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September 8, 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 - Council Bluffs, Iowa
3rd Quarter 2021 – September 2021

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

Summary

- PCBs concentration this quarter: 13 mg/kg;
- Ten-Sample Rolling PCBs Average: 14.02 mg/kg;
- PCBs 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.

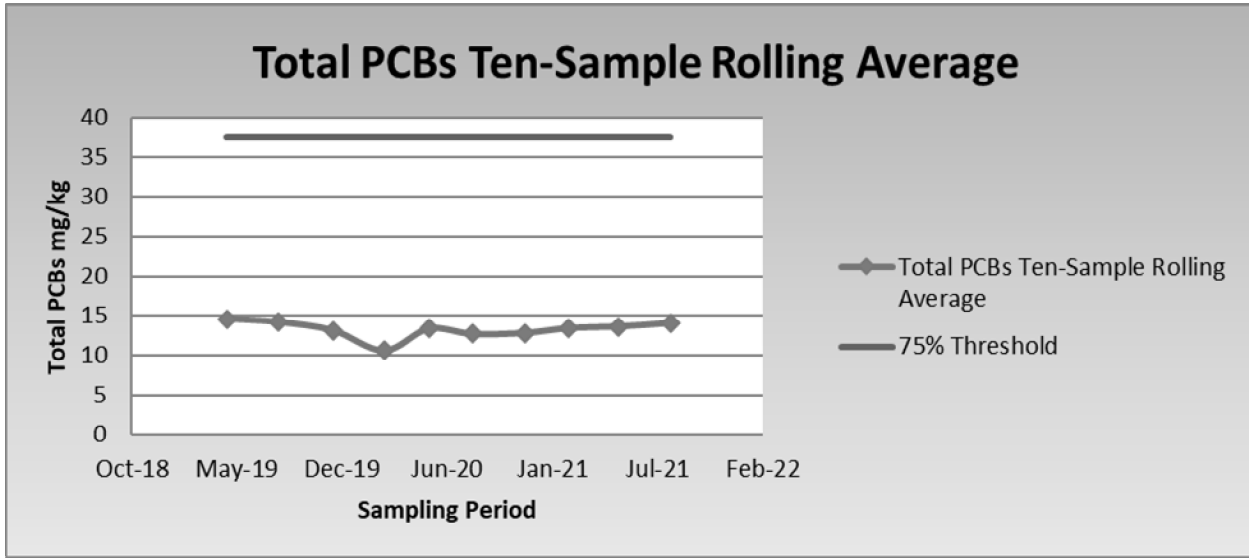
Details

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 12, 2021 through July 21, 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 PCBs results for the sampling period totaled 13 mg/kg. TCLP PCBs were not detected above the laboratory reporting limit. Barium, cadmium, and lead were the only RCRA metals identified above the laboratory reporting limits but below regulatory TCLP concentrations. The reported concentration for lead was identified at 0.56 mg/L which does not exceed the regulatory TCLP concentration of 5.0 mg/L. The present ten-sample rolling average for PCBs is 14.02 mg/kg. Rolling averages of the ten-sampling period results for total PCBs are presented below:



September 8, 2021



Third quarter analytical results are summarized as follows:

| Sample ID | Analyte | | | | | | | | | | Ignitability ² |
|-----------------|-------------------------|-----------|--------------|-------------|----------|------------|-----------|----------|-------------|--------------|---------------------------|
| | Total PCBs ¹ | TCLP PCBs | TCLP Arsenic | TCLP Barium | TCLP Cad | TCLP Chrom | TCLP Lead | TCLP Sel | TCLP Silver | TCLP Mercury | |
| ZCSF-081621-001 | 13 | ND | ND | 0.63 | 0.15 | ND | 0.56 | ND | ND | ND | >215 |

Notes: All TCLP results are reported in mg/L ND = Not Detected Above Laboratory Detection Limits
 (1) Results reported in mg/kg NA = Not Analyzed
 (2) Results reported in degrees Fahrenheit

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

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

Sincerely,
CJF Associates, LLC

Frank W. Ring, P.E.

Encl.
 CC: Ryan Carpenter, Alter
 Herb Handel, Iowa Waste Systems Inc.

ATTACHMENT A

LABORATORY ANALYTICAL RESULTS

ANALYTICAL REPORT

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

Laboratory Job ID: 240-154621-1
Client Project/Site: Council Bluffs, 1216

For:

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

Attn: Charles Ring



*Authorized for release by:
9/8/2021 12:10:11 PM*

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

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

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



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Definitions/Glossary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216

Job ID: 240-154621-1

Qualifiers

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| F2 | MS/MSD RPD 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, high biased. |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| 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. |

Glossary

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

Case Narrative

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216

Job ID: 240-154621-1

Job ID: 240-154621-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-154621-1

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 4.1° 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 following sample was diluted due to the nature of the sample matrix: ZCSF-081621-001 (240-154621-1). Elevated reporting limits (RLs) are provided.

Method 8082A: The laboratory control sample (LCS) for preparation batch 310-327007 and 310-327057 and analytical batch 310-327106 recovered outside control limits for the following analytes: PCB-1016, PCB-1260. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 310-327007 and 310-327057 and analytical batch 310-327106 was outside control limits. Sample matrix interference and/or non-homogeneity is suspected.

Method 8082A: The surrogate recovery for the blank associated with preparation batch 310-327007 and 310-327057 and analytical batch 310-327106 was outside the upper control limits.

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

Metals

Method 6010C: The laboratory control sample (LCS) for preparation batch 310-327000 and 310-327065 and analytical batch 310-327709 recovered outside control limits for the following analytes: Arsenic. These analytes were biased high in the LCS and were not detected in the associated samples; 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.

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 with reduced volume and in plastic due to matrix: ZCSF-081621-001 (240-154621-1).

Method 3550B: The following sample was diluted due to the nature of the sample matrix: ZCSF-081621-001 (240-154621-1). 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: Council Bluffs, 1216

Job ID: 240-154621-1

| 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: Council Bluffs, 1216

Job ID: 240-154621-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 240-154621-1 | ZCSF-081621-001 | Solid | 08/16/21 11:00 | 08/17/21 10:40 |

1

2

3

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12

13

14

15

Detection Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216

Job ID: 240-154621-1

Client Sample ID: ZCSF-081621-001

Lab Sample ID: 240-154621-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------|--------|-----------|------|-------|-----------|---------|---|--------|-----------|
| PCB-1242 | 13 | | 3.0 | 0.33 | mg/Kg | 5 | ✱ | 8082A | Total/NA |
| Total PCBs | 13 | | 3.0 | 0.33 | mg/Kg | 1 | | PCB | Total/NA |
| Barium | 0.63 | J | 2.5 | 0.55 | mg/L | 1 | | 6010C | TCLP |
| Cadmium | 0.15 | | 0.10 | 0.022 | mg/L | 1 | | 6010C | TCLP |
| Lead | 0.56 | | 0.50 | 0.16 | 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.

Eurofins TestAmerica, Canton

Client Sample Results

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216

Job ID: 240-154621-1

Client Sample ID: ZCSF-081621-001

Lab Sample ID: 240-154621-1

Date Collected: 08/16/21 11:00

Matrix: Solid

Date Received: 08/17/21 10:40

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|------------------|------------------|---------------|-----|------|---|-----------------|-----------------|----------------|
| PCB-1016 | ND | *+ F1 F2 | 4.0 | 1.3 | ug/L | | 08/31/21 11:15 | 09/01/21 04:58 | 1 |
| PCB-1221 | ND | | 4.0 | 1.3 | ug/L | | 08/31/21 11:15 | 09/01/21 04:58 | 1 |
| PCB-1232 | ND | | 4.0 | 1.3 | ug/L | | 08/31/21 11:15 | 09/01/21 04:58 | 1 |
| PCB-1242 | ND | | 4.0 | 1.3 | ug/L | | 08/31/21 11:15 | 09/01/21 04:58 | 1 |
| PCB-1248 | ND | | 4.0 | 1.1 | ug/L | | 08/31/21 11:15 | 09/01/21 04:58 | 1 |
| PCB-1254 | ND | | 4.0 | 1.1 | ug/L | | 08/31/21 11:15 | 09/01/21 04:58 | 1 |
| PCB-1260 | ND | *+ F1 | 4.0 | 1.1 | ug/L | | 08/31/21 11:15 | 09/01/21 04:58 | 1 |
| PCB-1268 | ND | | 4.0 | 1.1 | ug/L | | 08/31/21 11:15 | 09/01/21 04:58 | 1 |
| Polychlorinated biphenyls, Total | ND | | 4.0 | 1.3 | ug/L | | 08/31/21 11:15 | 09/01/21 04:58 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | 47 | | 10 - 119 | | | | 08/31/21 11:15 | 09/01/21 04:58 | 1 |
| Tetrachloro-m-xylene | 59 | | 14 - 110 | | | | 08/31/21 11:15 | 09/01/21 04:58 | 1 |

Method: PCB - Total PCB Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|-----------|-----------|-----|------|-------|---|----------|----------------|---------|
| Total PCBs | 13 | | 3.0 | 0.33 | 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 | *+ | 0.50 | 0.25 | mg/L | | 09/01/21 09:00 | 09/07/21 14:16 | 1 |
| Barium | 0.63 | J | 2.5 | 0.55 | mg/L | | 09/01/21 09:00 | 09/07/21 14:16 | 1 |
| Cadmium | 0.15 | | 0.10 | 0.022 | mg/L | | 09/01/21 09:00 | 09/07/21 14:16 | 1 |
| Chromium | ND | | 0.10 | 0.044 | mg/L | | 09/01/21 09:00 | 09/07/21 14:16 | 1 |
| Lead | 0.56 | | 0.50 | 0.16 | mg/L | | 09/01/21 09:00 | 09/07/21 14:16 | 1 |
| Selenium | ND | | 0.50 | 0.32 | mg/L | | 09/01/21 09:00 | 09/07/21 14:16 | 1 |
| Silver | ND | | 0.10 | 0.044 | mg/L | | 09/01/21 09:00 | 09/07/21 14:16 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Mercury | ND | F1 | 0.0020 | 0.0015 | mg/L | | 08/31/21 09:37 | 09/01/21 14:44 | 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 | 9.2 | | 0.1 | 0.1 | % | | | 08/18/21 14:28 | 1 |
| Percent Solids | 90.8 | | 0.1 | 0.1 | % | | | 08/18/21 14:28 | 1 |

Client Sample Results

Client: CJF Associates, LLC
 Project/Site: Council Bluffs, 1216

Job ID: 240-154621-1

Client Sample ID: ZCSF-081621-001

Lab Sample ID: 240-154621-1

Date Collected: 08/16/21 11:00

Matrix: Solid

Date Received: 08/17/21 10:40

Percent Solids: 90.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|------------------|------------------|---------------|--------|-------|---|-----------------|-----------------|----------------|
| PCB-1016 | ND | | 0.61 | 0.016 | mg/Kg | ☼ | 08/19/21 12:56 | 08/25/21 17:46 | 1 |
| PCB-1221 | ND | | 0.61 | 0.16 | mg/Kg | ☼ | 08/19/21 12:56 | 08/25/21 17:46 | 1 |
| PCB-1232 | ND | | 0.61 | 0.061 | mg/Kg | ☼ | 08/19/21 12:56 | 08/25/21 17:46 | 1 |
| PCB-1242 | 13 | | 3.0 | 0.33 | mg/Kg | ☼ | 08/19/21 12:56 | 08/31/21 20:19 | 5 |
| PCB-1248 | ND | | 0.61 | 0.041 | mg/Kg | ☼ | 08/19/21 12:56 | 08/25/21 17:46 | 1 |
| PCB-1254 | ND | | 0.61 | 0.039 | mg/Kg | ☼ | 08/19/21 12:56 | 08/25/21 17:46 | 1 |
| PCB-1260 | ND | | 0.61 | 0.021 | mg/Kg | ☼ | 08/19/21 12:56 | 08/25/21 17:46 | 1 |
| PCB-1268 | ND | | 0.61 | 0.0085 | mg/Kg | ☼ | 08/19/21 12:56 | 08/25/21 17:46 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| <i>DCB Decachlorobiphenyl (Surr)</i> | 62 | | 10 - 136 | | | | 08/19/21 12:56 | 08/25/21 17:46 | 1 |
| <i>Tetrachloro-m-xylene</i> | 47 | | 21 - 110 | | | | 08/19/21 12:56 | 08/25/21 17:46 | 1 |

Surrogate Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216

Job ID: 240-154621-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | DCB2 (10-136) | TCX2 (21-110) |
|---------------------|------------------------|------------------|------------------|
| 240-154621-1 | ZCSF-081621-001 | 62 | 47 |
| 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: TCLP

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | DCB1 (10-119) | TCX1 (14-110) |
|--------------------|--------------------|------------------|------------------|
| 240-154621-1 | ZCSF-081621-001 | 47 | 59 |
| 240-154621-1 MS | ZCSF-081621-001 | 50 | 71 |
| 240-154621-1 MSD | ZCSF-081621-001 | 52 | 81 |
| LB 310-327007/1-C | Method Blank | 511 S1+ | 88 |
| LCS 310-327007/2-C | Lab Control Sample | 94 | 67 |

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216

Job ID: 240-154621-1

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 | 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 | Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|----------|-----|-----------|
| PCB-1016 | 0.198 | 0.159 | | mg/Kg | | 81 | 33 - 113 | 0 | 34 |
| PCB-1260 | 0.198 | 0.167 | | mg/Kg | | 84 | 30 - 111 | 6 | 29 |

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

Lab Sample ID: LB 310-327007/1-C
Matrix: Solid
Analysis Batch: 327106

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 327057

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-----|-----|------|---|----------------|----------------|---------|
| PCB-1016 | ND | | 4.0 | 1.3 | ug/L | | 08/31/21 11:15 | 09/01/21 04:15 | 1 |
| PCB-1221 | ND | | 4.0 | 1.3 | ug/L | | 08/31/21 11:15 | 09/01/21 04:15 | 1 |
| PCB-1232 | ND | | 4.0 | 1.3 | ug/L | | 08/31/21 11:15 | 09/01/21 04:15 | 1 |
| PCB-1242 | ND | | 4.0 | 1.3 | ug/L | | 08/31/21 11:15 | 09/01/21 04:15 | 1 |
| PCB-1248 | ND | | 4.0 | 1.1 | ug/L | | 08/31/21 11:15 | 09/01/21 04:15 | 1 |
| PCB-1254 | ND | | 4.0 | 1.1 | ug/L | | 08/31/21 11:15 | 09/01/21 04:15 | 1 |

Eurofins TestAmerica, Canton

QC Sample Results

Client: CJF Associates, LLC
 Project/Site: Council Bluffs, 1216

Job ID: 240-154621-1

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

Lab Sample ID: LB 310-327007/1-C
Matrix: Solid
Analysis Batch: 327106

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 327057

| Analyte | LB LB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| PCB-1260 | ND | | 4.0 | 1.1 | ug/L | | 08/31/21 11:15 | 09/01/21 04:15 | 1 |
| PCB-1268 | ND | | 4.0 | 1.1 | ug/L | | 08/31/21 11:15 | 09/01/21 04:15 | 1 |
| Polychlorinated biphenyls, Total | ND | | 4.0 | 1.3 | ug/L | | 08/31/21 11:15 | 09/01/21 04:15 | 1 |

| Surrogate | LB LB | | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| DCB Decachlorobiphenyl (Surr) | 511 | S1+ | 10 - 119 | 08/31/21 11:15 | 09/01/21 04:15 | 1 |
| Tetrachloro-m-xylene | 88 | | 14 - 110 | 08/31/21 11:15 | 09/01/21 04:15 | 1 |

Lab Sample ID: LCS 310-327007/2-C
Matrix: Solid
Analysis Batch: 327106

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 327057

| Analyte | Spike Added | LCS LCS | | Unit | D | %Rec | Limits |
|----------|-------------|---------|-----------|------|---|------|----------|
| | | Result | Qualifier | | | | |
| PCB-1016 | 6.25 | 9.94 | *+ | ug/L | | 159 | 21 - 119 |
| PCB-1260 | 6.25 | 10.2 | *+ | ug/L | | 163 | 18 - 122 |

| Surrogate | LCS LCS | | Limits |
|-------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| DCB Decachlorobiphenyl (Surr) | 94 | | 10 - 119 |
| Tetrachloro-m-xylene | 67 | | 14 - 110 |

Lab Sample ID: 240-154621-1 MS
Matrix: Solid
Analysis Batch: 327106

Client Sample ID: ZCSF-081621-001
Prep Type: TCLP
Prep Batch: 327057

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS MS | | Unit | D | %Rec | Limits |
|----------|---------------|------------------|-------------|--------|-----------|------|---|------|----------|
| | | | | Result | Qualifier | | | | |
| PCB-1016 | ND | *+ F1 F2 | 6.25 | 8.93 | F1 | ug/L | | 143 | 21 - 119 |
| PCB-1260 | ND | *+ F1 | 6.25 | 118 | F1 | ug/L | | 1888 | 18 - 122 |

| Surrogate | MS MS | | Limits |
|-------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| DCB Decachlorobiphenyl (Surr) | 50 | | 10 - 119 |
| Tetrachloro-m-xylene | 71 | | 14 - 110 |

Lab Sample ID: 240-154621-1 MSD
Matrix: Solid
Analysis Batch: 327106

Client Sample ID: ZCSF-081621-001
Prep Type: TCLP
Prep Batch: 327057

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD MSD | | Unit | D | %Rec | Limits | RPD | Limit |
|----------|---------------|------------------|-------------|---------|-----------|------|---|------|----------|-----|-------|
| | | | | Result | Qualifier | | | | | | |
| PCB-1016 | ND | *+ F1 F2 | 6.25 | 5.84 | F2 | ug/L | | 93 | 21 - 119 | 42 | 35 |
| PCB-1260 | ND | *+ F1 | 6.25 | 114 | F1 | ug/L | | 1820 | 18 - 122 | 4 | 30 |

| Surrogate | MSD MSD | | Limits |
|-------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| DCB Decachlorobiphenyl (Surr) | 52 | | 10 - 119 |
| Tetrachloro-m-xylene | 81 | | 14 - 110 |

QC Sample Results

Client: CJF Associates, LLC
 Project/Site: Council Bluffs, 1216

Job ID: 240-154621-1

Method: 6010C - Metals (ICP)

Lab Sample ID: LB 310-327000/1-C
Matrix: Solid
Analysis Batch: 327709

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 327065

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Arsenic | ND | | 0.50 | 0.25 | mg/L | | 09/01/21 09:00 | 09/07/21 14:06 | 1 |
| Barium | ND | | 2.5 | 0.55 | mg/L | | 09/01/21 09:00 | 09/07/21 14:06 | 1 |
| Cadmium | ND | | 0.10 | 0.022 | mg/L | | 09/01/21 09:00 | 09/07/21 14:06 | 1 |
| Chromium | ND | | 0.10 | 0.044 | mg/L | | 09/01/21 09:00 | 09/07/21 14:06 | 1 |
| Lead | ND | | 0.50 | 0.16 | mg/L | | 09/01/21 09:00 | 09/07/21 14:06 | 1 |
| Selenium | ND | | 0.50 | 0.32 | mg/L | | 09/01/21 09:00 | 09/07/21 14:06 | 1 |
| Silver | ND | | 0.10 | 0.044 | mg/L | | 09/01/21 09:00 | 09/07/21 14:06 | 1 |

Lab Sample ID: LCS 310-327000/2-C
Matrix: Solid
Analysis Batch: 327709

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 327065

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Arsenic | 1.00 | 1.22 | *+ | mg/L | | 122 | 80 - 120 |
| Barium | 0.500 | ND | | mg/L | | 109 | 80 - 120 |
| Cadmium | 0.500 | 0.550 | | mg/L | | 110 | 80 - 120 |
| Chromium | 0.500 | 0.532 | | mg/L | | 106 | 80 - 120 |
| Lead | 1.00 | 1.04 | | mg/L | | 104 | 80 - 120 |
| Selenium | 2.00 | 2.03 | | mg/L | | 101 | 80 - 120 |
| Silver | 0.500 | 0.540 | | mg/L | | 108 | 80 - 120 |

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 310-327000/1-B
Matrix: Solid
Analysis Batch: 327219

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 327049

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|--------|--------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.0020 | 0.0015 | mg/L | | 08/31/21 09:37 | 09/01/21 14:40 | 1 |

Lab Sample ID: LCS 310-327000/2-B
Matrix: Solid
Analysis Batch: 327219

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 327049

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Mercury | 0.0167 | 0.0142 | | mg/L | | 85 | 80 - 120 |

Lab Sample ID: 240-154621-1 MS
Matrix: Solid
Analysis Batch: 327219

Client Sample ID: ZCSF-081621-001
Prep Type: TCLP
Prep Batch: 327049

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Mercury | ND | F1 | 0.0167 | 0.0126 | F1 | mg/L | | 76 | 80 - 120 |

QC Sample Results

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216

Job ID: 240-154621-1

Method: Moisture - Percent Moisture

Lab Sample ID: 240-154621-1 DU
Matrix: Solid
Analysis Batch: 325744

Client Sample ID: ZCSF-081621-001
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|------------------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Percent Moisture | 9.2 | | 6.3 | | % | | 37 | 39 |
| Percent Solids | 90.8 | | 93.7 | | % | | 3 | 10 |

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

QC Association Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216

Job ID: 240-154621-1

GC Semi VOA

Prep Batch: 325868

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 240-154621-1 | ZCSF-081621-001 | 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 | |

Analysis Batch: 326446

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 240-154621-1 | ZCSF-081621-001 | Total/NA | Solid | 8082A | 325868 |
| 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 |

Analysis Batch: 326768

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 240-154621-1 | ZCSF-081621-001 | Total/NA | Solid | PCB | |

Leach Batch: 327007

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-154621-1 | ZCSF-081621-001 | TCLP | Solid | 1311 | |
| LB 310-327007/1-C | Method Blank | TCLP | Solid | 1311 | |
| LCS 310-327007/2-C | Lab Control Sample | TCLP | Solid | 1311 | |
| 240-154621-1 MS | ZCSF-081621-001 | TCLP | Solid | 1311 | |
| 240-154621-1 MSD | ZCSF-081621-001 | TCLP | Solid | 1311 | |

Prep Batch: 327057

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-154621-1 | ZCSF-081621-001 | TCLP | Solid | 3510C | 327007 |
| LB 310-327007/1-C | Method Blank | TCLP | Solid | 3510C | 327007 |
| LCS 310-327007/2-C | Lab Control Sample | TCLP | Solid | 3510C | 327007 |
| 240-154621-1 MS | ZCSF-081621-001 | TCLP | Solid | 3510C | 327007 |
| 240-154621-1 MSD | ZCSF-081621-001 | TCLP | Solid | 3510C | 327007 |

Analysis Batch: 327106

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-154621-1 | ZCSF-081621-001 | TCLP | Solid | 8082A | 327057 |
| 240-154621-1 | ZCSF-081621-001 | Total/NA | Solid | 8082A | 325868 |
| LB 310-327007/1-C | Method Blank | TCLP | Solid | 8082A | 327057 |
| LCS 310-327007/2-C | Lab Control Sample | TCLP | Solid | 8082A | 327057 |
| 240-154621-1 MS | ZCSF-081621-001 | TCLP | Solid | 8082A | 327057 |
| 240-154621-1 MSD | ZCSF-081621-001 | TCLP | Solid | 8082A | 327057 |

Metals

Leach Batch: 327000

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-154621-1 | ZCSF-081621-001 | TCLP | Solid | 1311 | |
| LB 310-327000/1-B | Method Blank | TCLP | Solid | 1311 | |
| LB 310-327000/1-C | Method Blank | TCLP | Solid | 1311 | |
| LCS 310-327000/2-B | Lab Control Sample | TCLP | Solid | 1311 | |
| LCS 310-327000/2-C | Lab Control Sample | TCLP | Solid | 1311 | |
| 240-154621-1 MS | ZCSF-081621-001 | TCLP | Solid | 1311 | |

Eurofins TestAmerica, Canton

QC Association Summary

Client: CJF Associates, LLC
Project/Site: Council Bluffs, 1216

Job ID: 240-154621-1

Metals

Prep Batch: 327049

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-154621-1 | ZCSF-081621-001 | TCLP | Solid | 7470A | 327000 |
| LB 310-327000/1-B | Method Blank | TCLP | Solid | 7470A | 327000 |
| LCS 310-327000/2-B | Lab Control Sample | TCLP | Solid | 7470A | 327000 |
| 240-154621-1 MS | ZCSF-081621-001 | TCLP | Solid | 7470A | 327000 |

Prep Batch: 327065

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-154621-1 | ZCSF-081621-001 | TCLP | Solid | 3010A | 327000 |
| LB 310-327000/1-C | Method Blank | TCLP | Solid | 3010A | 327000 |
| LCS 310-327000/2-C | Lab Control Sample | TCLP | Solid | 3010A | 327000 |

Analysis Batch: 327219

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-154621-1 | ZCSF-081621-001 | TCLP | Solid | 7470A | 327049 |
| LB 310-327000/1-B | Method Blank | TCLP | Solid | 7470A | 327049 |
| LCS 310-327000/2-B | Lab Control Sample | TCLP | Solid | 7470A | 327049 |
| 240-154621-1 MS | ZCSF-081621-001 | TCLP | Solid | 7470A | 327049 |

Analysis Batch: 327709

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-154621-1 | ZCSF-081621-001 | TCLP | Solid | 6010C | 327065 |
| LB 310-327000/1-C | Method Blank | TCLP | Solid | 6010C | 327065 |
| LCS 310-327000/2-C | Lab Control Sample | TCLP | Solid | 6010C | 327065 |

General Chemistry

Analysis Batch: 325744

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|----------|------------|
| 240-154621-1 | ZCSF-081621-001 | Total/NA | Solid | Moisture | |
| 240-154621-1 DU | ZCSF-081621-001 | Total/NA | Solid | Moisture | |

Analysis Batch: 325975

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 240-154621-1 | ZCSF-081621-001 | Total/NA | Solid | D92 | |

Lab Chronicle

Client: CJF Associates, LLC
 Project/Site: Council Bluffs, 1216

Job ID: 240-154621-1

Client Sample ID: ZCSF-081621-001

Lab Sample ID: 240-154621-1

Date Collected: 08/16/21 11:00

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 | | | 327007 | 08/30/21 12:00 | ERT | TAL CF |
| TCLP | Prep | 3510C | | | 327057 | 08/31/21 11:15 | JCM | TAL CF |
| TCLP | Analysis | 8082A | | 1 | 327106 | 09/01/21 04:58 | BBW | TAL CF |
| Total/NA | Analysis | PCB | | 1 | 326768 | 08/27/21 12:33 | DLK | TAL CF |
| TCLP | Leach | 1311 | | | 327000 | 08/30/21 12:00 | ERT | TAL CF |
| TCLP | Prep | 3010A | | | 327065 | 09/01/21 09:00 | ACM2 | TAL CF |
| TCLP | Analysis | 6010C | | 1 | 327709 | 09/07/21 14:16 | CTB | TAL CF |
| TCLP | Leach | 1311 | | | 327000 | 08/30/21 12:00 | ERT | TAL CF |
| TCLP | Prep | 7470A | | | 327049 | 08/31/21 09:37 | EAM | TAL CF |
| TCLP | Analysis | 7470A | | 1 | 327219 | 09/01/21 14:44 | 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: ZCSF-081621-001

Lab Sample ID: 240-154621-1

Date Collected: 08/16/21 11:00

Matrix: Solid

Date Received: 08/17/21 10:40

Percent Solids: 90.8

| 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 | | 1 | 326446 | 08/25/21 17:46 | BBW | TAL CF |
| Total/NA | Prep | 3550B | | | 325868 | 08/19/21 12:56 | KMH | TAL CF |
| Total/NA | Analysis | 8082A | | 5 | 327106 | 08/31/21 20:19 | 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: Council Bluffs, 1216

Job ID: 240-154621-1

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 |

4-0/41

Eurofins TestAmerica, Canton
4101 Shuffel Street NW

Chain of Custody Record



North Canton, OH 44720-6900
phone 330.497.9396 fax 330.497.0772

Regulatory Program: DW NPDES RCRA Other:

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

| | | | | | |
|---|--|--|--|--|--|
| Client Contact C,JF Associates 22324 Harper Ave St Clair Shores, MI 48080 (248) 227-5171 Phone (xxx) xxx-xxxx FAX Project Name: <u>Alto ZC</u> Site: <u>Crossed Bluffs, Lower</u> PO # <u>1216-01</u> | | Project Manager: Email: Tel/Fax: Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day | | Site Contact: Lab Contact: Carrier: Date: _____ COC No. 1 of 1 COCs | |
| Sample Identification <u>ZCSF - 081621-001</u> <u>↓ - 051 DUP</u> | | Filtered Sample (Y/N) _____ Perform MS/MSD (Y/N) _____ Total PCBs _____ TCLP PCBs _____ TCLP RCRA Metals _____ Ignitability _____ | | Sample Specific Notes: Hold | |
| Sample Date <u>8-16-21</u> | | Sample Time <u>11:00</u> | | Matrix <u>C</u> | |
| Sample Type (C=Comp, G=Grab) | | # of Cont. <u>4</u> | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months | |
| Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown | | | | | |
| Special Instructions/QC Requirements & Comments: <u>Sample is ASR from Iowa and needs an Iowa Certified Lab.</u> | | | | | |
| Custody Seal No.: Relinquished by: <u>[Signature]</u> Relinquished by: _____ Relinquished by: _____ | | Company: <u>ZCF</u> Company: _____ Company: _____ | | Received by: <u>[Signature]</u> Received by: _____ Received in Laboratory by: _____ | |
| Received by: <u>[Signature]</u> Received by: _____ Received in Laboratory by: _____ | | Company: <u>ETA</u> Company: _____ Company: _____ | | Received by: <u>[Signature]</u> Received by: _____ Received in Laboratory by: _____ | |
| Received by: _____ Received by: _____ Received in Laboratory by: _____ | | Company: _____ Company: _____ Company: _____ | | Received by: _____ Received by: _____ Received in Laboratory by: _____ | |




Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 154621

Client CJF Site Name _____ Cooler unpacked by: Mat
 Cooler Received on 8-17-21 Opened on 8-17-21

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

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: _____



Environment Testing
TestAmerica



240-154621 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

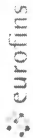
| | | | |
|---|---|---|------------------------|
| Client Information | | | |
| Client: <u>ETA Canton</u> | | | |
| City/State: <u>North Canton</u> <small>CITY</small> | | STATE: <u>OH</u> | |
| Project: | | | |
| Receipt Information | | | |
| Date/Time Received: | DATE: <u>8/18/21</u> | TIME: <u>1030</u> | Received By: <u>LB</u> |
| Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | | | |
| Condition of Cooler/Containers | | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: _____ | |
| Multiple Coolers? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Cooler # _____ of _____ | |
| Cooler Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ | |
| Temperature Record | | | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | | | |
| Thermometer ID: <u>0</u> | | Correction Factor (°C): <u>0</u> | |
| • Temp. Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | | |
| Uncorrected Temp (°C): | | Corrected Temp (°C): | |
| • Sample Container Temperature | | | |
| Container(s) used: | CONTAINER 1 <u>500 H₂SO₄ plastic</u> | CONTAINER 2 | |
| Uncorrected Temp (°C): | <u>2.3</u> | | |
| Corrected Temp (°C): | <u>2.3</u> | | |
| Exceptions Noted | | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | | |
| Additional Comments | | | |
| | | | |
| | | | |
| | | | |

Document: CF-LG-WI-002
Revision: 25
Date: 06/17/2019

Eurofins TestAmerica, Cedar Falls

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C

Chain of Custody Record



| | | | | | |
|---|---------|-----------------------------------|--|------------------------------|--|
| Client Information (Sub Contract Lab) | | Sampler: | Lab PM: | Carrier Tracking No(s): | COC No: |
| Company: TestAmerica Laboratories, Inc | | Heckler, Denise D | Heckler, Denise D | 240-141375.1 | 240-141375.1 |
| Address: 3019 Venture Way, Cedar Falls, IA, 50613 | | Phone: | E-Mail: | State of Origin: | Page: |
| Project Name: Alter Metals, Iowa, 1053.1216.1217.1218 | | Denise Heckler@Eurofinset.com | Denise Heckler@Eurofinset.com | Iowa | Page 1 of 1 |
| Site: | | PO #: | Accreditations Required (See note): | Job #: | 240-154621-1 |
| SSOW#: | | WO #: | State - Iowa | Preservation Codes: | |
| Project #: | | Project #: | 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 Other: | | |
| Alter Metals, Iowa, 1053.1216.1217.1218 | | 24013819 | M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) | | |
| Site: | | SSOW#: | Total Number of containers | | |
| Sample Identification - Client ID (Lab ID) | | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=Water, S=Solid, O=Overstuffed, BT=BIOSUB, A=Air) |
| ZCSF-081621-001 (240-154621-1) | 8/16/21 | 11:00 Central | Solid | Preservation Code: | |
| ZCSF-081621-001 DUP (240-154621-2) | 8/16/21 | 11:00 Central | Solid | | |
| Perform MS/MSD (Yes or No) | | Field Filtered Sample (Yes or No) | | Total PCBs / Total PCBs | |
| X | X | X | | X | |
| Moisture/ Percent Moisture | | 7470A/1311T Hg Mercury TCLP | | 6010C/1311T M TCLP Metals | |
| X | X | X | | X | |
| D92/ Flashpoint | | 8082A/1311_T TCLP PCB | | 8082A/3550B_PCB_1YR PCBs | |
| X | X | X | | X | |

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 compliance to Eurofins TestAmerica.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *CONNOR* Date: 8-17-21 15:03
 Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: _____

Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks: *PK 8-18-21 1030*

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:



Login Sample Receipt Checklist

Client: CJF Associates, LLC

Job Number: 240-154621-1

Login Number: 154621

List Number: 2

Creator: Homolar, Dana J

List Source: Eurofins TestAmerica, Cedar Falls

List Creation: 08/18/21 11:44 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 | |