	*09/07/21 08:03*	*09/08/21 14:48*	*1*
Tetrachloro-m-xylene	*57*		*21 - 110*	*09/07/21 08:03*	*09/08/21 14:48*	*1*

Lab Sample ID: LCS 310-327575/2-A
Matrix: Solid
Analysis Batch: 327704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.200	0.166		mg/Kg		83	33 - 113
PCB-1016	0.200	0.177		mg/Kg		88	33 - 113
PCB-1260	0.200	0.179		mg/Kg		89	30 - 111
PCB-1260	0.200	0.184		mg/Kg		92	30 - 111

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*106*		*10 - 136*
DCB Decachlorobiphenyl (Surr)	*117*		*10 - 136*
Tetrachloro-m-xylene	*57*		*21 - 110*
Tetrachloro-m-xylene	*65*		*21 - 110*

Lab Sample ID: LCSD 310-327575/3-A
Matrix: Solid
Analysis Batch: 327704

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327575

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	0.196	0.151		mg/Kg		77	33 - 113	10	34
PCB-1260	0.196	0.162		mg/Kg		83	30 - 111	10	29

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*73*		*10 - 136*
Tetrachloro-m-xylene	*42*		*21 - 110*

Lab Sample ID: LCS 310-327863/3-A
Matrix: Solid
Analysis Batch: 327846

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327863

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	6.25	6.44		ug/L		103	21 - 119
PCB-1260	6.25	5.45		ug/L		87	18 - 122

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	61		10 - 119
Tetrachloro-m-xylene	67		14 - 110

Lab Sample ID: LB 310-327398/1-B
Matrix: Solid
Analysis Batch: 327846

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 327863

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		4.0	1.3	ug/L		09/09/21 08:40	09/09/21 14:42	1
PCB-1221	ND		4.0	1.3	ug/L		09/09/21 08:40	09/09/21 14:42	1
PCB-1232	ND		4.0	1.3	ug/L		09/09/21 08:40	09/09/21 14:42	1
PCB-1242	ND		4.0	1.3	ug/L		09/09/21 08:40	09/09/21 14:42	1
PCB-1248	ND		4.0	1.1	ug/L		09/09/21 08:40	09/09/21 14:42	1
PCB-1254	ND		4.0	1.1	ug/L		09/09/21 08:40	09/09/21 14:42	1
PCB-1260	ND		4.0	1.1	ug/L		09/09/21 08:40	09/09/21 14:42	1
PCB-1268	ND		4.0	1.1	ug/L		09/09/21 08:40	09/09/21 14:42	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		09/09/21 08:40	09/09/21 14:42	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	82		10 - 119	09/09/21 08:40	09/09/21 14:42	1
Tetrachloro-m-xylene	81		14 - 110	09/09/21 08:40	09/09/21 14:42	1

Lab Sample ID: LB 310-327679/1-C
Matrix: Solid
Analysis Batch: 327846

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 327863

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		4.0	1.3	ug/L		09/09/21 08:40	09/09/21 14:32	1
PCB-1221	ND		4.0	1.3	ug/L		09/09/21 08:40	09/09/21 14:32	1
PCB-1232	ND		4.0	1.3	ug/L		09/09/21 08:40	09/09/21 14:32	1
PCB-1242	ND		4.0	1.3	ug/L		09/09/21 08:40	09/09/21 14:32	1
PCB-1248	ND		4.0	1.1	ug/L		09/09/21 08:40	09/09/21 14:32	1
PCB-1254	ND		4.0	1.1	ug/L		09/09/21 08:40	09/09/21 14:32	1
PCB-1260	ND		4.0	1.1	ug/L		09/09/21 08:40	09/09/21 14:32	1
PCB-1268	ND		4.0	1.1	ug/L		09/09/21 08:40	09/09/21 14:32	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		09/09/21 08:40	09/09/21 14:32	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	95		10 - 119	09/09/21 08:40	09/09/21 14:32	1
Tetrachloro-m-xylene	104		14 - 110	09/09/21 08:40	09/09/21 14:32	1

QC Association Summary

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

Job ID: 240-154622-2

GC Semi VOA

Leach Batch: 327398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 310-327398/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 327575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-2	ZDSF-081621-002 DUP	Total/NA	Solid	3550B	
MB 310-327575/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-327575/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 310-327575/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	

Leach Batch: 327679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-2	ZDSF-081621-002 DUP	TCLP	Solid	1311	
LB 310-327679/1-C	Method Blank	TCLP	Solid	1311	

Analysis Batch: 327704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-2	ZDSF-081621-002 DUP	Total/NA	Solid	8082A	327575
MB 310-327575/1-A	Method Blank	Total/NA	Solid	8082A	327575
LCS 310-327575/2-A	Lab Control Sample	Total/NA	Solid	8082A	327575
LCSD 310-327575/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	327575

Analysis Batch: 327846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-2	ZDSF-081621-002 DUP	TCLP	Solid	8082A	327863
240-154622-2	ZDSF-081621-002 DUP	Total/NA	Solid	8082A	327575
LB 310-327398/1-B	Method Blank	TCLP	Solid	8082A	327863
LB 310-327679/1-C	Method Blank	TCLP	Solid	8082A	327863
LCS 310-327863/3-A	Lab Control Sample	Total/NA	Solid	8082A	327863

Prep Batch: 327863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-2	ZDSF-081621-002 DUP	TCLP	Solid	3510C	327679
LB 310-327398/1-B	Method Blank	TCLP	Solid	3510C	327398
LB 310-327679/1-C	Method Blank	TCLP	Solid	3510C	327679
LCS 310-327863/3-A	Lab Control Sample	Total/NA	Solid	3510C	

Analysis Batch: 328034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-2	ZDSF-081621-002 DUP	Total/NA	Solid	PCB	

General Chemistry

Analysis Batch: 327579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154622-2	ZDSF-081621-002 DUP	Total/NA	Solid	Moisture	

Lab Chronicle

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

Job ID: 240-154622-2

Client Sample ID: ZDSF-081621-002 DUP

Date Collected: 08/16/21 12:00
Date Received: 08/17/21 10:40

Lab Sample ID: 240-154622-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			327679	09/07/21 14:00	JTA	TAL CF
TCLP	Prep	3510C			327863	09/09/21 08:40	DEM1	TAL CF
TCLP	Analysis	8082A		1	327846	09/09/21 15:24	BBW	TAL CF
Total/NA	Analysis	PCB		1	328034	09/10/21 09:18	DLK	TAL CF
Total/NA	Analysis	Moisture		1	327579	09/07/21 08:42	SAS	TAL CF

Client Sample ID: ZDSF-081621-002 DUP

Date Collected: 08/16/21 12:00
Date Received: 08/17/21 10:40

Lab Sample ID: 240-154622-2

Matrix: Solid
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			327575	09/07/21 08:03	KMH	TAL CF
Total/NA	Analysis	8082A		1	327704	09/08/21 15:20	BBW	TAL CF
Total/NA	Prep	3550B			327575	09/07/21 08:03	KMH	TAL CF
Total/NA	Analysis	8082A		100	327846	09/09/21 11:55	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

Job ID: 240-154622-2

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

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720-6900
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

eurofins | Environment Testing America

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

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	**Project Manager:**		COC No:
CJF Associates	**Email:**	**Site Contact:** / **Date:**	___1___ of ___1__ COCs
22324 Harper Ave	**Tel/Fax:**	**Lab Contact:** / **Carrier:**	TALS Project #:
St Clair Shores, MI 48080	**Analysis Turnaround Time**		Sampler: Charles Ring
(248) 227-5171 Phone	☐ CALENDAR DAYS ☐ WORKING DAYS		**For Lab Use Only:**
(xxx) xxx-xxxx FAX	TAT if different from Below _____		Walk-in Client:
Project Name: After ZD	☐ 2 weeks		Lab Sampling:
Site: Davenport, Iowa	☐ 1 week		
PO # 1217-01	☐ 2 days		Job / SDG No.:
	☐ 1 day		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Total PCBs	TCLP PCBs	TCLP RCRA Metals	Ignitability	Sample Specific Notes:
ZDSF-081621-002	8-16-21	12:00	C		4			x	x	x	x	
↓ -002 DUP	↓	↓	↓		↓							Hold

240-154622 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

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

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

Special Instructions/QC Requirements & Comments: Sample is ASR from Iowa and needs an Iowa Certified Lab.

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____			Therm ID No.: _____
Relinquished by: Charles Ring	Company: CJF	Date/Time: 8-16-21 2:00	Received by:	Company: ETA	Date/Time: 8-17-21 1040	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:	
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:	

Form No. CA-C-WI-002, Rev. 4.35, dated 10/6/2020

9/10/2021

Eurofins TestAmerica Canton Sample Receipt Form/Narrative **Login # : 154622**
Canton Facility

Client CJF Site Name

Cooler Received on 8-17-21 Opened on 8-17-21

Cooler unpacked by: Matt

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # JA 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-11 (CF +0.1 °C) Observed Cooler Temp. 4.0 °C Corrected Cooler Temp. 4.1 °C
   IR GUN #IR-12 (CF +0.2°C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?		
10. Were correct bottle(s) used for the test(s) indicated?	Yes	No
11. Sufficient quantity received to perform indicated analyses?	Yes	No
12. Are these work share samples and all listed on the COC?	Yes	No
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC157842
14. Were VOAs on the COC?	Yes	No
15. Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # ____	Yes	No
17. Was a LL Hg or Me Hg trip blank present? ____	Yes	No

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

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

No date/times on containers

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: ____

WI-NC-099

Login Sample Receipt Checklist

Client: CJF Associates, LLC

Job Number: 240-154622-2

Login Number: 154622
List Number: 2
Creator: Homolar, Dana J

List Source: Eurofins TestAmerica, Cedar Falls
List Creation: 08/18/21 11:42 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	

Login Sample Receipt Checklist

Client: CJF Associates, LLC

Job Number: 240-154622-2

Login Number: 154622
List Number: 3
Creator: Bormann, Lorna B

List Source: Eurofins TestAmerica, Cedar Falls
List Creation: 09/08/21 08:16 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	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	