

ANALYTICAL REPORT

PREPARED FOR

Attn: Gina Roys
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Generated 11/30/2023 8:00:23 PM

JOB DESCRIPTION

110623 AM

JOB NUMBER

310-269480-1

Eurofins Cedar Falls

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



Generated
11/30/2023 8:00:23 PM

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Case Narrative

Client: Clayton County Recycling
Project/Site: 110623 AM

Job ID: 310-269480-1

Job ID: 310-269480-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative 310-269480-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample 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 sample was received on 11/13/2023 8:40 AM. Unless otherwise noted below, the sample arrived in good condition. The temperature of the cooler at receipt time was 20.2°C

Receipt Exceptions

The following sample was received at the laboratory outside the required temperature criteria: 110623 AM (310-269480-1). There was no cooling media present in the cooler. The client has been contacted regarding this issue and the laboratory was instructed to proceed with analysis.

PCBs

Method 8082A: Tumbled in plastic due to matrix. 110623 AM (310-269480-1)

Method 8082A: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: 110623 AM (310-269480-1). The reporting limits (RLs) have been adjusted proportionately.

Method 8082A: Surrogate recovery for the following sample was outside control limits: 110623 AM (310-269480-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: 110623 AM (310-269480-1). Elevated reporting limits (RLs) are provided.

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

Metals

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

General Chemistry

Method D92: The following sample was collected in an improper container: 110623 AM (310-269480-1). The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

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

Sample Summary

Client: Clayton County Recycling
Project/Site: 110623 AM

Job ID: 310-269480-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-269480-1	110623 AM	Solid	11/06/23 00:00	11/13/23 08:40

1

2

3

4

5

6

7

8

9

10

11

Client Sample Results

Client: Clayton County Recycling
Project/Site: 110623 AM

Job ID: 310-269480-1

Client Sample ID: 110623 AM

Lab Sample ID: 310-269480-1

Date Collected: 11/06/23 00:00

Matrix: Solid

Date Received: 11/13/23 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<4.00		4.00		ug/L		11/16/23 08:02	11/27/23 21:26	1
PCB-1221	<4.00		4.00		ug/L		11/16/23 08:02	11/27/23 21:26	1
PCB-1232	<4.00		4.00		ug/L		11/16/23 08:02	11/27/23 21:26	1
PCB-1242	<4.00		4.00		ug/L		11/16/23 08:02	11/27/23 21:26	1
PCB-1248	<4.00		4.00		ug/L		11/16/23 08:02	11/27/23 21:26	1
PCB-1254	<4.00		4.00		ug/L		11/16/23 08:02	11/27/23 21:26	1
PCB-1260	<4.00		4.00		ug/L		11/16/23 08:02	11/27/23 21:26	1
PCB-1268	<4.00		4.00		ug/L		11/16/23 08:02	11/27/23 21:26	1
Polychlorinated biphenyls, Total	<4.00		4.00		ug/L		11/16/23 08:02	11/27/23 21:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	38		11 - 122	11/16/23 08:02	11/27/23 21:26	1
Tetrachloro-m-xylene	64		23 - 123	11/16/23 08:02	11/27/23 21:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.100		0.100		mg/L		11/16/23 10:40	11/17/23 13:27	1
Barium	0.890		0.200		mg/L		11/16/23 10:40	11/17/23 13:27	1
Cadmium	0.188		0.0200		mg/L		11/16/23 10:40	11/17/23 13:27	1
Chromium	0.0560		0.0200		mg/L		11/16/23 10:40	11/17/23 13:27	1
Lead	2.41		0.100		mg/L		11/16/23 10:40	11/17/23 13:27	1
Selenium	<0.100		0.100		mg/L		11/16/23 10:40	11/17/23 13:27	1
Silver	<0.0500		0.0500		mg/L		11/16/23 10:40	11/17/23 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		11/17/23 12:09	11/20/23 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU (ASTM D240-87)	4990		500		BTU/lb			11/26/23 11:20	1
Flashpoint (ASTM D92)	>200		65.0		Degrees F			11/15/23 17:06	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.2	HF	1.0		SU			11/14/23 21:06	1

Client Sample ID: 110623 AM

Lab Sample ID: 310-269480-1

Date Collected: 11/06/23 00:00

Matrix: Solid

Date Received: 11/13/23 08:40

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0838		0.0838		mg/Kg	✱	11/21/23 12:29	11/28/23 14:23	1
PCB-1221	<0.0838		0.0838		mg/Kg	✱	11/21/23 12:29	11/28/23 14:23	1
PCB-1232	<0.0838		0.0838		mg/Kg	✱	11/21/23 12:29	11/28/23 14:23	1
PCB-1242	0.645		0.168		mg/Kg	✱	11/21/23 12:29	11/28/23 16:17	2
PCB-1248	<0.0838		0.0838		mg/Kg	✱	11/21/23 12:29	11/28/23 14:23	1
PCB-1254	<0.0838		0.0838		mg/Kg	✱	11/21/23 12:29	11/28/23 14:23	1
PCB-1260	<0.0838		0.0838		mg/Kg	✱	11/21/23 12:29	11/28/23 14:23	1
PCB-1268	<0.0838		0.0838		mg/Kg	✱	11/21/23 12:29	11/28/23 14:23	1

Eurofins Cedar Falls

Client Sample Results

Client: Clayton County Recycling
Project/Site: 110623 AM

Job ID: 310-269480-1

Client Sample ID: 110623 AM

Lab Sample ID: 310-269480-1

Date Collected: 11/06/23 00:00

Matrix: Solid

Date Received: 11/13/23 08:40

Percent Solids: 89.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	4	S1-	10 - 149	11/21/23 12:29	11/28/23 14:23	1
Tetrachloro-m-xylene	4	S1-	10 - 147	11/21/23 12:29	11/28/23 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic (SW846 9023)	562		556		mg/Kg	☆	11/28/23 10:00	11/30/23 09:29	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 110623 AM

Job ID: 310-269480-1

Client Sample ID: 110623 AM

Lab Sample ID: 310-269480-1

Date Collected: 11/06/23 00:00

Matrix: Solid

Date Received: 11/13/23 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			406175	HSP8	EET CF	11/15/23 15:30 - 11/16/23 07:00 ¹
TCLP	Prep	3510C			406197	Y6AF	EET CF	11/16/23 08:02
TCLP	Analysis	8082A		1	407100	BW2O	EET CF	11/27/23 21:26
TCLP	Leach	1311			406185	HSP8	EET CF	11/15/23 15:30 - 11/16/23 07:00 ¹
TCLP	Prep	3010A			406241	KCK5	EET CF	11/16/23 10:40
TCLP	Analysis	6010D		1	406455	ZRI4	EET CF	11/17/23 13:27
TCLP	Leach	1311			406185	HSP8	EET CF	11/15/23 15:30 - 11/16/23 07:00 ¹
TCLP	Prep	7470A			406420	NFT2	EET CF	11/17/23 12:09
TCLP	Analysis	7470A		1	406628	NFT2	EET CF	11/20/23 12:28
Soluble	Leach	DI Leach			405999	D7CP	EET CF	11/14/23 17:46
Soluble	Analysis	9045D		1	406006	D7CP	EET CF	11/14/23 21:06
Total/NA	Analysis	D240-87		1	132479	PSC	EET HOU	11/26/23 11:20
Total/NA	Analysis	D92		1	406141	ENB7	EET CF	11/15/23 17:06

Client Sample ID: 110623 AM

Lab Sample ID: 310-269480-1

Date Collected: 11/06/23 00:00

Matrix: Solid

Date Received: 11/13/23 08:40

Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550B			406780	DZK8	EET CF	11/21/23 12:29
Total/NA	Analysis	8082A		1	407136	BW2O	EET CF	11/28/23 14:23
Total/NA	Prep	3550B			406780	DZK8	EET CF	11/21/23 12:29
Total/NA	Analysis	8082A		2	407136	BW2O	EET CF	11/28/23 16:17
Total/NA	Prep	9023			132743	ADL	EET HOU	11/28/23 10:00
Total/NA	Analysis	9023		1	133110	ADL	EET HOU	11/30/23 09:29

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

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Definitions/Glossary

Client: Clayton County Recycling
Project/Site: 110623 AM

Job ID: 310-269480-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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

Accreditation/Certification Summary

Client: Clayton County Recycling
Project/Site: 110623 AM

Job ID: 310-269480-1

Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-24
Georgia	State	IA100001 (OR)	09-29-24
Illinois	NELAP	200024	11-30-24
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-24
Minnesota	NELAP	019-999-319	12-31-23
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-24
Oregon	NELAP	IA100001	09-29-24

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Clayton County Recycling
Project/Site: 110623 AM

Job ID: 310-269480-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
6010D	Metals (ICP)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
9023	Organic Halides, Extractable (EOX)	SW846	EET HOU
9045D	pH	SW846	EET CF
D240-87	Heat of Combustion	ASTM	EET HOU
D92	Flashpoint	ASTM	EET CF
1311	TCLP Extraction	SW846	EET CF
3010A	Preparation, Total Metals	SW846	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
3550B	Ultrasonic Extraction	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
9023	Preparation, EOX	SW846	EET HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	EET CF

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



Environment Testing
America



310-269480 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Clayton County Recycling</u>			
City/State:	CITY	STATE	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-13-23</u>	TIME <u>0840</u>	Received By: <u>MY</u>
Delivery Type: <input checked="" type="checkbox"/> UPS <input 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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Wet Ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> NONE			
Thermometer ID: <u>Y</u>		Correction Factor (°C): <u>0</u>	
Temp Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u> <u>Plastic Bag</u>		<u>CONTAINER 2</u>
Uncorrected Temp (°C):	<u>20.2</u>		
Corrected Temp (°C):	<u>20.2</u>		
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-269480-1

SDG Number:

Login Number: 269480

List Number: 1

Creator: Yang, Mary E

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	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.	False	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-269480-1

SDG Number:

Login Number: 269480

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 11/14/23 12:05 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

ANALYTICAL REPORT

PREPARED FOR

Attn: Gina Roys
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Generated 11/30/2023 8:04:34 PM

JOB DESCRIPTION

110623 PM

JOB NUMBER

310-269481-1

Eurofins Cedar Falls

Job Notes

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Authorization



Generated
11/30/2023 8:04:34 PM

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Case Narrative

Client: Clayton County Recycling
Project/Site: 110623 PM

Job ID: 310-269481-1

Job ID: 310-269481-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative 310-269481-1

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

Receipt

The sample was received on 11/13/2023 8:40 AM. Unless otherwise noted below, the sample arrived in good condition. The temperature of the cooler at receipt time was 20.2°C

Receipt Exceptions

The following sample was received at the laboratory outside the required temperature criteria: 110623 PM (310-269481-1). There was no cooling media present in the cooler. The client has been contacted regarding this issue and the laboratory was instructed to proceed with analysis.

PCBs

Method 8082A: Tumbled in plastic due to matrix. 110623 PM (310-269481-1)

Method 8082A: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: 110623 PM (310-269481-1). The reporting limits (RLs) have been adjusted proportionately.

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.

Sample Summary

Client: Clayton County Recycling
Project/Site: 110623 PM

Job ID: 310-269481-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-269481-1	110623 PM	Solid	11/06/23 00:00	11/13/23 08:40

1

2

3

4

5

6

7

8

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11

Client Sample Results

Client: Clayton County Recycling
Project/Site: 110623 PM

Job ID: 310-269481-1

Client Sample ID: 110623 PM

Lab Sample ID: 310-269481-1

Date Collected: 11/06/23 00:00

Matrix: Solid

Date Received: 11/13/23 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<4.00		4.00		ug/L		11/16/23 09:57	11/27/23 21:39	1
PCB-1221	<4.00		4.00		ug/L		11/16/23 09:57	11/27/23 21:39	1
PCB-1232	<4.00		4.00		ug/L		11/16/23 09:57	11/27/23 21:39	1
PCB-1242	<4.00		4.00		ug/L		11/16/23 09:57	11/27/23 21:39	1
PCB-1248	<4.00		4.00		ug/L		11/16/23 09:57	11/27/23 21:39	1
PCB-1254	<4.00		4.00		ug/L		11/16/23 09:57	11/27/23 21:39	1
PCB-1260	<4.00		4.00		ug/L		11/16/23 09:57	11/27/23 21:39	1
PCB-1268	<4.00		4.00		ug/L		11/16/23 09:57	11/27/23 21:39	1
Polychlorinated biphenyls, Total	<4.00		4.00		ug/L		11/16/23 09:57	11/27/23 21:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	46		11 - 122				11/16/23 09:57	11/27/23 21:39	1
Tetrachloro-m-xylene	55		23 - 123				11/16/23 09:57	11/27/23 21:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.100		0.100		mg/L		11/16/23 10:40	11/17/23 13:29	1
Barium	0.524		0.200		mg/L		11/16/23 10:40	11/17/23 13:29	1
Cadmium	0.0630		0.0200		mg/L		11/16/23 10:40	11/17/23 13:29	1
Chromium	0.0308		0.0200		mg/L		11/16/23 10:40	11/17/23 13:29	1
Lead	1.69		0.100		mg/L		11/16/23 10:40	11/17/23 13:29	1
Selenium	<0.100		0.100		mg/L		11/16/23 10:40	11/17/23 13:29	1
Silver	<0.0500		0.0500		mg/L		11/16/23 10:40	11/17/23 13:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		11/17/23 12:09	11/20/23 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU (ASTM D240-87)	6830		500		BTU/lb			11/26/23 11:20	1
Flashpoint (ASTM D92)	>200		65.0		Degrees F			11/21/23 16:41	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.3	HF	1.0		SU			11/14/23 21:07	1

Client Sample ID: 110623 PM

Lab Sample ID: 310-269481-1

Date Collected: 11/06/23 00:00

Matrix: Solid

Date Received: 11/13/23 08:40

Percent Solids: 96.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0518		0.0518		mg/Kg	✱	11/21/23 12:29	11/28/23 14:39	1
PCB-1221	<0.0518		0.0518		mg/Kg	✱	11/21/23 12:29	11/28/23 14:39	1
PCB-1232	<0.0518		0.0518		mg/Kg	✱	11/21/23 12:29	11/28/23 14:39	1
PCB-1242	3.26		1.04		mg/Kg	✱	11/21/23 12:29	11/29/23 11:26	20
PCB-1248	<0.0518		0.0518		mg/Kg	✱	11/21/23 12:29	11/28/23 14:39	1
PCB-1254	<0.0518		0.0518		mg/Kg	✱	11/21/23 12:29	11/28/23 14:39	1
PCB-1260	<0.0518		0.0518		mg/Kg	✱	11/21/23 12:29	11/28/23 14:39	1
PCB-1268	<0.0518		0.0518		mg/Kg	✱	11/21/23 12:29	11/28/23 14:39	1

Eurofins Cedar Falls

Client Sample Results

Client: Clayton County Recycling
Project/Site: 110623 PM

Job ID: 310-269481-1

Client Sample ID: 110623 PM

Lab Sample ID: 310-269481-1

Date Collected: 11/06/23 00:00

Matrix: Solid

Date Received: 11/13/23 08:40

Percent Solids: 96.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	88		10 - 149	11/21/23 12:29	11/28/23 14:39	1
Tetrachloro-m-xylene	41		10 - 147	11/21/23 12:29	11/28/23 14:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic (SW846 9023)	10900		517		mg/Kg	☆	11/28/23 10:00	11/30/23 09:29	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 110623 PM

Job ID: 310-269481-1

Client Sample ID: 110623 PM

Lab Sample ID: 310-269481-1

Date Collected: 11/06/23 00:00

Matrix: Solid

Date Received: 11/13/23 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			406175	HSP8	EET CF	11/15/23 15:30 - 11/16/23 07:00 ¹
TCLP	Prep	3510C			406197	Y6AF	EET CF	11/16/23 09:57
TCLP	Analysis	8082A		1	407100	BW2O	EET CF	11/27/23 21:39
TCLP	Leach	1311			406185	HSP8	EET CF	11/15/23 15:30 - 11/16/23 07:00 ¹
TCLP	Prep	3010A			406241	KCK5	EET CF	11/16/23 10:40
TCLP	Analysis	6010D		1	406455	ZRI4	EET CF	11/17/23 13:29
TCLP	Leach	1311			406185	HSP8	EET CF	11/15/23 15:30 - 11/16/23 07:00 ¹
TCLP	Prep	7470A			406420	NFT2	EET CF	11/17/23 12:09
TCLP	Analysis	7470A		1	406628	NFT2	EET CF	11/20/23 12:30
Soluble	Leach	DI Leach			405999	D7CP	EET CF	11/14/23 17:46
Soluble	Analysis	9045D		1	406006	D7CP	EET CF	11/14/23 21:07
Total/NA	Analysis	D240-87		1	132479	PSC	EET HOU	11/26/23 11:20
Total/NA	Analysis	D92		1	406828	ENB7	EET CF	11/21/23 16:41

Client Sample ID: 110623 PM

Lab Sample ID: 310-269481-1

Date Collected: 11/06/23 00:00

Matrix: Solid

Date Received: 11/13/23 08:40

Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550B			406780	DZK8	EET CF	11/21/23 12:29
Total/NA	Analysis	8082A		20	407290	BW2O	EET CF	11/29/23 11:26
Total/NA	Prep	3550B			406780	DZK8	EET CF	11/21/23 12:29
Total/NA	Analysis	8082A		1	407136	BW2O	EET CF	11/28/23 14:39
Total/NA	Prep	9023			132743	ADL	EET HOU	11/28/23 10:00
Total/NA	Analysis	9023		1	133110	ADL	EET HOU	11/30/23 09:29

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

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Definitions/Glossary

Client: Clayton County Recycling
Project/Site: 110623 PM

Job ID: 310-269481-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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

Accreditation/Certification Summary

Client: Clayton County Recycling
Project/Site: 110623 PM

Job ID: 310-269481-1

Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-24
Georgia	State	IA100001 (OR)	09-29-24
Illinois	NELAP	200024	11-30-24
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-24
Minnesota	NELAP	019-999-319	12-31-23
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-24
Oregon	NELAP	IA100001	09-29-24

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Clayton County Recycling
Project/Site: 110623 PM

Job ID: 310-269481-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
6010D	Metals (ICP)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
9023	Organic Halides, Extractable (EOX)	SW846	EET HOU
9045D	pH	SW846	EET CF
D240-87	Heat of Combustion	ASTM	EET HOU
D92	Flashpoint	ASTM	EET CF
1311	TCLP Extraction	SW846	EET CF
3010A	Preparation, Total Metals	SW846	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
3550B	Ultrasonic Extraction	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
9023	Preparation, EOX	SW846	EET HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	EET CF

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



Environment Testing
America



310-269481 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Clayton County Recycling</u>			
City/State:	CITY	STATE	Project:
Receipt Information			
Date/Time Received:	DATE	TIME	Received By:
	<u>11-13-23</u>	<u>0840</u>	<u>MY</u>
Delivery Type: <input checked="" type="checkbox"/> UPS <input 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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> NONE			
Thermometer ID: <u>Y</u>		Correction Factor (°C): <u>0</u>	
Temp Blank Temperature If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u> <u>Plastic Bag</u>		<u>CONTAINER 2</u>
Uncorrected Temp (°C):	<u>20.2</u>		
Corrected Temp (°C):	<u>20.2</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			

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Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-269481-1

Login Number: 269481

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Yang, Mary E

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	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.	False	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-269481-1

Login Number: 269481

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 11/14/23 12:05 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

ANALYTICAL REPORT

PREPARED FOR

Attn: Gina Roys
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Generated 11/30/2023 8:07:57 PM

JOB DESCRIPTION

110823 PM

JOB NUMBER

310-269482-1

Eurofins Cedar Falls

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



Generated
11/30/2023 8:07:57 PM

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Brian Graettinger, Business Unit Manager
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Case Narrative

Client: Clayton County Recycling
Project/Site: 110823 PM

Job ID: 310-269482-1

Job ID: 310-269482-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative 310-269482-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample 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 sample was received on 11/13/2023 8:40 AM. Unless otherwise noted below, the sample arrived in good condition. The temperature of the cooler at receipt time was 20.2°C

Receipt Exceptions

The following sample was received at the laboratory outside the required temperature criteria: 110823 PM (310-269482-1). There was no cooling media present in the cooler. The client has been contacted regarding this issue and the laboratory was instructed to proceed with analysis.

PCBs

Method 8082A: Tumbled in plastic due to matrix. 110823 PM (310-269482-1)

Method 8082A: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: 110823 PM (310-269482-1). The reporting limits (RLs) have been adjusted proportionately.

Method 8082A: Surrogate recovery for the following sample was outside control limits: 110823 PM (310-269482-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Metals

Method 6010D: The following sample(s) was diluted due to the presence of an interferent. 110823 PM (310-269482-1). 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.

General Chemistry

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

Sample Summary

Client: Clayton County Recycling
Project/Site: 110823 PM

Job ID: 310-269482-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-269482-1	110823 PM	Solid	11/08/23 00:00	11/13/23 08:40

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: Clayton County Recycling
Project/Site: 110823 PM

Job ID: 310-269482-1

Client Sample ID: 110823 PM

Lab Sample ID: 310-269482-1

Date Collected: 11/08/23 00:00

Matrix: Solid

Date Received: 11/13/23 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<4.00		4.00		ug/L		11/16/23 09:57	11/28/23 16:01	1
PCB-1221	<4.00		4.00		ug/L		11/16/23 09:57	11/28/23 16:01	1
PCB-1232	<4.00		4.00		ug/L		11/16/23 09:57	11/28/23 16:01	1
PCB-1242	<4.00		4.00		ug/L		11/16/23 09:57	11/28/23 16:01	1
PCB-1248	<4.00		4.00		ug/L		11/16/23 09:57	11/28/23 16:01	1
PCB-1254	<4.00		4.00		ug/L		11/16/23 09:57	11/28/23 16:01	1
PCB-1260	<4.00		4.00		ug/L		11/16/23 09:57	11/28/23 16:01	1
PCB-1268	<4.00		4.00		ug/L		11/16/23 09:57	11/28/23 16:01	1
Polychlorinated biphenyls, Total	<4.00		4.00		ug/L		11/16/23 09:57	11/28/23 16:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	47		11 - 122				11/16/23 09:57	11/28/23 16:01	1
Tetrachloro-m-xylene	44		23 - 123				11/16/23 09:57	11/28/23 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.200		0.200		mg/L		11/16/23 10:40	11/17/23 13:51	2
Barium	0.542		0.400		mg/L		11/16/23 10:40	11/17/23 13:51	2
Cadmium	0.228		0.0400		mg/L		11/16/23 10:40	11/17/23 13:51	2
Chromium	0.0550		0.0400		mg/L		11/16/23 10:40	11/17/23 13:51	2
Lead	0.991		0.200		mg/L		11/16/23 10:40	11/17/23 13:51	2
Selenium	<0.200		0.200		mg/L		11/16/23 10:40	11/17/23 13:51	2
Silver	<0.100		0.100		mg/L		11/16/23 10:40	11/17/23 13:51	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		11/17/23 12:09	11/20/23 12:33	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU (ASTM D240-87)	<500		500		BTU/lb			11/26/23 11:20	1
Flashpoint (ASTM D92)	>200		65.0		Degrees F			11/21/23 16:41	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.1	HF	1.0		SU			11/14/23 21:13	1

Client Sample ID: 110823 PM

Lab Sample ID: 310-269482-1

Date Collected: 11/08/23 00:00

Matrix: Solid

Date Received: 11/13/23 08:40

Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.105		0.105		mg/Kg	✱	11/21/23 12:29	11/28/23 14:56	1
PCB-1221	<0.105		0.105		mg/Kg	✱	11/21/23 12:29	11/28/23 14:56	1
PCB-1232	<0.105		0.105		mg/Kg	✱	11/21/23 12:29	11/28/23 14:56	1
PCB-1242	8.93		2.10		mg/Kg	✱	11/21/23 12:29	11/29/23 11:39	20
PCB-1248	<0.105		0.105		mg/Kg	✱	11/21/23 12:29	11/28/23 14:56	1
PCB-1254	<0.105		0.105		mg/Kg	✱	11/21/23 12:29	11/28/23 14:56	1
PCB-1260	<0.105		0.105		mg/Kg	✱	11/21/23 12:29	11/28/23 14:56	1
PCB-1268	<0.105		0.105		mg/Kg	✱	11/21/23 12:29	11/28/23 14:56	1

Eurofins Cedar Falls

Client Sample Results

Client: Clayton County Recycling
Project/Site: 110823 PM

Job ID: 310-269482-1

Client Sample ID: 110823 PM

Lab Sample ID: 310-269482-1

Date Collected: 11/08/23 00:00

Matrix: Solid

Date Received: 11/13/23 08:40

Percent Solids: 92.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	1315	S1+	10 - 149	11/21/23 12:29	11/28/23 14:56	1
Tetrachloro-m-xylene	57		10 - 147	11/21/23 12:29	11/28/23 14:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic (SW846 9023)	<541		541		mg/Kg	☼	11/28/23 10:00	11/30/23 09:29	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 110823 PM

Job ID: 310-269482-1

Client Sample ID: 110823 PM

Lab Sample ID: 310-269482-1

Date Collected: 11/08/23 00:00

Matrix: Solid

Date Received: 11/13/23 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			406175	HSP8	EET CF	11/15/23 15:30 - 11/16/23 07:00 ¹
TCLP	Prep	3510C			406197	Y6AF	EET CF	11/16/23 09:57
TCLP	Analysis	8082A		1	407136	BW2O	EET CF	11/28/23 16:01
TCLP	Leach	1311			406185	HSP8	EET CF	11/15/23 15:30 - 11/16/23 07:00 ¹
TCLP	Prep	3010A			406241	KCK5	EET CF	11/16/23 10:40
TCLP	Analysis	6010D		2	406455	ZRI4	EET CF	11/17/23 13:51
TCLP	Leach	1311			406185	HSP8	EET CF	11/15/23 15:30 - 11/16/23 07:00 ¹
TCLP	Prep	7470A			406420	NFT2	EET CF	11/17/23 12:09
TCLP	Analysis	7470A		1	406628	NFT2	EET CF	11/20/23 12:33
Soluble	Leach	DI Leach			405999	D7CP	EET CF	11/14/23 17:46
Soluble	Analysis	9045D		1	406006	D7CP	EET CF	11/14/23 21:13
Total/NA	Analysis	D240-87		1	132479	PSC	EET HOU	11/26/23 11:20
Total/NA	Analysis	D92		1	406828	ENB7	EET CF	11/21/23 16:41

Client Sample ID: 110823 PM

Lab Sample ID: 310-269482-1

Date Collected: 11/08/23 00:00

Matrix: Solid

Date Received: 11/13/23 08:40

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550B			406780	DZK8	EET CF	11/21/23 12:29
Total/NA	Analysis	8082A		20	407290	BW2O	EET CF	11/29/23 11:39
Total/NA	Prep	3550B			406780	DZK8	EET CF	11/21/23 12:29
Total/NA	Analysis	8082A		1	407136	BW2O	EET CF	11/28/23 14:56
Total/NA	Prep	9023			132743	ADL	EET HOU	11/28/23 10:00
Total/NA	Analysis	9023		1	133110	ADL	EET HOU	11/30/23 09:29

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

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Definitions/Glossary

Client: Clayton County Recycling
Project/Site: 110823 PM

Job ID: 310-269482-1

Qualifiers

GC Semi VOA

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

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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

Accreditation/Certification Summary

Client: Clayton County Recycling
Project/Site: 110823 PM

Job ID: 310-269482-1

Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-24
Georgia	State	IA100001 (OR)	09-29-24
Illinois	NELAP	200024	11-30-24
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-24
Minnesota	NELAP	019-999-319	12-31-23
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-24
Oregon	NELAP	IA100001	09-29-24

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Clayton County Recycling
Project/Site: 110823 PM

Job ID: 310-269482-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
6010D	Metals (ICP)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
9023	Organic Halides, Extractable (EOX)	SW846	EET HOU
9045D	pH	SW846	EET CF
D240-87	Heat of Combustion	ASTM	EET HOU
D92	Flashpoint	ASTM	EET CF
1311	TCLP Extraction	SW846	EET CF
3010A	Preparation, Total Metals	SW846	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
3550B	Ultrasonic Extraction	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
9023	Preparation, EOX	SW846	EET HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	EET CF

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



Environment Testing
America



310-269482 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Clayton County Recycling</u>			
City/State:	CITY	STATE	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-13-23</u>	TIME <u>0840</u>	Received By: <u>MY</u>
Delivery Type: <input checked="" type="checkbox"/> UPS <input 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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> NONE			
Thermometer ID: <u>Y</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>Plastic Bag</u>		CONTAINER 2
Uncorrected Temp (°C):	<u>20.2</u>		
Corrected Temp (°C):	<u>20.2</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			

277 - 2425
110823 PM

Company:

Send Report To:

Address:

City/State/Zip Code:

Telephone Number:

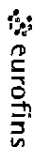
Sampled by: (Print Name)

(Signature)

Analyze For:

[illegible]

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler	Lab P/N	Carrier Tracking Note(s)	COC No:						
Client Contact:		Hummel, Matthew R			310-57400.1						
Shipping/Receiving	Phone:	E-Mail:	State of Origin:	Page 1 of 1							
Eurofins Environment Testing South Cent		Matthew.Hummel@et.eurofins.com	Iowa								
Address:	Due Date Requested:	Accreditations Required (see note):	Job #:		310-269482-1						
4145 Greenbriar Dr	11/28/2023										
City:	TAT Requested (days):	Analysis Requested									
Stafford											
State, Zip:											
TX, 77477											
Phone:	PO #:										
281-240-4200(Tel)											
Email:	WO #:										
Project Name:	Project #:										
110823 PM	31001320										
Site:	SSOW#:										
Sample Identification	Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (G-grab)	Matrix (Inorganic, Semimetal, Organic, Acid)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9023/9023_Prep EOX	D240_87_NP	Total Number of containers	Special Instructions/Note:
110823 PM (310-269482-1)		11/8/23	Central		Solid			X	X	1	HW369 1.7 1.7
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/assessments 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											
Uncertified											
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 1											
Empty Kit Relinquished by: Date: Date: Time: Method of Shipment:											
Relinquished by: Date/Time: 11/30/23 1540 Company: Received by: Date/Time: 11/14/2023 9:55 Company: EX											
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:											
Custody Seals Intact: Custody Seal No. Cooler Temperature(s) °C and Other Remains:											
A Yes A No											

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-269482-1

Login Number: 269482

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Yang, Mary E

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	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.	False	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-269482-1

Login Number: 269482

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 11/14/23 12:05 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	