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Environmental Engineering,
Management and Consulting

September 24, 2024

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 – Mason City, Iowa
3rd Quarter 2024

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

Summary

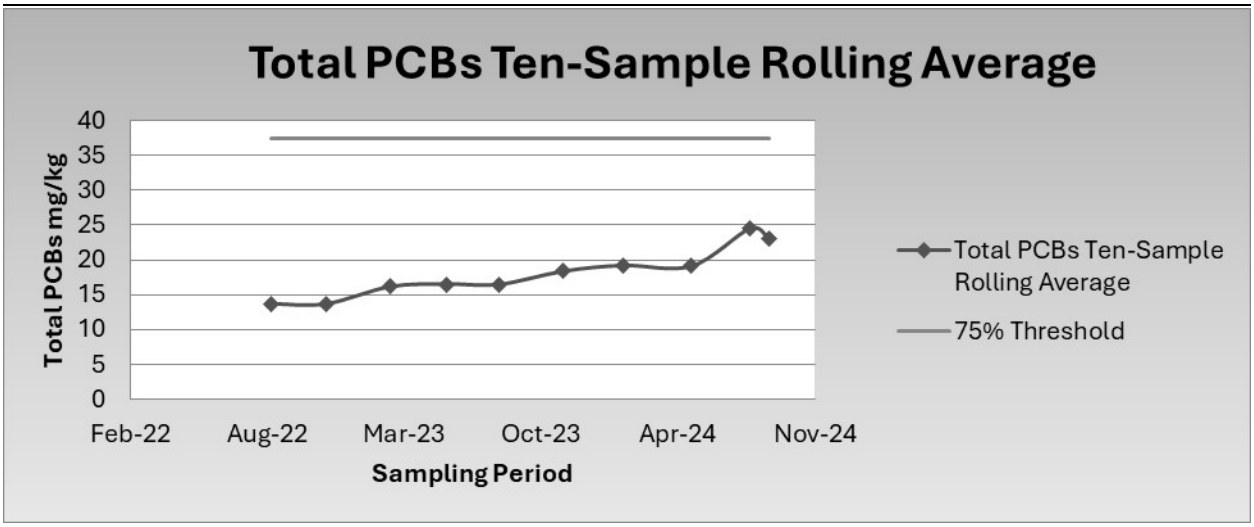
- PCB concentration this quarter: 5.8 mg/kg;
- Ten-Sample Rolling PCB Average: 23.08 mg/kg;
- PCB TCLP result this quarter is non-detect; and
- All TCLP metal results are below regulatory criteria.

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 August 19, 2024 through August 27, 2024 in accordance with IAC 567, Chapter 118. Samples were analyzed for total Polychlorinated Biphenyls (PCBs), Toxic Characteristic Leaching Procedure (TCLP) PCBs, TCLP Resource Conservation and Recovery Act (RCRA) metals, and Ignitability.

Total PCBs results for the sampling period totaled 5.8 mg/kg. Barium, cadmium, and lead were the only RCRA metals identified above the laboratory reporting limits. Lead was identified at a concentration of 0.17 mg/L which does not exceed the regulatory TCLP concentration of 5.0 mg/L. The present ten-sample rolling average for PCBs is 23.08 mg/kg. Rolling averages of the ten-sampling period results for total PCBs are presented below:



Initially one sample was analyzed for all the parameters, however, the sample (MCSF-080224-001) was identified with an elevated concentration of PCBs identified at 77 mg/kg. This concentration is not consistent with historical data (previous ten-sample rolling average of 19.1 mg/kg). Therefore, a new sample was collected and analyzed for all parameters and a result of 5.8 mg/kg PCBs was identified. Therefore, the concentration of 77 mg/kg PCBs 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]
MCSF-080224-001	77	ND	ND	0.68	0.20	ND	ND	ND	ND	ND	>202
MCSF-082924-002	5.8	ND	ND	0.78	0.18	ND	0.17	ND	ND	ND	>201

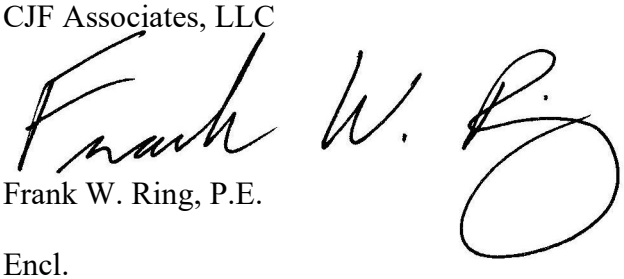
Notes
All TCLP results are reported in mg/L
(1) Results reported in mg/kg
(2) Results reported in Degrees F

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: Ryan Carpenter, Alter
Bill Rowland, Landfill of Iowa North

ATTACHMENT A

LABORATORY ANALYTICAL RESULTS

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Alter Mason City Iowa 1218-01

JOB NUMBER

240-208854-1

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton OH 44203

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

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Authorized for release by
Denise Heckler, Project Manager II
Denise.Heckler@et.eurofinsus.com
(330)966-9477

Table of Contents

Definitions/Glossary

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

Job ID: 240-208854-1

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.
¤	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

Job ID: 240-208854-1 — Eurofins Cleveland

Job Narrative
240-208854-1

Receipt
The samples were received on 8/5/2024 9:30 AM. Unless otherwise noted below, the samples arrived in good condition. The temperature of the cooler at receipt time was 21.3°C.

PCBs
Method 8082A: The following sample was diluted due to the nature of the sample matrix: MCSF-080224-001 (240-208854-1). Elevated reporting limits (RLs) are provided.

Method 8082A - TCLP: The continuing calibration verification (CCV) associated with batch 310-430568 recovered above the upper control limit for PCB-1268. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8082A - TCLP: The continuing calibration verification (CCV) associated with batch 310-430568 recovered above the upper control limit for PCB-1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

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

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

Method Summary

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

Job ID: 240-208854-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
PCB	Total PCB Calculation	TAL SOP	EET CF
6010D	Metals (ICP)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
D92	Flashpoint	ASTM	EET CF
Moisture	Percent Moisture	EPA	EET CF
1311	TCLP Extraction	SW846	EET CF
3010A	Preparation, Total Metals	SW846	EET CF
3511	Microextraction of Organic Compounds	SW846	EET CF
3550B	Ultrasonic Extraction	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

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

Job ID: 240-208854-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-208854-1	MCSF-080224-001	Solid	08/02/24 12:30	08/05/24 09:30

Detection Summary

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

Job ID: 240-208854-1

Client Sample ID: MCSF-080224-001 — Lab Sample ID: 240-208854-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	77		18	2.0	mg/Kg	50	☼	8082A	Total/NA
Total PCBs	77		18	2.0	mg/Kg	1		PCB	Total/NA
Barium	0.68	J	0.80	0.16	mg/L	4		6010D	TCLP
Cadmium	0.20		0.080	0.016	mg/L	4		6010D	TCLP
Flashpoint	>202		65.0	65.0	Degrees F	1		D92	Total/NA

This Detection Summary does not include radiochemical test results.

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

Job ID: 240-208854-1

Client Sample ID: MCSF-080224-001

Date Collected: 08/02/24 12:30
Date Received: 08/05/24 09:30

Lab Sample ID: 240-208854-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.9	0.76	ug/L		08/16/24 13:58	08/16/24 22:52	1
PCB-1221	ND		1.9	0.76	ug/L		08/16/24 13:58	08/16/24 22:52	1
PCB-1232	ND		1.9	0.76	ug/L		08/16/24 13:58	08/16/24 22:52	1
PCB-1242	ND		1.9	0.76	ug/L		08/16/24 13:58	08/16/24 22:52	1
PCB-1248	ND		1.9	0.64	ug/L		08/16/24 13:58	08/16/24 22:52	1
PCB-1254	ND		1.9	0.64	ug/L		08/16/24 13:58	08/16/24 22:52	1
PCB-1260	ND		1.9	0.64	ug/L		08/16/24 13:58	08/16/24 22:52	1
PCB-1268	ND		1.9	0.64	ug/L		08/16/24 13:58	08/16/24 22:52	1
Polychlorinated biphenyls, Total	ND		1.9	0.76	ug/L		08/16/24 13:58	08/16/24 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*11 - 122*	*08/16/24 13:58*	*08/16/24 22:52*	*1*
Tetrachloro-m-xylene	*96*		*23 - 123*	*08/16/24 13:58*	*08/16/24 22:52*	*1*

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PCBs	**77**		18	2.0	mg/Kg			08/08/24 16:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.40	0.12	mg/L		08/15/24 08:45	08/19/24 13:35	4
Barium	**0.68**	**J**	0.80	0.16	mg/L		08/15/24 08:45	08/19/24 13:35	4
Cadmium	**0.20**		0.080	0.016	mg/L		08/15/24 08:45	08/19/24 13:35	4
Chromium	ND		0.080	0.024	mg/L		08/15/24 08:45	08/19/24 13:35	4
Lead	ND		0.40	0.15	mg/L		08/15/24 08:45	08/19/24 13:35	4
Selenium	ND		0.40	0.12	mg/L		08/15/24 08:45	08/19/24 13:35	4
Silver	ND		0.20	0.064	mg/L		08/15/24 08:45	08/19/24 13:35	4

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0011	mg/L		08/16/24 15:47	08/19/24 13:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (ASTM D92)	**>202**		65.0	65.0	Degrees F			08/15/24 08:49	1
Percent Moisture (EPA Moisture)	**4.2**		0.1	0.1	%			08/06/24 14:06	1
Percent Solids (EPA Moisture)	**95.8**		0.1	0.1	%			08/06/24 14:06	1

Client Sample Results

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

Job ID: 240-208854-1

Client Sample ID: MCSF-080224-001
Date Collected: 08/02/24 12:30
Date Received: 08/05/24 09:30

Lab Sample ID: 240-208854-1
Matrix: Solid
Percent Solids: 95.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.36	0.0095	mg/Kg	☼	08/07/24 07:10	08/08/24 02:16	1
PCB-1221	ND		0.36	0.098	mg/Kg	☼	08/07/24 07:10	08/08/24 02:16	1
PCB-1232	ND		0.36	0.036	mg/Kg	☼	08/07/24 07:10	08/08/24 02:16	1
PCB-1242	**77**		18	2.0	mg/Kg	☼	08/07/24 07:10	08/08/24 16:21	50
PCB-1248	ND		0.36	0.025	mg/Kg	☼	08/07/24 07:10	08/08/24 02:16	1
PCB-1254	ND		0.36	0.023	mg/Kg	☼	08/07/24 07:10	08/08/24 02:16	1
PCB-1260	ND		0.36	0.012	mg/Kg	☼	08/07/24 07:10	08/08/24 02:16	1
PCB-1268	ND		0.36	0.0051	mg/Kg	☼	08/07/24 07:10	08/08/24 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*10 - 149*	*08/07/24 07:10*	*08/08/24 02:16*	*1*
Tetrachloro-m-xylene	*54*		*10 - 147*	*08/07/24 07:10*	*08/08/24 02:16*	*1*

Surrogate Summary

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

Job ID: 240-208854-1

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	(10-149)	(10-147)								
240-208854-1	MCSF-080224-001	67	54								
LCS 310-429607/2-A	Lab Control Sample	98	90								
LCSD 310-429607/3-A	Lab Control Sample Dup	96	89								
MB 310-429607/1-A	Method Blank	98	87								

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	(11-122)	(23-123)								
240-208854-1	MCSF-080224-001	84	96								
LCS 310-430289/2-E	Lab Control Sample	84	78								

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

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

Lab Sample ID: MB 310-429607/1-A
Matrix: Solid
Analysis Batch: 429638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 429607

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.025	0.00064	mg/Kg		08/07/24 07:10	08/08/24 00:24	1
PCB-1221	ND		0.025	0.0066	mg/Kg		08/07/24 07:10	08/08/24 00:24	1
PCB-1232	ND		0.025	0.0025	mg/Kg		08/07/24 07:10	08/08/24 00:24	1
PCB-1242	ND		0.025	0.0027	mg/Kg		08/07/24 07:10	08/08/24 00:24	1
PCB-1248	ND		0.025	0.0017	mg/Kg		08/07/24 07:10	08/08/24 00:24	1
PCB-1254	ND		0.025	0.0016	mg/Kg		08/07/24 07:10	08/08/24 00:24	1
PCB-1260	ND		0.025	0.00084	mg/Kg		08/07/24 07:10	08/08/24 00:24	1
PCB-1268	ND		0.025	0.00035	mg/Kg		08/07/24 07:10	08/08/24 00:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*98*		*10 - 149*	*08/07/24 07:10*	*08/08/24 00:24*	*1*
Tetrachloro-m-xylene	*87*		*10 - 147*	*08/07/24 07:10*	*08/08/24 00:24*	*1*

Lab Sample ID: LCS 310-429607/2-A
Matrix: Solid
Analysis Batch: 429638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 429607

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.194	0.157		mg/Kg		81	33 - 129		
PCB-1260			0.194	0.172		mg/Kg		89	39 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*98*		*10 - 149*
Tetrachloro-m-xylene	*90*		*10 - 147*

Lab Sample ID: LCSD 310-429607/3-A
Matrix: Solid
Analysis Batch: 429638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 429607

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.200	0.171		mg/Kg		86	33 - 129	8	39
PCB-1260			0.200	0.181		mg/Kg		91	39 - 133	5	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*96*		*10 - 149*
Tetrachloro-m-xylene	*89*		*10 - 147*

Lab Sample ID: LB 310-430289/1-E
Matrix: Solid
Analysis Batch: 430568

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 430654

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.8	0.73	ug/L		08/16/24 13:58	08/16/24 20:41	1
PCB-1221	ND		1.8	0.73	ug/L		08/16/24 13:58	08/16/24 20:41	1
Polychlorinated biphenyls, Total	ND		1.8	0.73	ug/L		08/16/24 13:58	08/16/24 20:41	1
PCB-1232	ND		1.8	0.73	ug/L		08/16/24 13:58	08/16/24 20:41	1
PCB-1242	ND		1.8	0.73	ug/L		08/16/24 13:58	08/16/24 20:41	1
PCB-1248	ND		1.8	0.61	ug/L		08/16/24 13:58	08/16/24 20:41	1

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

Lab Sample ID: LB 310-430289/1-E
Matrix: Solid
Analysis Batch: 430568

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 430654

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		1.8	0.61	ug/L		08/16/24 13:58	08/16/24 20:41	1
PCB-1260	ND		1.8	0.61	ug/L		08/16/24 13:58	08/16/24 20:41	1
PCB-1268	ND		1.8	0.61	ug/L		08/16/24 13:58	08/16/24 20:41	1

Lab Sample ID: LCS 310-430289/2-E
Matrix: Solid
Analysis Batch: 430568

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 430654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	26.5	23.7		ug/L		89	30 - 133
PCB-1260	26.5	23.5		ug/L		89	31 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*84*		*11 - 122*
Tetrachloro-m-xylene	*78*		*23 - 123*

Method: 6010D - Metals (ICP)

Lab Sample ID: LB 310-430289/1-C
Matrix: Solid
Analysis Batch: 430805

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 430367

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.10	0.030	mg/L		08/15/24 08:45	08/19/24 12:23	1
Barium	ND		0.20	0.040	mg/L		08/15/24 08:45	08/19/24 12:23	1
Cadmium	ND		0.020	0.0039	mg/L		08/15/24 08:45	08/19/24 12:23	1
Chromium	ND		0.020	0.0060	mg/L		08/15/24 08:45	08/19/24 12:23	1
Lead	ND		0.10	0.037	mg/L		08/15/24 08:45	08/19/24 12:23	1
Selenium	ND		0.10	0.029	mg/L		08/15/24 08:45	08/19/24 12:23	1
Silver	ND		0.050	0.016	mg/L		08/15/24 08:45	08/19/24 12:23	1

Lab Sample ID: LCS 310-430289/2-C
Matrix: Solid
Analysis Batch: 430805

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 430367

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	4.00	4.12		mg/L		103	80 - 120
Barium	2.00	2.02		mg/L		101	80 - 120
Cadmium	2.00	1.93		mg/L		97	80 - 120
Chromium	2.00	2.00		mg/L		100	80 - 120
Lead	4.00	3.86		mg/L		96	80 - 120
Selenium	8.00	8.19		mg/L		102	80 - 120
Silver	2.00	2.09		mg/L		104	80 - 120

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

Job ID: 240-208854-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 310-430289/1-D
Matrix: Solid
Analysis Batch: 430796

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 430642

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0011	mg/L		08/16/24 15:47	08/19/24 13:12	1

Lab Sample ID: LCS 310-430289/2-D
Matrix: Solid
Analysis Batch: 430796

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 430642

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0167	0.0179		mg/L		107	80 - 120

GC Semi VOA

Prep Batch: 429607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208854-1	MCSF-080224-001	Total/NA	Solid	3550B	
MB 310-429607/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-429607/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 310-429607/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	

Analysis Batch: 429638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208854-1	MCSF-080224-001	Total/NA	Solid	8082A	429607
MB 310-429607/1-A	Method Blank	Total/NA	Solid	8082A	429607
LCS 310-429607/2-A	Lab Control Sample	Total/NA	Solid	8082A	429607
LCSD 310-429607/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	429607

Analysis Batch: 429766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208854-1	MCSF-080224-001	Total/NA	Solid	8082A	429607

Analysis Batch: 430225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208854-1	MCSF-080224-001	Total/NA	Solid	PCB	

Leach Batch: 430289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208854-1	MCSF-080224-001	TCLP	Solid	1311	
LB 310-430289/1-E	Method Blank	TCLP	Solid	1311	
LCS 310-430289/2-E	Lab Control Sample	TCLP	Solid	1311	

Analysis Batch: 430568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208854-1	MCSF-080224-001	TCLP	Solid	8082A	430654
LB 310-430289/1-E	Method Blank	TCLP	Solid	8082A	430654
LCS 310-430289/2-E	Lab Control Sample	TCLP	Solid	8082A	430654

Prep Batch: 430654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208854-1	MCSF-080224-001	TCLP	Solid	3511	430289
LB 310-430289/1-E	Method Blank	TCLP	Solid	3511	430289
LCS 310-430289/2-E	Lab Control Sample	TCLP	Solid	3511	430289

Metals

Leach Batch: 430289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208854-1	MCSF-080224-001	TCLP	Solid	1311	
LB 310-430289/1-C	Method Blank	TCLP	Solid	1311	
LB 310-430289/1-D	Method Blank	TCLP	Solid	1311	
LCS 310-430289/2-C	Lab Control Sample	TCLP	Solid	1311	
LCS 310-430289/2-D	Lab Control Sample	TCLP	Solid	1311	

Prep Batch: 430367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208854-1	MCSF-080224-001	TCLP	Solid	3010A	430289

Metals (Continued)

Prep Batch: 430367 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 310-430289/1-C	Method Blank	TCLP	Solid	3010A	430289
LCS 310-430289/2-C	Lab Control Sample	TCLP	Solid	3010A	430289

Prep Batch: 430642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208854-1	MCSF-080224-001	TCLP	Solid	7470A	430289
LB 310-430289/1-D	Method Blank	TCLP	Solid	7470A	430289
LCS 310-430289/2-D	Lab Control Sample	TCLP	Solid	7470A	430289

Analysis Batch: 430796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208854-1	MCSF-080224-001	TCLP	Solid	7470A	430642
LB 310-430289/1-D	Method Blank	TCLP	Solid	7470A	430642
LCS 310-430289/2-D	Lab Control Sample	TCLP	Solid	7470A	430642

Analysis Batch: 430805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208854-1	MCSF-080224-001	TCLP	Solid	6010D	430367
LB 310-430289/1-C	Method Blank	TCLP	Solid	6010D	430367
LCS 310-430289/2-C	Lab Control Sample	TCLP	Solid	6010D	430367

General Chemistry

Analysis Batch: 429569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208854-1	MCSF-080224-001	Total/NA	Solid	Moisture	

Analysis Batch: 430562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208854-1	MCSF-080224-001	Total/NA	Solid	D92	

Lab Chronicle

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

Job ID: 240-208854-1

Client Sample ID: MCSF-080224-001

Date Collected: 08/02/24 12:30
Date Received: 08/05/24 09:30

Lab Sample ID: 240-208854-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			430289	RFW8	EET CF	08/13/24 15:50 - 08/14/24 07:50 [1]
TCLP	Prep	3511			430654	BW2O	EET CF	08/16/24 13:58
TCLP	Analysis	8082A		1	430568	BW2O	EET CF	08/16/24 22:52
Total/NA	Analysis	PCB		1	430225	BW2O	EET CF	08/08/24 16:21
TCLP	Leach	1311			430289	RFW8	EET CF	08/13/24 15:50 - 08/14/24 07:50 [1]
TCLP	Prep	3010A			430367	DHM5	EET CF	08/15/24 08:45
TCLP	Analysis	6010D		4	430805	ZRI4	EET CF	08/19/24 13:35
TCLP	Leach	1311			430289	RFW8	EET CF	08/13/24 15:50 - 08/14/24 07:50 [1]
TCLP	Prep	7470A			430642	DHM5	EET CF	08/16/24 15:47
TCLP	Analysis	7470A		1	430796	DHM5	EET CF	08/19/24 13:23
Total/NA	Analysis	D92		1	430562	WZC8	EET CF	08/15/24 08:49
Total/NA	Analysis	Moisture		1	429569	T5AC	EET CF	08/06/24 14:06

Client Sample ID: MCSF-080224-001

Date Collected: 08/02/24 12:30
Date Received: 08/05/24 09:30

Lab Sample ID: 240-208854-1

Matrix: Solid
Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550B			429607	D0DG	EET CF	08/07/24 07:10
Total/NA	Analysis	8082A		1	429638	BW2O	EET CF	08/08/24 02:16
Total/NA	Prep	3550B			429607	D0DG	EET CF	08/07/24 07:10
Total/NA	Analysis	8082A		50	429766	BW2O	EET CF	08/08/24 16:21

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone (330) 497-9396 Phone (330) 497-0772

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Charles Ring	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No:
Client Contact: Charles Ring	Phone: 248-227-5171	E-Mail: Denise.Heckler@et.eurofinsus.com	State of Origin:	Page: 1 of 1
Company: CJF Associates	PWSID:			Job #:
Address: 23210 Greater Mack Ave #174	Due Date Requested:			
City: St Clair Shores	TAT Requested (days):			
State, Zip: Michigan 48080	Compliance Project: Δ Yes Δ No			
Phone: 248-227-5171	PO #: 1218-01			
Email: cring@cjfassociates.com	WO #:			
Project Name: Alter - MC	Project #:			
Site: Mason City, Iowa	SSOW#:			

Analysis Requested

Sample Identification	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)	Total PCBs	TCLP PCBs	TCLP RCRA Metals	Ignitability	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
MCSF-080224-001	8/2/24	12:30	C	S			x	x	x	x		
MCSF-080224-003 DUP	8/2/24	12:30	C	S								Hold

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, Y - Trizma, Z - other (specify)
Other:

240-208854 Chain of Custody

Possible Hazard Identification
☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: **Needs Iowa Certified Lab**

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 8-2-24 4:00 PM	Company: CJF	Received by: MALISSA LOAR
Relinquished by:	Date/Time:	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Date/Time: 8-5-24 9:30	Company
Date/Time:	Company
Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins - Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client CTI NASCO Site Name

Cooler Received on 8-5-24 Opened on 8-5-24

Cooler unpacked by: MALISSA LOAR

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

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

Eurofins Cooler # 2 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 # 22 (CF -0.1 °C) Observed Cooler Temp. 21.4 °C Corrected Cooler Temp. 21.3 °C

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

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

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# HC442471
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

Contacted PM Date by via Verbal Voice Mail Other

Concerning

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

Samples processed by:

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container.

Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.

Time preserved: Preservative(s) added/Lot number(s):

VOA Sample Preservation - Date/Time VOAs Frozen:

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservation Added	Preservation Lot Number
MCSF-080224-001	240-208854-A-1	Soil jar 4oz - clear glass				
MCSF-080224-001	240-208854-B-1	Soil jar 16oz - clear glass				
MCSF-080224-001	240-208854-C-1	Soil jar 16oz - clear glass				
MCSF-080224-001	240-208854-D-1	Soil jar 16oz - clear glass				
MCSF-080224-001	240-208854-E-1	Soil jar 16oz - clear glass				
MCSF-080224-001	240-208854-F-1	Soil jar 16oz - clear glass				
MCSF-080224-003 DUP	240-208854-A-2	Soil jar 4oz - clear glass				
MCSF-080224-003 DUP	240-208854-B-2	Soil jar 16oz - clear glass				
MCSF-080224-003 DUP	240-208854-C-2	Soil jar 16oz - clear glass				
MCSF-080224-003 DUP	240-208854-D-2	Soil jar 16oz - clear glass				

Login Sample Receipt Checklist

Client: CJF Associates, LLC

Job Number: 240-208854-1

Login Number: 208854
List Number: 2
Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls
List Creation: 08/06/24 09:47 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	

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/23/2024 5:13:38 PM

JOB DESCRIPTION

Mason City, Iowa, 1218-01

JOB NUMBER

240-210428-1

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton OH 44203

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

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9/23/2024 5:13:38 PM

Authorized for release by
Denise Heckler, Project Manager II
Denise.Heckler@et.eurofinsus.com
(330)966-9477

Table of Contents

Definitions/Glossary

Client: CJF Associates, LLC
Job ID: 240-210428-1
Project/Site: Mason City, Iowa, 1218-01

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
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

Job Narrative
240-210428-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 8/30/2024 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

PCBs
Method 8082A: The following sample was diluted due to the nature of the sample matrix: MCSF-082924-002 (240-210428-1). Elevated reporting limits (RLs) are provided.

Method 8082A - TCLP: The surrogate recovery for the blank associated with preparation batch 310-432796 and 310-433258 and analytical batch 310-433252 was outside the control limits.

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

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

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

Method Summary

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

Job ID: 240-210428-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
PCB	Total PCB Calculation	TAL SOP	EET CF
6010D	Metals (ICP)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
D92	Flashpoint	ASTM	EET CF
Moisture	Percent Moisture	EPA	EET CF
1311	TCLP Extraction	SW846	EET CF
3010A	Preparation, Total Metals	SW846	EET CF
3511	Microextraction of Organic Compounds	SW846	EET CF
3550B	Ultrasonic Extraction	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: CJF Associates, LLC
Job ID: 240-210428-1
Project/Site: Mason City, Iowa, 1218-01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-210428-1	MCSF-082924-002	Solid	08/29/24 15:00	08/30/24 09:30
240-210428-2	MCSF-082924-002 DUP	Solid	08/29/24 15:00	08/30/24 09:30

Detection Summary

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

Job ID: 240-210428-1

Client Sample ID: MCSF-082924-002 — Lab Sample ID: 240-210428-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	2.9		0.90	0.097	mg/Kg	10	☼	8082A	Total/NA
PCB-1254	2.9		0.90	0.057	mg/Kg	10	☼	8082A	Total/NA
Total PCBs	5.8		0.90	0.24	mg/Kg	1		PCB	Total/NA
Barium	0.78	J	0.80	0.16	mg/L	4		6010D	TCLP
Cadmium	0.18		0.080	0.016	mg/L	4		6010D	TCLP
Lead	0.17	J	0.40	0.15	mg/L	4		6010D	TCLP
Flashpoint	>201		65.0	65.0	Degrees F	1		D92	Total/NA

Client Sample ID: MCSF-082924-002 DUP — Lab Sample ID: 240-210428-2

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 240-210428-1

Client Sample ID: MCSF-082924-002
Date Collected: 08/29/24 15:00
Date Received: 08/30/24 09:30

Lab Sample ID: 240-210428-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.9	0.76	ug/L		09/16/24 13:12	09/16/24 21:23	1
PCB-1221	ND		1.9	0.76	ug/L		09/16/24 13:12	09/16/24 21:23	1
PCB-1232	ND		1.9	0.76	ug/L		09/16/24 13:12	09/16/24 21:23	1
PCB-1242	ND		1.9	0.76	ug/L		09/16/24 13:12	09/16/24 21:23	1
PCB-1248	ND		1.9	0.64	ug/L		09/16/24 13:12	09/16/24 21:23	1
PCB-1254	ND		1.9	0.64	ug/L		09/16/24 13:12	09/16/24 21:23	1
PCB-1260	ND		1.9	0.64	ug/L		09/16/24 13:12	09/16/24 21:23	1
PCB-1268	ND		1.9	0.64	ug/L		09/16/24 13:12	09/16/24 21:23	1
Polychlorinated biphenyls, Total	ND		1.9	0.76	ug/L		09/16/24 13:12	09/16/24 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*14*		*11 - 122*	*09/16/24 13:12*	*09/16/24 21:23*	*1*
Tetrachloro-m-xylene	*17*	*S1-*	*23 - 123*	*09/16/24 13:12*	*09/16/24 21:23*	*1*

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PCBs	**5.8**		0.90	0.24	mg/Kg			09/23/24 15:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.40	0.12	mg/L		09/12/24 09:30	09/13/24 10:53	4
Barium	**0.78**	**J**	0.80	0.16	mg/L		09/12/24 09:30	09/13/24 10:53	4
Cadmium	**0.18**		0.080	0.016	mg/L		09/12/24 09:30	09/13/24 10:53	4
Chromium	ND		0.080	0.024	mg/L		09/12/24 09:30	09/13/24 10:53	4
Lead	**0.17**	**J**	0.40	0.15	mg/L		09/12/24 09:30	09/13/24 10:53	4
Selenium	ND		0.40	0.12	mg/L		09/12/24 09:30	09/13/24 10:53	4
Silver	ND		0.20	0.064	mg/L		09/12/24 09:30	09/13/24 10:53	4

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0011	mg/L		09/12/24 14:50	09/13/24 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (ASTM D92)	**>201**		65.0	65.0	Degrees F			09/04/24 16:16	1
Percent Moisture (EPA Moisture)	**9.1**		0.1	0.1	%			09/03/24 09:04	1
Percent Solids (EPA Moisture)	**90.9**		0.1	0.1	%			09/03/24 09:04	1

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

Job ID: 240-210428-1

Client Sample ID: MCSF-082924-002
Date Collected: 08/29/24 15:00
Date Received: 08/30/24 09:30

Lab Sample ID: 240-210428-1
Matrix: Solid
Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.90	0.023	mg/Kg	☼	09/20/24 08:34	09/23/24 15:01	10
PCB-1221	ND		0.90	0.24	mg/Kg	☼	09/20/24 08:34	09/23/24 15:01	10
PCB-1232	ND		0.90	0.090	mg/Kg	☼	09/20/24 08:34	09/23/24 15:01	10
PCB-1242	**2.9**		0.90	0.097	mg/Kg	☼	09/20/24 08:34	09/23/24 15:01	10
PCB-1248	ND		0.90	0.061	mg/Kg	☼	09/20/24 08:34	09/23/24 15:01	10
PCB-1254	**2.9**		0.90	0.057	mg/Kg	☼	09/20/24 08:34	09/23/24 15:01	10
PCB-1260	ND		0.90	0.030	mg/Kg	☼	09/20/24 08:34	09/23/24 15:01	10
PCB-1268	ND		0.90	0.013	mg/Kg	☼	09/20/24 08:34	09/23/24 15:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*50*		*10 - 149*	*09/20/24 08:34*	*09/23/24 15:01*	*10*
Tetrachloro-m-xylene	*47*		*10 - 147*	*09/20/24 08:34*	*09/23/24 15:01*	*10*

Client Sample Results

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

Job ID: 240-210428-1

Client Sample ID: MCSF-082924-002 DUP
Date Collected: 08/29/24 15:00
Date Received: 08/30/24 09:30

Lab Sample ID: 240-210428-2
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.1		0.1	0.1	%			09/03/24 09:04	1
Percent Solids (EPA Moisture)	92.9		0.1	0.1	%			09/03/24 09:04	1

Surrogate Summary

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

Job ID: 240-210428-1

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	(10-149)	(10-147)										
240-210428-1	MCSF-082924-002	50	47										
LCS 310-433775/2-A	Lab Control Sample	89	76										
MB 310-433775/1-A	Method Blank	69	54										

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	(11-122)	(23-123)										
LCS 310-433258/4-A	Lab Control Sample	66	38										
MB 310-433258/1-A	Method Blank	53	32										

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)											
		DCB2	TCX2										
Lab Sample ID	Client Sample ID	(11-122)	(23-123)										
240-210428-1	MCSF-082924-002	14	17 S1-										
240-210428-1 MS	MCSF-082924-002	59	29										
240-210428-1 MSD	MCSF-082924-002	61	34										
LB 310-432796/1-E	Method Blank	51	22 S1-										

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

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

Lab Sample ID: MB 310-433258/1-A
Matrix: Solid
Analysis Batch: 433252

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 433258

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.9	0.80	ug/L		09/16/24 09:44	09/16/24 16:29	1
PCB-1221	ND		1.9	0.80	ug/L		09/16/24 09:44	09/16/24 16:29	1
Polychlorinated biphenyls, Total	ND		1.9	0.80	ug/L		09/16/24 09:44	09/16/24 16:29	1
PCB-1232	ND		1.9	0.80	ug/L		09/16/24 09:44	09/16/24 16:29	1
PCB-1242	ND		1.9	0.80	ug/L		09/16/24 09:44	09/16/24 16:29	1
PCB-1248	ND		1.9	0.67	ug/L		09/16/24 09:44	09/16/24 16:29	1
PCB-1254	ND		1.9	0.67	ug/L		09/16/24 09:44	09/16/24 16:29	1
PCB-1260	ND		1.9	0.67	ug/L		09/16/24 09:44	09/16/24 16:29	1
PCB-1268	ND		1.9	0.67	ug/L		09/16/24 09:44	09/16/24 16:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*53*		*11 - 122*	*09/16/24 09:44*	*09/16/24 16:29*	*1*
Tetrachloro-m-xylene	*32*		*23 - 123*	*09/16/24 09:44*	*09/16/24 16:29*	*1*

Lab Sample ID: LCS 310-433258/4-A
Matrix: Solid
Analysis Batch: 433252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 433258

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			27.6	19.0		ug/L		69	30 - 133		
PCB-1260			27.6	23.7		ug/L		86	31 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*66*		*11 - 122*
Tetrachloro-m-xylene	*38*		*23 - 123*

Lab Sample ID: MB 310-433775/1-A
Matrix: Solid
Analysis Batch: 433927

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 433775

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.020	0.00053	mg/Kg		09/20/24 08:34	09/23/24 12:41	1
PCB-1221	ND		0.020	0.0054	mg/Kg		09/20/24 08:34	09/23/24 12:41	1
PCB-1232	ND		0.020	0.0020	mg/Kg		09/20/24 08:34	09/23/24 12:41	1
PCB-1242	ND		0.020	0.0022	mg/Kg		09/20/24 08:34	09/23/24 12:41	1
PCB-1248	ND		0.020	0.0014	mg/Kg		09/20/24 08:34	09/23/24 12:41	1
PCB-1254	ND		0.020	0.0013	mg/Kg		09/20/24 08:34	09/23/24 12:41	1
PCB-1260	ND		0.020	0.00069	mg/Kg		09/20/24 08:34	09/23/24 12:41	1
PCB-1268	ND		0.020	0.00028	mg/Kg		09/20/24 08:34	09/23/24 12:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*10 - 149*	*09/20/24 08:34*	*09/23/24 12:41*	*1*
Tetrachloro-m-xylene	*54*		*10 - 147*	*09/20/24 08:34*	*09/23/24 12:41*	*1*

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

Lab Sample ID: LCS 310-433775/2-A
Matrix: Solid
Analysis Batch: 433927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 433775

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.162	0.126		mg/Kg		78	33 - 129		
PCB-1260			0.162	0.129		mg/Kg		79	39 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*89*		*10 - 149*
Tetrachloro-m-xylene	*76*		*10 - 147*

Lab Sample ID: LB 310-432796/1-E
Matrix: Solid
Analysis Batch: 433252

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 433258

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.9	0.77	ug/L		09/16/24 09:44	09/16/24 16:46	1
PCB-1221	ND		1.9	0.77	ug/L		09/16/24 09:44	09/16/24 16:46	1
Polychlorinated biphenyls, Total	ND		1.9	0.77	ug/L		09/16/24 09:44	09/16/24 16:46	1
PCB-1232	ND		1.9	0.77	ug/L		09/16/24 09:44	09/16/24 16:46	1
PCB-1242	ND		1.9	0.77	ug/L		09/16/24 09:44	09/16/24 16:46	1
PCB-1248	ND		1.9	0.64	ug/L		09/16/24 09:44	09/16/24 16:46	1
PCB-1254	ND		1.9	0.64	ug/L		09/16/24 09:44	09/16/24 16:46	1
PCB-1260	ND		1.9	0.64	ug/L		09/16/24 09:44	09/16/24 16:46	1
PCB-1268	ND		1.9	0.64	ug/L		09/16/24 09:44	09/16/24 16:46	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*51*		*11 - 122*	*09/16/24 09:44*	*09/16/24 16:46*	*1*
Tetrachloro-m-xylene	*22*	*S1-*	*23 - 123*	*09/16/24 09:44*	*09/16/24 16:46*	*1*

Lab Sample ID: 240-210428-1 MS
Matrix: Solid
Analysis Batch: 433252

Client Sample ID: MCSF-082924-002
Prep Type: TCLP
Prep Batch: 433258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016	ND		26.4	14.5		ug/L		55	30 - 133		
PCB-1260	ND		26.4	20.7		ug/L		78	31 - 133		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*59*		*11 - 122*
Tetrachloro-m-xylene	*29*		*23 - 123*

Lab Sample ID: 240-210428-1 MSD
Matrix: Solid
Analysis Batch: 433252

Client Sample ID: MCSF-082924-002
Prep Type: TCLP
Prep Batch: 433258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		26.5	13.4		ug/L		51	30 - 133	8	35
PCB-1260	ND		26.5	17.9		ug/L		67	31 - 133	15	35

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

Lab Sample ID: 240-210428-1 MSD
Matrix: Solid
Analysis Batch: 433252

Client Sample ID: MCSF-082924-002
Prep Type: TCLP
Prep Batch: 433258

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*61*		*11 - 122*
Tetrachloro-m-xylene	*34*		*23 - 123*

Method: 6010D - Metals (ICP)

Lab Sample ID: LB 310-432796/1-B
Matrix: Solid
Analysis Batch: 433129

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 432853

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.10	0.030	mg/L		09/12/24 09:30	09/13/24 09:59	1
Barium	ND		0.20	0.040	mg/L		09/12/24 09:30	09/13/24 09:59	1
Cadmium	ND		0.020	0.0039	mg/L		09/12/24 09:30	09/13/24 09:59	1
Chromium	0.00679	J	0.020	0.0060	mg/L		09/12/24 09:30	09/13/24 09:59	1
Lead	ND		0.10	0.037	mg/L		09/12/24 09:30	09/13/24 09:59	1
Selenium	ND		0.10	0.029	mg/L		09/12/24 09:30	09/13/24 09:59	1
Silver	ND		0.050	0.016	mg/L		09/12/24 09:30	09/13/24 09:59	1

Lab Sample ID: LCS 310-432796/2-B
Matrix: Solid
Analysis Batch: 433129

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 432853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	4.00	4.03		mg/L		101	80 - 120
Barium	2.00	1.90		mg/L		95	80 - 120
Cadmium	2.00	1.90		mg/L		95	80 - 120
Chromium	2.00	1.93		mg/L		97	80 - 120
Lead	4.00	3.77		mg/L		94	80 - 120
Selenium	8.00	7.94		mg/L		99	80 - 120
Silver	2.00	1.88		mg/L		94	80 - 120

Lab Sample ID: 240-210428-1 MS
Matrix: Solid
Analysis Batch: 433129

Client Sample ID: MCSF-082924-002
Prep Type: TCLP
Prep Batch: 432853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		4.00	3.83		mg/L		96	75 - 125
Barium	0.78	J	2.00	2.60		mg/L		91	75 - 125
Cadmium	0.18		2.00	2.00		mg/L		91	75 - 125
Chromium	ND		2.00	1.85		mg/L		92	75 - 125
Lead	0.17	J	4.00	3.73		mg/L		89	75 - 125
Selenium	ND		8.00	7.48		mg/L		94	75 - 125
Silver	ND		2.00	1.64		mg/L		82	75 - 125

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

Job ID: 240-210428-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 310-432796/1-C
Matrix: Solid
Analysis Batch: 433190

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 432892

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0011	mg/L		09/12/24 14:50	09/13/24 14:58	1

Lab Sample ID: LCS 310-432796/2-C
Matrix: Solid
Analysis Batch: 433190

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 432892

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.0167	0.0146		mg/L		88	80 - 120		

Lab Sample ID: 240-210428-1 MS
Matrix: Solid
Analysis Batch: 433190

Client Sample ID: MCSF-082924-002
Prep Type: TCLP
Prep Batch: 432892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		0.0167	0.0153		mg/L		92	80 - 120		

GC Semi VOA

Analysis Batch: 432366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-210428-1	MCSF-082924-002	Total/NA	Solid	PCB	

Leach Batch: 432796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-210428-1	MCSF-082924-002	TCLP	Solid	1311	
LB 310-432796/1-E	Method Blank	TCLP	Solid	1311	
240-210428-1 MS	MCSF-082924-002	TCLP	Solid	1311	
240-210428-1 MSD	MCSF-082924-002	TCLP	Solid	1311	

Analysis Batch: 433252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-210428-1	MCSF-082924-002	TCLP	Solid	8082A	433258
LB 310-432796/1-E	Method Blank	TCLP	Solid	8082A	433258
MB 310-433258/1-A	Method Blank	Total/NA	Solid	8082A	433258
LCS 310-433258/4-A	Lab Control Sample	Total/NA	Solid	8082A	433258
240-210428-1 MS	MCSF-082924-002	TCLP	Solid	8082A	433258
240-210428-1 MSD	MCSF-082924-002	TCLP	Solid	8082A	433258

Prep Batch: 433258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-210428-1	MCSF-082924-002	TCLP	Solid	3511	432796
LB 310-432796/1-E	Method Blank	TCLP	Solid	3511	432796
MB 310-433258/1-A	Method Blank	Total/NA	Solid	3511	
LCS 310-433258/4-A	Lab Control Sample	Total/NA	Solid	3511	
240-210428-1 MS	MCSF-082924-002	TCLP	Solid	3511	432796
240-210428-1 MSD	MCSF-082924-002	TCLP	Solid	3511	432796

Prep Batch: 433775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-210428-1	MCSF-082924-002	Total/NA	Solid	3550B	
MB 310-433775/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-433775/2-A	Lab Control Sample	Total/NA	Solid	3550B	

Analysis Batch: 433927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-210428-1	MCSF-082924-002	Total/NA	Solid	8082A	433775
MB 310-433775/1-A	Method Blank	Total/NA	Solid	8082A	433775
LCS 310-433775/2-A	Lab Control Sample	Total/NA	Solid	8082A	433775

Metals

Leach Batch: 432796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-210428-1	MCSF-082924-002	TCLP	Solid	1311	
LB 310-432796/1-B	Method Blank	TCLP	Solid	1311	
LB 310-432796/1-C	Method Blank	TCLP	Solid	1311	
LCS 310-432796/2-B	Lab Control Sample	TCLP	Solid	1311	
LCS 310-432796/2-C	Lab Control Sample	TCLP	Solid	1311	
240-210428-1 MS	MCSF-082924-002	TCLP	Solid	1311	

QC Association Summary

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

Job ID: 240-210428-1

Metals

Prep Batch: 432853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-210428-1	MCSF-082924-002	TCLP	Solid	3010A	432796
LB 310-432796/1-B	Method Blank	TCLP	Solid	3010A	432796
LCS 310-432796/2-B	Lab Control Sample	TCLP	Solid	3010A	432796
240-210428-1 MS	MCSF-082924-002	TCLP	Solid	3010A	432796

Prep Batch: 432892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-210428-1	MCSF-082924-002	TCLP	Solid	7470A	432796
LB 310-432796/1-C	Method Blank	TCLP	Solid	7470A	432796
LCS 310-432796/2-C	Lab Control Sample	TCLP	Solid	7470A	432796
240-210428-1 MS	MCSF-082924-002	TCLP	Solid	7470A	432796

Analysis Batch: 433129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-210428-1	MCSF-082924-002	TCLP	Solid	6010D	432853
LB 310-432796/1-B	Method Blank	TCLP	Solid	6010D	432853
LCS 310-432796/2-B	Lab Control Sample	TCLP	Solid	6010D	432853
240-210428-1 MS	MCSF-082924-002	TCLP	Solid	6010D	432853

Analysis Batch: 433190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-210428-1	MCSF-082924-002	TCLP	Solid	7470A	432892
LB 310-432796/1-C	Method Blank	TCLP	Solid	7470A	432892
LCS 310-432796/2-C	Lab Control Sample	TCLP	Solid	7470A	432892
240-210428-1 MS	MCSF-082924-002	TCLP	Solid	7470A	432892

General Chemistry

Analysis Batch: 432020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-210428-1	MCSF-082924-002	Total/NA	Solid	Moisture	
240-210428-2	MCSF-082924-002 DUP	Total/NA	Solid	Moisture	

Analysis Batch: 432231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-210428-1	MCSF-082924-002	Total/NA	Solid	D92	

Lab Chronicle

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

Job ID: 240-210428-1

Client Sample ID: MCSF-082924-002

Lab Sample ID: 240-210428-1

Date Collected: 08/29/24 15:00

Matrix: Solid

Date Received: 08/30/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			432796	U8FK	EET CF	09/10/24 16:29 - 09/11/24 08:29 [1]
TCLP	Prep	3511			433258	BW2O	EET CF	09/16/24 13:12
TCLP	Analysis	8082A		1	433252	BW2O	EET CF	09/16/24 21:23
Total/NA	Analysis	PCB		1	432366	BW2O	EET CF	09/23/24 15:01
TCLP	Leach	1311			432796	U8FK	EET CF	09/10/24 16:29 - 09/11/24 08:29 [1]
TCLP	Prep	3010A			432853	QTZ5	EET CF	09/12/24 09:30
TCLP	Analysis	6010D		4	433129	ZRI4	EET CF	09/13/24 10:53
TCLP	Leach	1311			432796	U8FK	EET CF	09/10/24 16:29 - 09/11/24 08:29 [1]
TCLP	Prep	7470A			432892	DHM5	EET CF	09/12/24 14:50
TCLP	Analysis	7470A		1	433190	DHM5	EET CF	09/13/24 15:07
Total/NA	Analysis	D92		1	432231	WZC8	EET CF	09/04/24 16:16
Total/NA	Analysis	Moisture		1	432020	W9YR	EET CF	09/03/24 09:04

Client Sample ID: MCSF-082924-002

Lab Sample ID: 240-210428-1

Date Collected: 08/29/24 15:00

Matrix: Solid

Date Received: 08/30/24 09:30

Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550B			433775	BDJ4	EET CF	09/20/24 08:34
Total/NA	Analysis	8082A		10	433927	BW2O	EET CF	09/23/24 15:01

Client Sample ID: MCSF-082924-002 DUP

Lab Sample ID: 240-210428-2

Date Collected: 08/29/24 15:00

Matrix: Solid

Date Received: 08/30/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	432020	W9YR	EET CF	09/03/24 09:04

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Accreditation/Certification Summary

Client: CJF Associates, LLC
Job ID: 240-210428-1
Project/Site: Mason City, Iowa, 1218-01

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

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	3511	Solid	PCB-1268
8082A	3511	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 Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone (330) 497-9396 Phone (330) 497-0772

Chain of Custody Record

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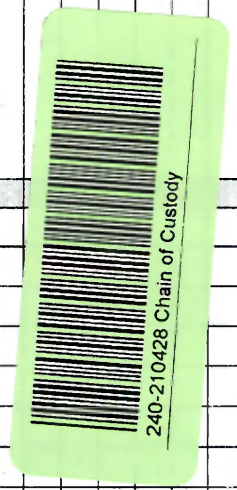
Client Information	Sampler: Charles Ring	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No:
Client Contact: Charles Ring	Phone: 248-227-5171	E-Mail: Denise.Heckler@et.eurofinsus.com	State of Origin:	Page: 1 of 1
Company: CJF Associates	PWSID:	Analysis Requested		Job #:
Address: 23210 Greater Mack Ave #174	Due Date 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, Y - Trizma, Z - other (specify), Other:
City: St Clair Shores	TAT Requested (days): 5-Day			
State, Zip: Michigan 48080	Compliance Project: Δ Yes Δ No			
Phone: 248-227-5171	PO #: 1218-01			
Email: [redacted]@cjfassociates.com	WO #:			
Project Name: Alter MC	Project #: 1218-01			
Site: Mason City, Iowa	SSOW#:			

Sample Identification	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)	Total PCBs	TCLP PCBs	TCLP RCRA Metals	Ignitability	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
MCSF-082924-002	8/29/24	3:00	C	S			x	x	x	x		
MCSF-082924-002 DUP	8/29/24	3:00	C	S								Hold



Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: **Sample is ASR from Iowa, needs Iowa Certification**

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	8-29-24 3:45	CJF	[signature]	8/30/24 9:30am	Euro
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 01/16/2019

9/23/2024

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :** _____
Barberton Facility

Client CJT Site Name _____ Cooler unpacked by: TF

Cooler Received on 8/30/24 Opened on 8/30/24

FedEx. 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours. Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # Euro 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 # 22 (CF -0.1 °C) Observed Cooler Temp. 1.7 °C Corrected Cooler Temp 1.6 °C

2	Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity \	(Yes) No
	-Were the seals on the outside of the cooler(s) signed & dated?	(Yes) No NA
	-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes (No)
	-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# HC442471
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:

_____

_____

_____

_____

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. _____

8/30/2024

Login Container Summary Report

240-210428

9/23/2024

Temperature readings _____

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservation Added	Preservation Lot Number
MCSF-082924-002	240-210428-A-1	Soil jar 4oz - clear glass				
MCSF-082924-002	240-210428-B-1	Soil jar 4oz - clear glass				
MCSF-082924-002	240-210428-C-1	Soil jar 8oz - clear glass				
MCSF-082924-002	240-210428-D-1	Soil jar 8oz - clear glass				
MCSF-082924-002	240-210428-E-1	SnapCap 1/2 ounce unpreserved				
MCSF-082924-002 DUP	240-210428-A-2	Soil jar 4oz - clear glass				
MCSF-082924-002 DUP	240-210428-B-2	Soil jar 4oz - clear glass				
MCSF-082924-002 DUP	240-210428-C-2	Soil jar 8oz - clear glass				
MCSF-082924-002 DUP	240-210428-D-2	Soil jar 8oz - clear glass				
MCSF-082924-002 DUP	240-210428-E-2	SnapCap 1/2 ounce unpreserved				

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240-210428 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Eurofins Worth Central

City/State: CITY Cedar Falls STATE IA Project:

Receipt Information

Date/Time Received: DATE 8/31/24 TIME 1000 Received By: PH

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: R 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): 4.4 Corrected Temp (°C): 4.4

Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

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 Cleveland
180 S Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 240-190017 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Denise.Heckler@et.eurofinsus com	State of Origin: Iowa	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): State - Iowa		Job #: 240-210428-1
Address: 3019 Venture Way, ,	Due Date Requested: 9/9/2024			Preservation Codes: -
City: Cedar Falls	TAT Requested (days):			
State Zip: IA, 50613				
Phone: 319-277-2401(Tel) 319-277-2425(Fax)	PO #:			
Email:	WO #:			
Project Name: Mason City, Iowa, 1218-01	Project #: 24013819			
Site:	SSOW#:			Other:

Analysis Requested

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	D92/ Flashpoint	8082A/3550B_PCB_1YR PCBs	Total_PCB/ Total PCBs	6010D/1311T_M TCLP Metals	8082A/1311_T PCBs						Total Number of containers	Special Instructions/Note:
			Preservation Code:																	
MCSF-082924-002 (240-210428-1)	8/29/24	15 00 Central	G	Solid			X	X	X	X	X	X	X						4	
MCSF-082924-002 DUP (240-210428-2)	8/29/24	15 00 Central	G	Solid			X												4	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central LLC places the ownership of method, analyte & accreditation compliance upon our 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 Environment Testing North Central, LLC laboratory or other instructions will be provided.* Any changes to accreditation status should be brought to *Eurofins Environment Testing North Central, LLC attention immediately* If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central LLC.

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
	MALISSA LOAR	8.30.24		PH	9/3/24 1000	
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seal No: | Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: CJF Associates, LLC

Job Number: 240-210428-1

Login Number: 210428
List Number: 2
Creator: Collins, Charlotte

List Source: Eurofins Cedar Falls
List Creation: 08/31/24 02:55 PM

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?	N/A	
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	