eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/12/2023 5:10:39 PM

JOB DESCRIPTION

042123 AM

JOB NUMBER

310-254768-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

my EOL

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
5/12/2023 5:10:39 PM

Authorized for release by
Hannah Dietz, Project Management Assistant I
Hannah.Dietz@et.eurofinsus.com
Designee for
Matthew Hummel, Project Manager I
Matthew.Hummel@et.eurofinsus.com
(319)595-2010

Table of Contents

Client: Clayton County Recycling
Project/Site: 042123 AM

Job ID: 310-254768-1

Job ID: 310-254768-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative
310-254768-1

Receipt
The sample was received on 5/2/2023 8:30 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 18.4°C

Receipt Exceptions
The following sample was received at the laboratory outside the required temperature criteria: 042123 AM (310-254768-1). There was no cooling media present in the cooler.

PCBs
Method 8082A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-386273 and 310-386365.The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8082A: The following sample was tumbled in plastic due to the matrix: 042123 AM (310-254768-1)

Method 8082A: The following sample was diluted due to the nature of the sample matrix: 042123 AM (310-254768-1). 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
Method 6010D: The continuing calibration verification (CCV) associated with batch 310-386528 recovered above the upper control limit for Silver. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

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: 042123 AM

Job ID: 310-254768-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-254768-1	042123 AM	Solid	04/21/23 00:00	05/02/23 08:30

Client: Clayton County Recycling
Project/Site: 042123 AM

Job ID: 310-254768-1

Client Sample ID: 042123 AM

Lab Sample ID: 310-254768-1

Date Collected: 04/21/23 00:00
Matrix: Solid
Date Received: 05/02/23 08:30

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		05/04/23 07:57	05/09/23 19:59	1
PCB-1221	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 19:59	1
PCB-1232	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 19:59	1
PCB-1242	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 19:59	1
PCB-1248	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 19:59	1
PCB-1254	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 19:59	1
PCB-1260	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 19:59	1
PCB-1268	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 19:59	1
Polychlorinated biphenyls, Total	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*11 - 122*	*05/04/23 07:57*	*05/09/23 19:59*	*1*
Tetrachloro-m-xylene	*54*		*23 - 123*	*05/04/23 07:57*	*05/09/23 19:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.100	F1	0.100		mg/L		05/04/23 09:30	05/04/23 21:12	1
Barium	**0.448**	**F1**	0.200		mg/L		05/04/23 09:30	05/04/23 21:12	1
Cadmium	**0.0697**		0.0200		mg/L		05/04/23 09:30	05/04/23 21:12	1
Chromium	**0.0298**		0.0200		mg/L		05/04/23 09:30	05/04/23 21:12	1
Lead	**1.14**		0.100		mg/L		05/04/23 09:30	05/04/23 21:12	1
Selenium	<0.100		0.100		mg/L		05/04/23 09:30	05/04/23 21:12	1
Silver	<0.0500	^+	0.0500		mg/L		05/04/23 09:30	05/04/23 21:12	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		05/08/23 11:14	05/09/23 14:05	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU (ASTM D240-87)	**3160**		500		BTU/lb			05/04/23 15:25	1
Flashpoint (ASTM D92)	**>200**		65.0		Degrees F			05/04/23 07:33	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**8.2**	**HF**	0.1		SU			05/04/23 09:52	1

Client Sample ID: 042123 AM

Lab Sample ID: 310-254768-1

Date Collected: 04/21/23 00:00
Matrix: Solid
Date Received: 05/02/23 08:30
Percent Solids: 95.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.134		0.134		mg/Kg	☼	05/03/23 12:18	05/08/23 21:05	1
PCB-1221	<0.134		0.134		mg/Kg	☼	05/03/23 12:18	05/08/23 21:05	1
PCB-1232	<0.134		0.134		mg/Kg	☼	05/03/23 12:18	05/08/23 21:05	1
PCB-1242	**6.70**		2.68		mg/Kg	☼	05/03/23 12:18	05/12/23 15:07	20
PCB-1248	<0.134		0.134		mg/Kg	☼	05/03/23 12:18	05/08/23 21:05	1
PCB-1254	<0.134		0.134		mg/Kg	☼	05/03/23 12:18	05/08/23 21:05	1
PCB-1260	<0.134		0.134		mg/Kg	☼	05/03/23 12:18	05/08/23 21:05	1
PCB-1268	<0.134		0.134		mg/Kg	☼	05/03/23 12:18	05/08/23 21:05	1

Client: Clayton County Recycling
Project/Site: 042123 AM

Job ID: 310-254768-1

Client Sample ID: 042123 AM
Date Collected: 04/21/23 00:00
Date Received: 05/02/23 08:30

Lab Sample ID: 310-254768-1
Matrix: Solid
Percent Solids: 95.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*116*	*p*	*10 - 149*	*05/03/23 12:18*	*05/08/23 21:05*	*1*
Tetrachloro-m-xylene	*32*		*10 - 147*	*05/03/23 12:18*	*05/08/23 21:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic (SW846 9023)	<523		523		mg/Kg	☼	05/04/23 23:51	05/09/23 14:46	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 042123 AM

Job ID: 310-254768-1

Client Sample ID: 042123 AM

Lab Sample ID: 310-254768-1

Date Collected: 04/21/23 00:00

Matrix: Solid

Date Received: 05/02/23 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			386273	FK4Z	EET CF	05/03/23 14:00 - 05/04/23 06:00 [1]
TCLP	Prep	3510C			386365	Y6AF	EET CF	05/04/23 07:57
TCLP	Analysis	8082A		1	386860	BW2O	EET CF	05/09/23 19:59
TCLP	Leach	1311			386272	FK4Z	EET CF	05/03/23 14:00 - 05/04/23 06:00 [1]
TCLP	Prep	3010A			386379	KCK5	EET CF	05/04/23 09:30
TCLP	Analysis	6010D		1	386528	A6US	EET CF	05/04/23 21:12
TCLP	Leach	1311			386272	FK4Z	EET CF	05/03/23 14:00 - 05/04/23 06:00 [1]
TCLP	Prep	7470A			386760	XXW3	EET CF	05/08/23 11:14
TCLP	Analysis	7470A		1	386952	XXW3	EET CF	05/09/23 14:05
Soluble	Leach	DI Leach			386253	WZC8	EET CF	05/03/23 12:06
Soluble	Analysis	9045D		1	386402	D7CP	EET CF	05/04/23 09:52
Total/NA	Analysis	D240-87		1	101808	PSC	EET HOU	05/04/23 15:25
Total/NA	Analysis	D92		1	386357	WZC8	EET CF	05/04/23 07:33

Client Sample ID: 042123 AM

Lab Sample ID: 310-254768-1

Date Collected: 04/21/23 00:00

Matrix: Solid

Date Received: 05/02/23 08:30

Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			386255	GW4G	EET CF	05/03/23 12:18
Total/NA	Analysis	8082A		1	386818	BW2O	EET CF	05/08/23 21:05
Total/NA	Prep	3546			386255	GW4G	EET CF	05/03/23 12:18
Total/NA	Analysis	8082A		20	387288	BW2O	EET CF	05/12/23 15:07
Total/NA	Prep	9023			101866	ADL	EET HOU	05/04/23 23:51
Total/NA	Analysis	9023		1	102436	ADL	EET HOU	05/09/23 14:46

[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

Client: Clayton County Recycling
Job ID: 310-254768-1
Project/Site: 042123 AM

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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: 042123 AM

Job ID: 310-254768-1

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)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-29-23
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	09-29-23
Oregon	NELAP	IA100001	09-29-23

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	08-04-23
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Louisiana (All)	NELAP	03054	06-30-23
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-23-50	06-30-23
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: 042123 AM

Job ID: 310-254768-1

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
3546	Microwave 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

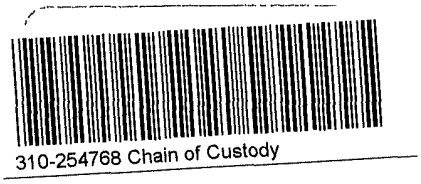
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

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

eurofins | Environment Testing America



Cooler/Sample Receipt and Temperatu

Client Information			
Client: Clayton County Recycling			
City/State: CITY Monona	STATE IA	Project:	
Receipt Information			
Date/Time Received: DATE 5-2-23	TIME 830	Received By: AL	
Delivery Type: ☑ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☐ Yes ☒ No	*If yes:* Cooler ID: Received in a box		
Multiple Coolers? ☐ Yes ☒ No	*If yes:* Cooler # _____ of _____		
Cooler Custody Seals Present? ☐ Yes ☒ No	*If yes:* Cooler custody seals intact? ☐ Yes ☐ No		
Sample Custody Seals Present? ☐ Yes ☒ No	*If yes:* Sample custody seals intact? ☐ Yes ☐ No		
Trip Blank Present? ☐ Yes ☒ No	*If yes:* Which VOA samples are in cooler? ↓		
Temperature Record			
Coolant: ☐ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☒ NONE			
Thermometer ID: W	Correction Factor (°C): 0		
• **Temp Blank Temperature** – *If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature*			
Uncorrected Temp (°C): —	Corrected Temp (°C): —		
• **Sample Container Temperature**			
Container(s) used:	CONTAINER 1: Plastic Bag →	CONTAINER 2	
Uncorrected Temp (°C):	18.4	18.3	
Corrected Temp (°C):	18.4	18.3	
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

TestAmerica INCORPORATED

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613
Fax: 319 - 277 - 2425

Company: Clayton County Recycling
Send Report To: Gina Roys
Address: 111645 Echo Ave
City/State/Zip Code: Monona IA 52159
Telephone Number: 563-539-4757 Fax: 563-539-4735
Sampled by: (Print Name) Fred Runde
(Signature) Fred Runde

Your PO #: 04123 AM
Invoice To:
TA Quote #:
Project Name:
Project Number:
Project Manager: Gina Roys
Proj. Mgr. Telephone: 563-539-4757
Proj. Mgr. Email: gina@ccrecycling.com

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H2SO4 Plastic (Yellow & White Label)	H2SO4 Glass(Yellow & White Label)	None (Black & White Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Oil	Analyze For: PCB	TCLP Metals	Flashpoint	Chloride	BTU	pH	PCB	Leachability	RUSH TAT (Must call ahead!)	Standard TAT	Email Results	Fax Results	Send QC with report
																					X	X	X	X	X	X	X	X					

NOTES:

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
NOTICE: **Pre-Arrangements must be made *AT LEAST 48 Hours in ADVANCE* to receive results with RUSH turn around time commitments; *additional charges* may be assessed.**
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time

Shipped Via:
Comments:
Shipped Via:

Received for TestAmerica by:	Date	Time	Temperature Upon Receipt:	Laboratory Comments:
GT	5/2/23	0830		

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-254768-1
SDG Number:

Login Number: 254768
List Number: 1
Creator: Tucker, Sarah L

List Source: Eurofins Cedar Falls

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.	False	Samples not received in a cooler
Cooler Temperature is acceptable.	False	Sample temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-254768-1
SDG Number:

Login Number: 254768
List Number: 2
Creator: Pena, Jesiel

List Source: Eurofins Houston
List Creation: 05/03/23 12:10 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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/12/2023 5:18:53 PM

JOB DESCRIPTION

042523 AM

JOB NUMBER

310-254772-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

my EOL

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
5/12/2023 5:18:53 PM

Authorized for release by
Hannah Dietz, Project Management Assistant I
Hannah.Dietz@et.eurofinsus.com
Designee for
Matthew Hummel, Project Manager I
Matthew.Hummel@et.eurofinsus.com
(319)595-2010

Table of Contents

Client: Clayton County Recycling
Project/Site: 042523 AM

Job ID: 310-254772-1

Job ID: 310-254772-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative
310-254772-1

Receipt
The sample was received on 5/2/2023 8:30 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 18.4°C

Receipt Exceptions
The following sample was received at the laboratory outside the required temperature criteria: 042523 AM (310-254772-1). There was no cooling media present in the cooler.

PCBs
Method 8082A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-386273 and 310-386365.The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8082A: The following sample was tumbled in plastic due to the matrix: 042523 AM (310-254772-1).

Method 8082A: The following sample was diluted due to the nature of the sample matrix: 042523 AM (310-254772-1). 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
Method 6010D: The continuing calibration verification (CCV) associated with batch 310-386528 recovered above the upper control limit for Silver. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

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: 042523 AM

Job ID: 310-254772-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-254772-1	042523 AM	Solid	04/25/23 00:00	05/02/23 08:30

Client: Clayton County Recycling
Project/Site: 042523 AM

Job ID: 310-254772-1

Client Sample ID: 042523 AM

Date Collected: 04/25/23 00:00
Date Received: 05/02/23 08:30

Lab Sample ID: 310-254772-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 20:51	1
PCB-1221	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 20:51	1
PCB-1232	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 20:51	1
PCB-1242	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 20:51	1
PCB-1248	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 20:51	1
PCB-1254	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 20:51	1
PCB-1260	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 20:51	1
PCB-1268	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 20:51	1
Polychlorinated biphenyls, Total	<4.00		4.00		ug/L		05/04/23 07:57	05/09/23 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*11 - 122*	*05/04/23 07:57*	*05/09/23 20:51*	*1*
Tetrachloro-m-xylene	*48*		*23 - 123*	*05/04/23 07:57*	*05/09/23 20:51*	*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		05/04/23 09:30	05/04/23 21:23	1
Barium	**0.774**		0.200		mg/L		05/04/23 09:30	05/04/23 21:23	1
Cadmium	**0.214**		0.0200		mg/L		05/04/23 09:30	05/04/23 21:23	1
Chromium	**0.0245**		0.0200		mg/L		05/04/23 09:30	05/04/23 21:23	1
Lead	**0.495**		0.100		mg/L		05/04/23 09:30	05/04/23 21:23	1
Selenium	<0.100		0.100		mg/L		05/04/23 09:30	05/04/23 21:23	1
Silver	<0.0500	^+	0.0500		mg/L		05/04/23 09:30	05/04/23 21:23	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		05/08/23 11:14	05/09/23 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU (ASTM D240-87)	**2620**		500		BTU/lb			05/06/23 12:46	1
Flashpoint (ASTM D92)	**>200**		65.0		Degrees F			05/04/23 07:33	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**7.9**	**HF**	0.1		SU			05/04/23 09:59	1

Client Sample ID: 042523 AM

Date Collected: 04/25/23 00:00
Date Received: 05/02/23 08:30

Lab Sample ID: 310-254772-1

Matrix: Solid
Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.109		0.109		mg/Kg	☼	05/03/23 12:18	05/08/23 21:56	1
PCB-1221	<0.109		0.109		mg/Kg	☼	05/03/23 12:18	05/08/23 21:56	1
PCB-1232	<0.109		0.109		mg/Kg	☼	05/03/23 12:18	05/08/23 21:56	1
PCB-1242	**1.62**		0.544		mg/Kg	☼	05/03/23 12:18	05/12/23 14:14	5
PCB-1248	<0.109		0.109		mg/Kg	☼	05/03/23 12:18	05/08/23 21:56	1
PCB-1254	<0.109		0.109		mg/Kg	☼	05/03/23 12:18	05/08/23 21:56	1
PCB-1260	<0.109		0.109		mg/Kg	☼	05/03/23 12:18	05/08/23 21:56	1
PCB-1268	<0.109		0.109		mg/Kg	☼	05/03/23 12:18	05/08/23 21:56	1

Client: Clayton County Recycling
Project/Site: 042523 AM

Job ID: 310-254772-1

Client Sample ID: 042523 AM
Date Collected: 04/25/23 00:00
Date Received: 05/02/23 08:30

Lab Sample ID: 310-254772-1
Matrix: Solid
Percent Solids: 87.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*97*		*10 - 149*	*05/03/23 12:18*	*05/08/23 21:56*	*1*
Tetrachloro-m-xylene	*19*		*10 - 147*	*05/03/23 12:18*	*05/08/23 21:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic (SW846 9023)	**1050**		571		mg/Kg	☼	05/04/23 23:51	05/09/23 14:46	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 042523 AM

Job ID: 310-254772-1

Client Sample ID: 042523 AM

Lab Sample ID: 310-254772-1

Date Collected: 04/25/23 00:00

Matrix: Solid

Date Received: 05/02/23 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			386273	FK4Z	EET CF	05/03/23 14:00 - 05/04/23 06:00 [1]
TCLP	Prep	3510C			386365	Y6AF	EET CF	05/04/23 07:57
TCLP	Analysis	8082A		1	386860	BW2O	EET CF	05/09/23 20:51
TCLP	Leach	1311			386272	FK4Z	EET CF	05/03/23 14:00 - 05/04/23 06:00 [1]
TCLP	Prep	3010A			386379	KCK5	EET CF	05/04/23 09:30
TCLP	Analysis	6010D		1	386528	A6US	EET CF	05/04/23 21:23
TCLP	Leach	1311			386272	FK4Z	EET CF	05/03/23 14:00 - 05/04/23 06:00 [1]
TCLP	Prep	7470A			386760	XXW3	EET CF	05/08/23 11:14
TCLP	Analysis	7470A		1	386952	XXW3	EET CF	05/09/23 14:20
Soluble	Leach	DI Leach			386253	WZC8	EET CF	05/03/23 12:06
Soluble	Analysis	9045D		1	386402	D7CP	EET CF	05/04/23 09:59
Total/NA	Analysis	D240-87		1	102049	PSC	EET HOU	05/06/23 12:46
Total/NA	Analysis	D92		1	386357	WZC8	EET CF	05/04/23 07:33

Client Sample ID: 042523 AM

Lab Sample ID: 310-254772-1

Date Collected: 04/25/23 00:00

Matrix: Solid

Date Received: 05/02/23 08:30

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			386255	GW4G	EET CF	05/03/23 12:18
Total/NA	Analysis	8082A		1	386818	BW2O	EET CF	05/08/23 21:56
Total/NA	Prep	3546			386255	GW4G	EET CF	05/03/23 12:18
Total/NA	Analysis	8082A		5	387288	BW2O	EET CF	05/12/23 14:14
Total/NA	Prep	9023			101866	ADL	EET HOU	05/04/23 23:51
Total/NA	Analysis	9023		1	102436	ADL	EET HOU	05/09/23 14:46

[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

Client: Clayton County Recycling
Job ID: 310-254772-1
Project/Site: 042523 AM

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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: 042523 AM

Job ID: 310-254772-1

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)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-29-23
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	09-29-23
Oregon	NELAP	IA100001	09-29-23

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	08-04-23
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Louisiana (All)	NELAP	03054	06-30-23
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-23-50	06-30-23
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: 042523 AM

Job ID: 310-254772-1

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
3546	Microwave 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

eurofins | Environment Testing America

310-254772 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Clayton County Recycling

City/State: CITY Monona STATE IA Project:

Receipt Information

Date/Time Received: DATE 5-2-23 TIME 830 Received By: AL

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

Condition of Cooler/Containers

Sample(s) received in Cooler? ☐ Yes ☒ No *If yes:* Cooler ID: Received in a box

Multiple Coolers? ☐ Yes ☒ No *If yes:* Cooler # _____ of _____

Cooler Custody Seals Present? ☐ Yes ☒ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☒ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

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

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

• **Temp Blank Temperature** – *If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature*

Uncorrected Temp (°C): — Corrected Temp (°C): —

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:	Plastic Bag →	
Uncorrected Temp (°C):	18.4	18.3
Corrected Temp (°C):	18.4	18.3

Exceptions Noted

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

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

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

Additional Comments

TestAmerica INCORPORATED

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613
Phone: 319 - 277 - 2401
Fax: 319 - 277 - 2425

Company: Clayton County Recycling
Send Report To: Gina Roys
Address: 11645 Echo Ave
City/State/Zip Code: Monona IA 52159
Telephone Number: 563-539-4757 Fax: 563-539-4735
Sampled by: (Print Name) Fred Runde
(Signature) Fred Runde

Your PO #: 042523 AM
Invoice To:
TA Quote #:
Project Name:
Project Number:
Project Manager: Gina Roys
Proj. Mgr. Telephone: 563-539-4757
Proj. Mgr. Email: gina@ccrrecycling.com

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H_2SO_4 Plastic (Yellow & White Label)	H_2SO_4 Glass (Yellow & White Label)	None (Black & White Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Oil	Analyze For: PCB	TCLP metals	Flashpoint	Chloride	BTU	pH	PCB (Leachability)	RUSH TAT (Must call ahead!)	Standard TAT	Email Results	Fax Results	Send QC with report
																					X	X	X	X	X	X	X					

NOTES:

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
NOTICE: **Pre-Arrangements must be made *AT LEAST 48 Hours in ADVANCE* to receive results with RUSH turn around time commitments; *additional charges* may be assessed.**
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time

Shipped Via:
Comments:
Shipped Via:

Received for TestAmerica by:	Date	Time	Temperature Upon Receipt:	Laboratory Comments:
ST	5/12/23	0830		

5/12/2023

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-254772-1

Login Number: 254772

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Tucker, Sarah L

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.	False	
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-254772-1

Login Number: 254772
List Number: 2
Creator: Pena, Jesiel

List Source: Eurofins Houston
List Creation: 05/03/23 12:10 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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/12/2023 5:20:42 PM

JOB DESCRIPTION

042523 PM

JOB NUMBER

310-254773-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

my EOL

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
5/12/2023 5:20:42 PM

Authorized for release by
Hannah Dietz, Project Management Assistant I
Hannah.Dietz@et.eurofinsus.com
Designee for
Matthew Hummel, Project Manager I
Matthew.Hummel@et.eurofinsus.com
(319)595-2010

Table of Contents

Job ID: 310-254773-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative
310-254773-1

Receipt
The sample was received on 5/2/2023 8:30 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 18.4°C

Receipt Exceptions
The following sample was received at the laboratory outside the required temperature criteria: 042523 PM (310-254773-1). There was no cooling media present in the cooler.

PCBs
Method 8082A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-386443 and 310-386512.The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8082A: The following sample was tumbled in plastic due to the matrix: 042523 PM (310-254773-1).

Method 8082A: The surrogate recovery for the blank associated with preparation batch 310-386443 and 310-386512 and analytical batch 310-387089 was outside the upper control limits.

Method 8082A: The following sample was diluted due to the nature of the sample matrix: 042523 PM (310-254773-1). 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
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: 042523 PM

Job ID: 310-254773-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-254773-1	042523 PM	Solid	04/25/23 00:00	05/02/23 08:30

Client Sample ID: 042523 PM

Lab Sample ID: 310-254773-1

Date Collected: 04/25/23 00:00

Matrix: Solid

Date Received: 05/02/23 08:30

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		05/05/23 08:03	05/10/23 21:09	1
PCB-1221	<4.00		4.00		ug/L		05/05/23 08:03	05/10/23 21:09	1
PCB-1232	<4.00		4.00		ug/L		05/05/23 08:03	05/10/23 21:09	1
PCB-1242	<4.00		4.00		ug/L		05/05/23 08:03	05/10/23 21:09	1
PCB-1248	<4.00		4.00		ug/L		05/05/23 08:03	05/10/23 21:09	1
PCB-1254	<4.00		4.00		ug/L		05/05/23 08:03	05/10/23 21:09	1
PCB-1260	<4.00		4.00		ug/L		05/05/23 08:03	05/10/23 21:09	1
PCB-1268	<4.00		4.00		ug/L		05/05/23 08:03	05/10/23 21:09	1
Polychlorinated biphenyls, Total	<4.00		4.00		ug/L		05/05/23 08:03	05/10/23 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*99*		*11 - 122*	*05/05/23 08:03*	*05/10/23 21:09*	*1*
Tetrachloro-m-xylene	*79*		*23 - 123*	*05/05/23 08:03*	*05/10/23 21:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.300		0.300		mg/L		05/05/23 10:00	05/09/23 16:49	3
Barium	**0.612**		0.600		mg/L		05/05/23 10:00	05/09/23 16:49	3
Cadmium	**0.150**		0.0600		mg/L		05/05/23 10:00	05/09/23 16:49	3
Chromium	<0.0600		0.0600		mg/L		05/05/23 10:00	05/09/23 16:49	3
Lead	**0.663**		0.300		mg/L		05/05/23 10:00	05/09/23 16:49	3
Selenium	<0.300		0.300		mg/L		05/05/23 10:00	05/09/23 16:49	3
Silver	<0.150		0.150		mg/L		05/05/23 10:00	05/09/23 16:49	3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		05/08/23 11:17	05/09/23 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU (ASTM D240-87)	<500		500		BTU/lb			05/06/23 12:46	1
Flashpoint (ASTM D92)	**>200**		65.0		Degrees F			05/04/23 07:33	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**7.8**	**HF**	0.1		SU			05/04/23 10:00	1

Client Sample ID: 042523 PM

Lab Sample ID: 310-254773-1

Date Collected: 04/25/23 00:00

Matrix: Solid

Date Received: 05/02/23 08:30

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.171		0.171		mg/Kg	☼	05/03/23 12:18	05/08/23 22:09	1
PCB-1221	<0.171		0.171		mg/Kg	☼	05/03/23 12:18	05/08/23 22:09	1
PCB-1232	<0.171		0.171		mg/Kg	☼	05/03/23 12:18	05/08/23 22:09	1
PCB-1242	**6.60**		1.71		mg/Kg	☼	05/03/23 12:18	05/12/23 14:27	10
PCB-1248	<0.171		0.171		mg/Kg	☼	05/03/23 12:18	05/08/23 22:09	1
PCB-1254	<0.171		0.171		mg/Kg	☼	05/03/23 12:18	05/08/23 22:09	1
PCB-1260	<0.171		0.171		mg/Kg	☼	05/03/23 12:18	05/08/23 22:09	1
PCB-1268	<0.171		0.171		mg/Kg	☼	05/03/23 12:18	05/08/23 22:09	1

Client: Clayton County Recycling
Project/Site: 042523 PM

Job ID: 310-254773-1

Client Sample ID: 042523 PM
Date Collected: 04/25/23 00:00
Date Received: 05/02/23 08:30

Lab Sample ID: 310-254773-1
Matrix: Solid
Percent Solids: 84.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*24*	*p*	*10 - 149*	*05/03/23 12:18*	*05/08/23 22:09*	*1*
Tetrachloro-m-xylene	*30*		*10 - 147*	*05/03/23 12:18*	*05/08/23 22:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic (SW846 9023)	**2690**		593		mg/Kg	☼	05/04/23 23:51	05/09/23 14:46	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 042523 PM

Job ID: 310-254773-1

Client Sample ID: 042523 PM

Lab Sample ID: 310-254773-1

Date Collected: 04/25/23 00:00

Matrix: Solid

Date Received: 05/02/23 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			386443	FK4Z	EET CF	05/04/23 14:00 - 05/05/23 06:00 [1]
TCLP	Prep	3510C			386512	Y6AF	EET CF	05/05/23 08:03
TCLP	Analysis	8082A		1	387089	BW2O	EET CF	05/10/23 21:09
TCLP	Leach	1311			386440	FK4Z	EET CF	05/04/23 14:00 - 05/05/23 06:00 [1]
TCLP	Prep	3010A			386530	KCK5	EET CF	05/05/23 10:00
TCLP	Analysis	6010D		3	386954	A6US	EET CF	05/09/23 16:49
TCLP	Leach	1311			386440	FK4Z	EET CF	05/04/23 14:00 - 05/05/23 06:00 [1]
TCLP	Prep	7470A			386762	XXW3	EET CF	05/08/23 11:17
TCLP	Analysis	7470A		1	386952	XXW3	EET CF	05/09/23 14:46
Soluble	Leach	DI Leach			386253	WZC8	EET CF	05/03/23 12:06
Soluble	Analysis	9045D		1	386402	D7CP	EET CF	05/04/23 10:00
Total/NA	Analysis	D240-87		1	102049	PSC	EET HOU	05/06/23 12:46
Total/NA	Analysis	D92		1	386357	WZC8	EET CF	05/04/23 07:33

Client Sample ID: 042523 PM

Lab Sample ID: 310-254773-1

Date Collected: 04/25/23 00:00

Matrix: Solid

Date Received: 05/02/23 08:30

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			386255	GW4G	EET CF	05/03/23 12:18
Total/NA	Analysis	8082A		1	386818	BW2O	EET CF	05/08/23 22:09
Total/NA	Prep	3546			386255	GW4G	EET CF	05/03/23 12:18
Total/NA	Analysis	8082A		10	387288	BW2O	EET CF	05/12/23 14:27
Total/NA	Prep	9023			101866	ADL	EET HOU	05/04/23 23:51
Total/NA	Analysis	9023		1	102436	ADL	EET HOU	05/09/23 14:46

[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
Job ID: 310-254773-1
Project/Site: 042523 PM

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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: 042523 PM

Job ID: 310-254773-1

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)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-29-23
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	09-29-23
Oregon	NELAP	IA100001	09-29-23

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	08-04-23
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Louisiana (All)	NELAP	03054	06-30-23
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-23-50	06-30-23
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: 042523 PM

Job ID: 310-254773-1

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
3546	Microwave 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

eurofins | Environment Testing America

310-254773 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Clayton County Recycling

City/State: CITY Monona | STATE IA | Project:

Receipt Information

Date/Time Received: DATE 5-2-23 | TIME 830 | Received By: AL

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

Condition of Cooler/Containers

Sample(s) received in Cooler? ☐ Yes ☒ No *If yes:* Cooler ID: Received in a box

Multiple Coolers? ☐ Yes ☒ No *If yes:* Cooler # _____ of _____

Cooler Custody Seals Present? ☐ Yes ☒ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☒ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

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

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

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): — | Corrected Temp (°C): —

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:	Plastic Bag →	
Uncorrected Temp (°C):	18.4	18.3
Corrected Temp (°C):	18.4	18.3

Exceptions Noted

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

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

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

Additional Comments

TestAmerica INCORPORATED

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613
Phone: 319 - 277 - 2401 or 1 - 800 - 709 - 2401
Fax: 319 - 277 - 2425

Company: Clayton County Recycling
Send Report To: Gina Roys
Address: 11645 Echo Ave
City/State/Zip Code: Monona IA 52159
Telephone Number: 563-539-4757 Fax: 563-539-4735
Sampled by: (Print Name) Fred Runde
(Signature) Fred Runde

Your PO #: 042523PM
Invoice To:
TA Quote #:
Project Name:
Project Number:
Project Manager: Gina Roys
Proj. Mgr. Telephone: 563-539-4757
Proj. Mgr. Email: gina@ccrecycling.com

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H2SO4 Plastic (Yellow & White Label)	H2SO4 Glass(Yellow & White Label)	None (Black & White Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Oil	Analyze For: PCB	TCLP metals	Flashpoint	Chloride	BTU	pH	TCLP PCB	Leachability	RUSH TAT (Must call ahead)	Standard TAT	Email Results	Fax Results	Send QC with report
																					X	X	X	X	X	X	X	X					

NOTES:

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
NOTICE: **Pre-Arrangements must be made *AT LEAST 48 Hours In ADVANCE* to receive results with RUSH turn around time commitments; *additional charges* may be assessed.**
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time

Shipped Via:
Comments:

Shipped Via:				
Received for TestAmerica by: GT	Date 5/12/23	Time 0830	Temperature Upon Receipt:	Laboratory Comments:

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-254773-1

Login Number: 254773

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Tucker, Sarah L

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.	False	
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-254773-1

Login Number: 254773
List Number: 2
Creator: Pena, Jesiel

List Source: Eurofins Houston
List Creation: 05/03/23 12:10 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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	