April 23, 2025

Brad Davison
Environmental Specialist
IDNR – Land Quality Bureau
6200 Park Avenue Suite 200
Des Moines, IA 50321



RE: BIENNIAL INSPECTION REPORT – 2025 CHICKASAW COUNTY SANITARY LANDFILL (CLOSED) HLW PN 6054-23A.750

Dear Mr. Davison,

In accordance with Item 7.e of the Environmental Covenant between IDNR and Chickasaw County, Iowa, a biennial inspection of the Chickasaw County Sanitary Landfill was personally conducted the afternoon of April 9, 2025. I was accompanied on the inspection by Chad Humpal, Director, Chickasaw County Conservation. Conditions at the time of the inspection were partly cloudy with light winds and temperatures in the 50's.

Status of the Permit

The Environmental Covenant was recorded with the Chickasaw County Recorder's Office as Instrument #2024-1306 on August 13, 2024 (Doc #110832). As a result, IDNR SDP Permit Number 19-SDP-01-72C was rescinded in the IDNR letter dated September 16, 2024 (Doc #110876). This letter also served as "notice of termination of the regulated post-closure care period for the Chickasaw County Sanitary Landfill".

Environmental Covenant, Item 7 - Activity and Use Limitations and Terms

General Restrictions

- a. No excavations greater than 2' have been completed on the property.
- No waste has been excavated, disrupted, or removed from the closed landfill site.
- c. No drinking water wells have been constructed within the boundaries of the property.
- d. No residences have been constructed with the boundaries of the property.
- e. This report serves as the initial biennial inspection.

Specific Restrictions

f. Restrictions and use limitations and terms due to continued management of landfill gas:

- 1) No enclosed structures have been placed or constructed on the landfill cap.
- 2) No controlled burns have been conducted on the property.
- g. Restrictions and use limitations and terms due to continued management of leachate:
 - The leachate control system is being operated and maintained. Leachate collected from the leachate control system is disposed of at the City of Fredericksburg Publicly Owned Treatment Works (POTW). Additional discussion on the leachate control system is contained later in this report.
- h. Restrictions and use limitations and terms related to site access:
 - 1) The landfill entrance is secured by a locked gate. The fencing near the front entrance gate is being maintained.
- i. Restrictions and use limitations and terms related to land use:
 - 1) The integrity of the landfill cap is being maintained. Additional discussion on the landfill cap is contained in the text below.

Landfill Cap Integrity

The landfill vegetation is in excellent condition. No bare spots of any consequence are noted at this time. Some tree growth was noted on the cap during the inspection. Mr. Humpal reported that trees are spot removed and treated as needed.

The seep areas (3) repaired in 2023 were reviewed. The repairs are intact and the rock appears to have worked well to date to contain seepage and limit wildlife damage to the repaired areas.

There was one area of ponded water noted in a rut created when the monitoring wells were abandoned. The approximate location of the rut is included on the attached figure.

Leachate Control System

Leachate is hauled to the City of Fredericksburg POTW for treatment and disposal. One load of leachate with an approximate capacity of 2,100 gallons was hauled per month in 2023 and 2024 to the City of Fredericksburg (25,200 gallons per year). Leachate testing results for 2023 and 2024 are included in Attachment A.

Leachate piezometers were installed in January, 2025 to measure leachate levels at five (5) locations at the landfill. The locations of the piezometers are shown on the

attached figure. Monthly (at a minimum) leachate level measurements began in April, 2025. This data is being collected with the goal of having sufficient data to determine if leachate hauling can stop in the future.

Additional Comments

All monitoring wells on site have been properly abandoned by a Certified Well Contractor. The following were abandoned on January 16, 2025, February 6, 2025, and February 7, 2025:

MW-1, MW-2, MW-3, MW-4, PZ-2A, PZ-2B, PZ-3A, PZ-3B, PZ-3C, PZ-4A, PZ-4B, PZ-4C, PZ-5A, PZ-5B, PZ-5C, PZ-6, PZ-7, PZ-9A, PZ-9B, PZ-9C, PZ-10, MW-11, MW-12, MW-13, MW-14, MW-15, AND MW-16

Abandonment documentation was submitted to IDNR on March 25, 2025 (Doc #112592).

This report is based on observations made at the site at the time of the inspection and the information sources referenced in the report. This report does not reflect typical variations experienced at the site throughout the year or variations in conditions that may be observed at the site at other times.

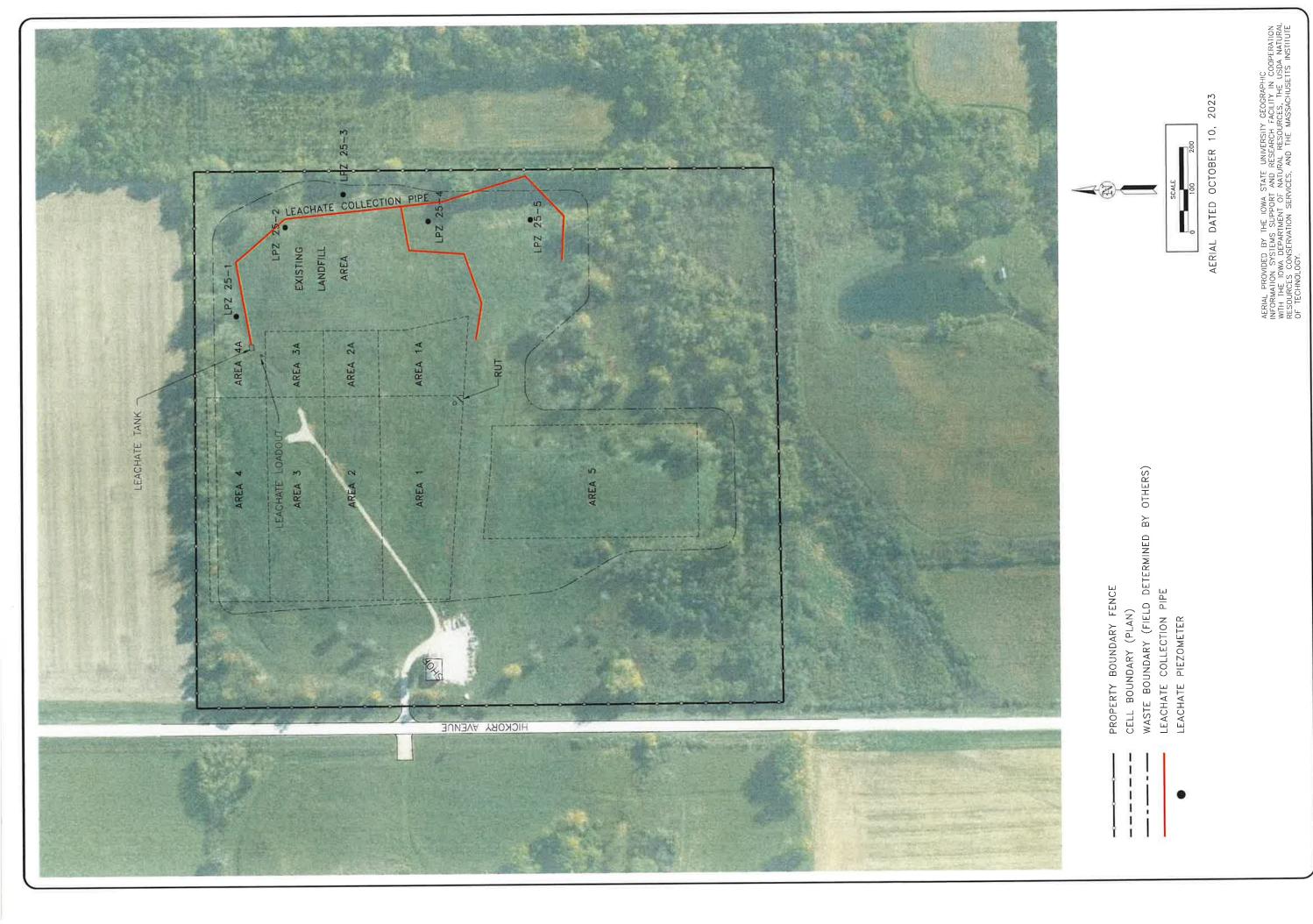
Recommendations

cc:

- 1. Fill in rut caused during monitoring well removal.
- 2. Remove trees from cap.
- 3. Continue collection and disposal of leachate as per the Environmental Covenant.
- 4. Continue to monitor vegetation and erosion and repair as necessary.
- 5. Continue to monitor diversion and drainage systems and repair as necessary.



Chad Humpal, Director, Chickasaw County Conservation (electronic copy)



BIENNIAL INSPECTION 2025

HLW Engineering Group 204 West Broad Street, P.O. Box 314 Story City, Iowa 50248 Phone: (515) 733-4144 FAX: (515) 733-4146

CHICKASAW COUNTY SANITARY LANDFILL IONIA, IOWA

PROJECT NO. 6054-25A REVISION DRAWN JGH

DATE 4/10/25 DATE FIGURE:

Attachment A

Leachate Testing Results

PREPARED FOR

Attn: Ray Armbrecht City of Fredericksburg 151 West Main St. PO BOX 318 Fredericksburg, Iowa 50630 Generated 2/16/2023 8:33:23 AM

ANALYTICAL REPORT

JOB DESCRIPTION

Wastewater

JOB NUMBER

310-249055-1

Eurofins Cedar Falls 3019 Venture Way Cedar Falls IA 50613

See page two for job notes and contact information.

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Eurofins Cedar Falls

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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

Generaled 2/16/2023 8:33:23 AM

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



Case Narrative

Job Narrative 310-249055-1

Client: City of Fredericksburg Project/Site: Wastewater

Laboratory: Eurofins Cedar Falls

Job ID: 310-249055-1

Job ID: 310-249055-1







Comments

Narrative

No additional comments.

Receipt

The sample was received on 2/2/2023 2:40 PM. 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 was 8.3° C.

Receipt Exceptions

The following sample was received at the laboratory outside the required temperature criteria: Landfill Leachate (310-249055-1). This does not meet regulatory regulrements.

GC/MS VOA

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

GC/MS Semi VOA

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

GC Semi VOA

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

Method 200.8: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of >2: Lendfill Leachate (310-249055-1). The sample(s) was preserved to the appropriate pH in the laboratory.

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

General Chemistry

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

Organic Prep

Method 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-378384. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 608: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-378400. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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

VOA Prep

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

Sample Summary

Collected

02/01/23 11:00

Received

02/02/23 14:40

Matrix

Water

Client: Clty of Fredericksburg Project/Site: Wastewater

Lab Sample ID

Job ID: 310-249055-1







310-249055-1 Landill Leachale

Cilent Sample ID

Client: City of Fredericksburg Project/Site: Wastewater Job ID: 310-249055-1

Client Sample ID: Landfill Leachate

Date Collected: 02/01/23 11:00 Date Received: 02/02/23 14:40 Lab Sample ID: 310-249055-1

Matrix: Water

Analyte	Result	Qualifler	RL	MDL	Unit	D	Analyzed	DII Fac	Analyst
,1,1-Trichloroethane	<1.00		1.00		ug/L		02/03/23 15:19	1	WSE8
1,1,2,2-Tetrachtoroethane	<1.00		1,00		ug/L		02/03/23 15:19	1	WSE8
,1,2-Trichloroethane	<1.00		1.00		ug/L		02/03/23 15:19	1	WSE8
1,1-Dichloroethane	<1.00		1.00		ug/L		02/03/23 15:19	1	WSE8
I,1-Dichloroethene	<1,00 <1,00 <2,00 <1,00		2.00		ug/L		02/03/23 15:19	1	WSE8
,2-Dichloroethane	راب <1.00		1.00		ug/L		02/03/23 15:19	1	WSE8
,2-Dichloroethene, Total	<1,00		1.00	• • • • • • • • • •	ug/L	• • • • • •	02/03/23 15:19	1	WSE8
1,2-Dichloroethene, Total 1,2-Dichloropropane	<1,00		1.00		ug/L		02/03/23 15:19	1	WSE8
1,3-Dichloropropene, Total	<5,00		5,00		ug/L		02/03/23 15:19	1	WSE8
2-Chloroethyl vinyl ether	<2,00	••• • • • • •	2,00		ug/L	• •	02/03/23 15:19	1	WSE8
Benzene	1.38		0,500		ug/L		02/06/23 13:06	1	WSE8
Bromodichloromethane	<1.00	9	1.00		ug/L		02/03/23 15:19	1	WSE8
Bromoform	<5.00		5,00		ug/L	 .	02/03/23 15:19	··· ··· ·	WSE8
3romomethane	<4.00		4.00		ug/L		02/03/23 15:19	1	WSE8
Carbon tetrachloride	<2,00		2.00		ug/L		02/03/23 15:19	1	WSE8
Chlorobenzene	2.52	** ** **	1,00		ug/L		02/03/23 15:19	1	WSEB
Dibromochloromethane	<5.00		5.00		ug/L		02/03/23 15:19	1	WSE8
Chloroathane	<4.00		4,00		ug/L		02/03/23 15:19	1	WSE8
Chloroform	<3.00	•	3,00	• • •	ug/L		02/03/23 15:19	· 1	WSE8
Chloromethene	<3.00		3,00		ug/L		02/03/23 15:19	1	WSE8
Ethylbenzene	<1.00		1.00		ug/L		02/03/23 15:19	1	WSE8
Methylene Chloride	<5.00		5.00		ug/L		02/03/23 15:19	1	WSE8
Telrachloroethene	<1.00		1.00		ug/L		02/03/23 15:19	1	WSE8
Toluene	<1.00		1.00		ug/L		02/03/23 15:19	1	WSE8
Trichloraethene	<1.00		1.00		ug/L		02/03/23 15:19	1	WSE8
Vinyi chloride	<1.00		1.00		ug/L		02/03/23 15:19	1	WSE8
Surrogale	%Recovery	Qualifier	Limits				Analyzed	DII Fac	Analyst
Dibromofluoromethane (Surr)	103		70 - 130				02/03/23 15:19	1	WSE8
Dibromoliuoromethene (Surr)	108		70 - 130				02/06/23 13:06	1	WSE8
Toluene-d8 (Surr)	100		70 - 130				02/03/23 15:19	1	WSE8
Toluene-d8 (Surr)	103		70 - 130				02/06/23 13:06	1	WSE8
4-Bromofluorobenzene (Surr)	99		70 - 130				02/03/23 15:19	1	WSEB
4-Bromofluorobenzene (Surr)	105		70 - 130				02/06/23 13:06	1	WSE8

Method: 625.1 - Semivolatile Or	Method: 625.1 - Semivolatile Organic Compounds (GC/MS)								
Analyte	Result Qualifler	RL	MDL Unit	D Analyzed I	DII Fac	Analyst			
Acenaphihene	<9.62	9.62	ug/L	02/06/23 18:60	1	LOFS			
Acenaphthylene	<9.62	9.62	ug/L	02/06/23 18:50	1	LOFS			
Anthracene	<9.62	9,62	ug/L	02/08/23 18:50	1	LOFS			
Benzo[a]anthracene	<9.62	9,62	ug/L	02/06/23 18:50	1	LOFS			
Benzo[a]pyrene	<9.62	9.82	ug/L	02/08/23 18:50	1	LOFS			
Benzo[b]Nuoranthene	<9.62	9.62	ug/L	02/06/23 18:60	1	LOFS			
Benzo[g,h,f]perylene	<9.62	9.62	ug/L	02/08/23 18:50	1	LOFS			
Benzolc acid	<86.2	96.2	ug/L	02/06/23 18:50	1	LOFS			
Benzo[k]fluoranthena	<9.62	9.62	ug/L	02/06/23 18:50	1	LOFS			
Benzyl alcohol	<9.62	9,62	ug/L	02/06/23 18:50	1	LOFS			
Bis(2-chloroethoxy)methane	<9.62	9,62	ug/L	02/06/23 18:50	1	LOFS			
Bis(2-chloroethyl)ether	<9.62	9,62	ug/L	02/06/23 18:50	1	LOFS			
bis (2-chloroisopropyi) ether	<9.62	9,62	ug/L	02/08/23 18:50	1	LOFS			

Eurofins Cedar Falls

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2/16/2023

Client: City of Fredericksburg Project/Site: Wastewater

Job ID: 310-249055-1

Lab Sample ID: 310-249055-1

LOFS

1 LOFS

1 LOFS

1 LOFS

1 LOFS

1 LOFS

1 LOFS

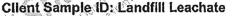
1 LOFS

1 LOFS

LOFS

1

Matrix: Water



Date Collected: 02/01/23 11:00 Date Received: 02/02/23 14:40

Dimethyl phthalate

Oi-n-butyl phthalate

2,4-Dinitrophenol 2,4-Dinitrotokuene

2,6-Dinitrotoluene

Di-n-octyl phthalate

Hexachlorobenzena

Hexachlorobutadiene

Hexachloroethane

Isophorone

Naphthalene

Nitrobenzene

2-Nitrophenol

4-Nitrophenol

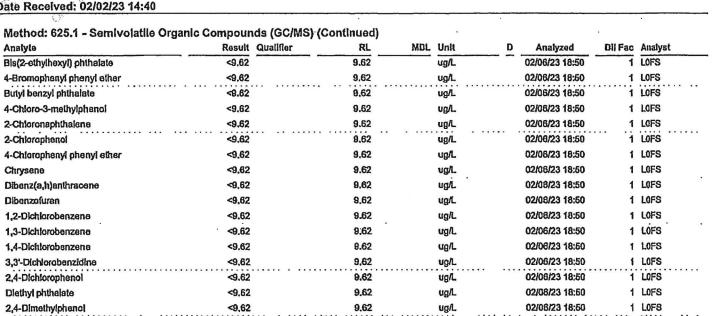
Indeno[1,2,3-cd]pyrene

Hexachlorocyclopentadiene

Fluoranthene

Fluorene

4,6-Dinitro-2-methylphenol



9.62

9,62

9.62

19.2

9.62

9.62

19.2

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02/08/23 18:50

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02/06/23 18:50

02/08/23 18:50

<9.82

<9.62

<9.62

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<19.2

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<9.62

<9.62

<9.62

- 1				-		
	N-Nitrosodi-n-propylamine	<9.62	9.62	ug/L	02/08/23 18:50	1 LOFS
	N-Nitrosodiphenylamine	<9.62	9.62	ug/L	02/06/23 18:50	1 LOFS
į	Pentechlorophenol	<9.62	9,62	ug/L.	02/06/23 18:50	1 LOFS
	Phenanthrene	<9.62	9,62	ug/L	02/06/23 18:50	1 LOFS
	Pyrene	<9.62	9,62	ug/L	02/08/23 18:50	1 LOFS
	1,2,4-Trichlorobenzene	<9,62	9.62	ug/L	02/06/23 18:50	1 LOFS
	2,4,5-Trichlorophenol	<9.62	9.62	ug/L	02/08/23 18:50	1 LOFS
	2,4,6-Trichlorophenal	<9.62	9,62	ug/L	02/08/23 18:50	1 LOFS
	Surrogata	%Recovery Qualifler	Limits		Analyzed	Dil Fac Analyst
	2-Fluoroblphenyl (Surr)	71	28 - 110		02/06/23 18:50	1 LOFS
	2-Fluorophenal (Surr)	<i>5</i> 2	13 - 110		02/06/23 18:50	1 LOFS
	Nitrobenzene-d5 (Surr)	79	27 - 115		02/06/23 18:50	1 LOFS
	Phanol-d5 (Surr)	48	12-110		02/06/23 18:50	1 LOFS

Eurofins Cedar Falls

Client: Clly of Fredericksburg

Project/Site: Wastewater

Job ID: 310-249055-1

Client Sample ID: Landfill Leachate

Date Collected: 02/01/23 11:00 Date Received: 02/02/23 14:40

Lab Sample ID: 310-249055-1

Matrix: Water

ı	Surrogale	%Recovery	Qualifier	Limits	_	Analyzed	DH Fac	Analyst
١	Terphanyl-d14 (Surr)	61		10 - 126		02/06/23 18:50	1	LOFS
١	2,4,6-Tribromophenol (Surr)	55		15 - 121	13	02/06/23 18:50	1	LOFS

Method:	608.3 - Org	ganochlorine	Pesticides	In Water
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l	Analyte	Result	Qualitier RL	MDL Unit	D	Analyzod	DII Fac	Analyst
ı	Aldrin	<0.0640	0.0840	ug/L		02/07/23 20:23	1	BW2O
١	beta-BHC	<0.0840	0.0840	ug/L		02/07/23 20:23	1	BW2O
ı	Chlordane (technical)	<2.00	2,00	ug/L		02/07/23 20:23	1	BW2O
١	4,4'-DDD	<0,0840	0.0840	ug/L		02/07/23 20:23	1	BW2O
I	4,4'-DDE	<0.0840	0.0640	ug/L		02/07/23 20:23	1	BW2O
I	4,4'-DDT	<0.0840	0.0640	ug/L .	20073 W. (00000000000000000000000000000000000	02/07/23 20:23	. 1	BW2O
١	delta-BHC	<0.0840	0.0640	ug/L		02/07/23 20:23	1	BW2O
١	Dieidrin	<0.0840	0.0640	ug/L		02/07/23 20:23	1	BW2O
	Endosulfan I	<0.0840	0.0840	ug/L		02/07/23 20:23	1	BW2O
	Endosulfan II	<0.0840	0.0640	ug/L		02/07/23 20:23	1	8W2O
	Endosulfan sulfate	<0.0640	0.0840	ug/L		02/07/23 20:23	1	BW2O
1	Endrin	<0.0840	0,0640	ug/L		02/07/23 20:23	1	BW2O
	Endrin aldehyde	<0.0840	0.0840	ug/L		02/07/23 20:23	1	BW2O
	gemma-BHC (Lindane)	<0.0840	0,0640	ug/L		02/07/23 20:23	1	BW2O
	Heptachlor	<0.0640	0.0840	ug/L		02/07/23 20:23	1	BW2O
	Heplachlor epoxide	<0.0840	0.0640	ug/L		02/07/23 20:23	1	BW2O
١	Toxaphene	<2.00	2.00	ug/L		02/07/23 20:23	1	BW2O

Surrogate	%Recovery	Qualifler	Limits	Analyzed	DII Fac	Analyst
DCB Decachloroblphenyl (Surr)	49		10 - 136	02/07/23 20:23	1	BW2O
Telrachloro-m-xylene	70		10 - 130	02/07/23 20:23	1	BW2O

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) Result Qualifier

PCB-1016	<0.800	0.800	ug/L	02/07/23 20:23	1	BW2O
PCB-1221	<0.800	008.0	ug/L	02/07/23 20:23	1	BW2O
PCB-1232	<0.800	008,0	ug/L	02/07/23 20:23	1	BW2O
PCB-1242	<0.800	0.800	ug/L	02/07/23 20:23	1	BW2O
PCB-1248	<0.800	008.0	ug/L	02/07/23 20:23	1	BW2O
PCB-1254	<0.800	0.800	ug/L	02/07/23 20:23	1	BW2O
PCB-1260	<0,800	0.800	ug/L	02/07/23 20:23	1	BW2O
Surrogate	%Recovery	Qualifler Limits		Analyzed	Dil Fac	Analyst
DCB Decachloroblphenyl (Surr)	49	10 - 136		02/07/23 20:23	1	BW2O
Tetrachloro-m-xylene (Surr)	70	10 - 130		02/07/23 20:23	1	BW2O

MDL Unit

Method: 200.8 - Metals (ICP/MS)

Analyte

1	mothod. 200.0 - metalo (ioi mioj								
	Analyte	Result	Qualifier RL	MDL	Unit	D	Analyzed	DII Fac	Analyst	
	Arsenic	0.00312	0.00200		mg/L		02/10/23 21:10	1	AGUS	
	Barlum	0.311	0.00200		mg/L		02/10/23 21:10	1	A6US	
	Cadmlum	<0.000100	0,000100		mg/L		02/10/23 21:10	1	ABUS	
	Chromlum	<0.00500	0.00500		mg/L		02/10/23 21:10		A6US	• •
i	Copper	<0.00500	0.00500		mg/L		02/10/23 21:10	1	ABUS	
	Iron	27.9	0,100		mg/L		02/10/23 21:10	1	A6US	
	Lead	0.000922	0.000500		mg/L		02/10/23 21:10	1	A6US	•

Eurofins Cedar Falls

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2/16/2023











Client: City of Fredericksburg Project/Site: Wastewater Job ID: 310-249055-1

055-1

Client Sample ID: Landfill Leachate

Date Collected: 02/01/23 11:00 Date Received: 02/02/23 14:40 Lab Sample ID: 310-249055-1

Matrix: Water



Method: 200.8 Metals (ICP/MS) (C	ontinued)						(*)		
Analyte	Result Qualifler	RL	MDL	Unit	D	Analyzed	Dli Fac	Analyst	
Selenium	<0.00500	0.00500		mg/L		02/10/23 21:10	1	A6US	
Silver	<0.00100	0.00100		mg/L		02/10/23 21:10	1	A6US	
Nickel	0.0143	0.00500		mg/L		02/10/23 21:10	1	A6US	0
Zinc	<0.0200	0.0200		mg/L		02/10/23 21:10	1	A6US	
_									

Method: 245.2 - Mercury (CVAA)										
Analyte	Result	Qualifler	RL	WDL	Unit	D	Analyzed	DII Fac	Analyst	
Mercury	<0.000200		0.000200	-	mg/L	_	02/08/23 11:28	1	DHM5	

General Chemistry									
Analyte	Result	Qualifler	RL	MDL	Unit	Ð	Analyzed	DII Fac	Analyst
HEM (Oil & Grease)	<4.7	F1	4.7	;	mg/L		02/09/23 08:30	1	DGU1
Ammonia	71.0		25.0		mg/L		02/07/23 20:39	1	ZJX4
Nitrogen, Kjeldahl	88.1		10.0		mg/L		02/06/23 11:09	10	HE7K
Total Suspended Solids	98.0		30.0		mg/L		02/03/23 08:00	1	DGU1
Total Dissolved Solids	1260		50.0		mg/L		02/07/23 15:14	1	ENB7
Blochemical Oxygen Demand	10,9		3.00		mg/L		02/02/23 15:32	1	W9YR
Total Organic Carbon - Average	30.2		1,00		mg/L		02/13/23 17:58	1	BC
Dup									



Accreditation/Certification and Definitions Summary

Client: City of Fredericksburg Project/Site: Wastewater Job ID: 310-249055-1

Laboratory: Eurofins Cedar Falls

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

Authority	1) " " " " " " " " " " " " " " " " " " "	Program	Identification Number	Expiration Date
lowa	dei W	State	. 007	12-01-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer cartification.

Analysis Method	Prep Method	Matrix	Analyte	
624.1		Water	1,2-Dichloroethene, Total	
624.1		Water	1,3-Dichloropropene, Total	
625,1	625	Water	1,2-Dichlorobenzene	
625,1	625	Water	1,3-Dichlorobenzene	
625.1	625	Water	1,4-Dichlorobenzene	
625.1	625	Water	Dibenzofuran	

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
California	State	2903	04-29-23
Georgia	State	N/A	04-30-23
Georgia (DW)	State	939	04-30-23
Hawali	State	NA	04-29-23
Ilinois	NELAP	(L00035	04-30-23
Indiana	State	C-IL-02	04-29-23
lowa	State	082	05-01-24
Kenses	NELAP	E-10161	10-31-23
Kentucky (UST)	State	AI # 108083	04-29-23
Kentucky (WW)	State	KY90023	12-31-22 1
Louisiana (Ali)	NELAP	02046	06-30-23
Mississippi	State	NA	04-30-23
North Carolina (WW/SW)	State	291	12-31-23
North Dakota	State	R-194	04-30-23
Oklahoma	State	8908	08-31-23
South Carolina	State	77001003	04-29-23
USDA	US Federal Programs	P330-18-00018	02-11-24
Wisconsin	State	P330-18-00018 999580010	02-11-24 08-31-23
Wyoming	State	BTMS-Q	04-30-23

Qualifiers

General Chemistry

Qualifler	Qualifler Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
p	Listed under the "O" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit

^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid,

Eurofins Cedar Falls

Accreditation/Certification and Definitions Summary

Client: City of Fredericksburg Project/Site: Wastewater Job ID: 310-249055-1

Glossary (Continued)

Abbroviation These commonly used abbreviations may or may not be present in this report.

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/DQE)

LOQ Limit of Quantitation (DoD/DQE)

MCI. EPA recommended "Maximum Conteminant 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
MRL Method Reporting Limit

NC Not Calculated

NO 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 Retio (Rediochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

SDL Sample Detection Limit
SDL Sample Detection Limit
SDL Sample Detection Limit

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

* Accreditation/Certification renewal pending - accreditation/certification considered valid.







Method Summary

Client: City of Fredericksburg Project/Site: Wastewater

Job ID: 310-249055-1

Method	Mathod Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET CF
625,1	Semivolatie Organic Compounds (GC/MS)	EPA	EETCF
608.3	Organochlorine Pesticides in Water	40CFR138A	EET CF
608.3	Polychlorinated Biphenyls (PCBs) (GC)	40CFR138A	EETCF
200.8	Metals (ICP/MS)	EPA	EETCF
245.2	Mercury (CVAA)	EPA	EET CF
1664A	HEM and SGT-HEM by Extraction and Gravimetry	40CFR138A	EET CF
350.1	Nitrogen, Ammonia	EPA	EETCF
351,2	Nitrogen, Total Kjeldshi	EPA	EETCF
1-3765-85	Residue, Non-filterable (TSS)	USGS	EETCF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EETCF
SM 5210B	BOD, 5-Day	SM	EET CF
SM 5310C	TOC	SM	EET CHI
1864A	HEM and SGT-HEM (SPE)	1884A	EET CF
200.8	Preparation, Total Metals	EPA	EET CF
245.1	Preparation, Mercury	EPA	EETCF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
608	Liquid-Liquid Extraction (Separatory Funnel)	40CFR138A	EETCF
625	Liquid-Liquid Extraction	40CFR136A	EETCF
Distill/Ammonia	Distillation, Ammonia	None	EET CF

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3018 Venture Way, Cedar Falls, IA 60613, TEL (319)277-2401 EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200 The the front white the control of t

Environment Testing America



	eurofins	Environment Testing America		249055 Chain of Custody
	# 1 Oc. 18 1 -	ooler/Sample Receipt ar	nd Temperature Li	og Form
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	Delivery Type: UPS	FedEx	☐ FedEx Ground	☐ US Mail ☐ Spee-Dee
	[≥ Lab C	Couner 🗌 Lab Fleld Services	☐ Client Drop-off	Other:
	Condition of Cooler/Conte			
	Sample(s) received in Co	ooler? ZYes No	If yes: Cooler ID:	
	Multiple Coolers?	☐ Yes EKwo	If yes: Cooler #	of
	Cooler Custody Seals Pro			dy seals intact? Yes
	Sample Custody Seals P No		If yes: Sample custo	ody seals Intact? Yes
	Trlp Blank Present?	☐ Yes ☐ TNo	If yes: Which VOA:	samples are in cooler? 1
	Temperature Record			
	Coolant: Wet Ice	☐ Blue Ice ☐ Dry Ice	γ	NONE
*	Thermometer ID:		Correction Factor (°C	
		B - 11 no temp blank, or temp blank te	1	oceed to Sample Container Temperature
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	• Sample Container Tempe Container(s) used:	CONTAINER 1	CONTAIN CONTAIN	1 750 Will .
	Uncorrected Temp (°C):	84	(A)	9,(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Corrected Temp (°C):	845		9,2
	Exceptions Noted			
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	(e g., bulging septa,	C, are there obvious signs tha broken/cracked bottles, frozen	solid?)	e containers is compromised?
	Note: If yes, contact P Additional Comments	M before proceeding If no, proc	eed with login	
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Eurollas Cedar Falls 15

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Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Pleas	e List any E	PA Waste	Codes for	the samp	le in the	S	ampl	le Dis	posal	(A	fee r	nay	be a	sses	sed r	fsan	ples	are r	etaine
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Bottle Order Information

Bottle Order

Landfill Leachate

Bottle Order # Request From Client 2/1/2023

17000

Date Order Posted 1/28/2021 8 50 03AM

Order Status. Prepared By Shirley Thompson Deliver By Date:

Ready To Process

2/2/2023 11:59:00PM Lab Project Number 31001577

PWSID.

Order Completion Information

Matthew Hummel

Creator:

Filled by Sent Date Sent Via Tracking #. .

Sets	Bottles/Sef	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	
* 1	ા ^{ત્રાથ} 1	1	Plastic 250ml - with Sulfune Acid	Sulfunc Acid		Water	Normal	A
1	1	1	Plastic 250ml - with Nitric Acid	Nitric Acid	245.2 - Mercury	Water	Nomal	
					200 8_CWA - Metals	Water	Normal	
1	3	3	Voa Vial 40ml - Hydrochlone Acid	Hydrochloric Acid		Water	Normal	
1	6	6	Amber Glass 250ml - unpreserved	None		Water	Nomal	ε
1	1	1	Plastic 1 liter - unpreserved	None		Water	Normal	В
D _{an}	2	2	Amber Glass 1L Narrow - Sulfunc Acid	Sulfunc Acid		Water	Normal	
1	3	3	Voa Vial 40ml - with Sulfuric Acid	Sulfunc Acid		Water	Normal	
1	3	3	Voa Vial 40ml - unpreserved	None		Water	Normal	

Total Bottle Summary			
Bottle Type Description	Preservative	Bottle Co	ount
Amber Glass 1L Narrow - Sulfunc Acid	Sulfunc Acid		2
Amber Glass 250ml - unpreserved	None		6
Plastic 1 liter - unpreserved	None		1
Plastic 250ml - with Nitric Acid	Nitric Acid		1
Plastic 250ml - with Sulfunc Acid	Sulfunc Acid		1/
Voa Vial 40ml - Hydrochlone Acid	Hydrochlone Acid	-	3
Voa Vial 40ml - unpreserved	None		3
Voa Vial 40ml - with Sulfunc Acid	Sulfunc Acad		3
		Total Bottles:	20

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provi

Shipping Order ID 77893

2/16/2023

Page 3 of 4

Eurofins Cedar Falls

3019 Venture Way

Cedar Fails IA 50613 Phone 319-277-2401 Fax 319 277 2425

Chain of Custody Record

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Chickosau	County Leachate	/ Metals/ () vinity	Unit 1	، اده	Amount-
J249055-1	Wastewater	02/02/2023		The second second second	September 1	Marienda Carrella Company
	1664A - Oil and Circase (HEM)		1.00	3	47.00	47.00
1	245.2 - Mercury		1.00	:	18.75	18.75
	SM 2540C - TDS	i	1.00	į	10.00	10.00
	350.1 - Ammonia		1.00	:	31.00	21,00
	351.2 - TKN	1	1.00	ļ	29.00	29.00
	608.3 - PCBs		1.00	1	80.00	80.00
	608.3 Posticides		1,00		00.00	100,00
	624.1 - Volatiles		1.00	: '	90.45	90.45
	625.1 - Semivolatiles		1.00	! :	50.00	250.00
	1-3765-85 - TSS	I	1.00	, -	0.00	10.00
	SM 5210B - BOD		1.00	1	21.00	21.00
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J249055-1	Wastewater	02/02/2023		1		
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	200.8 - Barium		1.00	1	9.00	9.00
	200,8 - Cadmium		1.00	1:	9.00	9.00
	200.8 - Chromium	**	1.00	1	9.00	9.00
1	200.8 - Copper	•	1.00	li l	9.00	9.00
	200.8 - Iron		1.00	1	9.00	9.00
	200.8 - Lead		1.00		9.00	9.00
	200.8 - Nickel		1.00]:	9.00	9.00
1	200.8 - Selenium		1.00	1: 1	9.00	9.00
1	200.8 - Silver		1.00		9.00	9.00
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Tole1 #716.20

Tietre hatty



ANALYTICAL REPORT

PREPARED FOR

Attn: Ray Armbrecht City of Fredericksburg 151 West Main St. PO BOX 318 Fredericksburg, Iowa 50630

Generated 2/19/2024 9:02:41 PM

JOB DESCRIPTION

Wastewater

Leachate Metals

JOB NUMBER

310-274618-1

Eurofins Cedar Falls 3019 Venture Way Cedar Falls IA 50613

See page two for job notes and contact information.

Page 1 of 14



Eurofins Goder Falls

Join Netters

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This report was automatically generated by Eurofins Cedar Falls LIMS system, after peer review by each individual department. If you notice any issues please contact your project manager or call the lab at 319-277-2401.

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

2/19/2024 9:02:41 PM

2/19/2024

Authorized for release by

Matthew Hummel, Project Manager I Matthew.Hummel@et.eurofinsus.com

(319)595-2010

Page 2 of 14

Case Narrative

Client: City of Fredericksburg

Job ID: 310-274618-1 Project: Wastewater

Job ID: 310-274618-1

Eurofins Cedar Falls

Job Narrative 310-274618-1

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 2/8/2024 3:00 PM. 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 2.3°C.

GC/MS VOA

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

GC/MS Semi VOA

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

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

Pesticides

Method 608.3_Pest_PREC: The laboratory control sample (LCS/LCSD) for preparation batch 310-413216 and analytical batch 310-413757 recovered outside control limits for the following analytes: Aldrin. The sample is outside of hold time and the analyte was not detected in the sample, so reanalysis was not performed.

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 SM5210B_Calc: The following sample underdepleted: Landfill Leachate (310-274618-1). Results have been reported and may be biased high.

Method SM5210B Calc: The following sample was received outside of holding time: Landfill Leachate (310-274618-1).

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

Eurofins Cedar Falls

Sample Summary

Client: City of Fredericksburg Project/Site: Wastewater

Job ID: 310-274618-1

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 310-274618-1
 Landfill Leachate
 Water
 02/05/24 13:00
 02/08/24 15:00

Client: City of Fredericksburg Project/Site: Wastewater

Client Sample ID: Landfill Leachate

Date Collected: 02/05/24 13:00 Date Received: 02/08/24 15:00 Job ID: 310-274618-1

Lab Sample ID: 310-274618-1

Matrix: Water

Method:	624.1	 Volatile 	Organic	Compounds	(C	C/MS)
Analyta							

Analyte	Result	Qualifier RL	MDL	Unit	D	Analyzed	Dil Ean	Analyst
1,1,1-Trichloroethane	<1.00	1.00		ug/L	<u>-</u>	02/09/24 16:07	1	/ L. / L.
1,1,2,2-Tetrachloroethane	<1.00	1.00		ug/L		02/09/24 16:07	1	
1,1,2-Trichloroethane	<1.00	1.00		ug/L		02/09/24 16:07		FE5V
1,1-Dichloroethane	<1.00	1.00		ug/L		02/09/24 16:07		FE5V
1,1-Dichloroethene	<2.00	2.00		ug/L		02/09/24 16:07		
1,2-Dichloroethane	<1.00	1.00		ug/L		02/09/24 16:07	1	FE5V FE5V
1,2-Dichloroethene, Total	<1.00	1.00		ug/L		02/09/24 16:07		
1,2-Dichloropropane	<1.00	1.00		ug/L		02/09/24 16:07		FE5V
1,3-Dichloropropene, Total	<5.00	5.00		ug/L		02/09/24 16:07		FE5V
2-Chloroethyl vinyl ether	<2.00	2.00		ug/L		02/09/24 16:07		FE5V
Benzene	1.25	0.500		ug/L				FE5V
Bromodichloromethane	<1.00	1.00		ug/L		02/09/24 16:07	1	. 20.
Bromoform	<5.00	5.00		ug/L		02/09/24 16:07	1	FE5V
Bromomethane	<4.00	4.00		ug/L		02/09/24 16:07		FE5V
Carbon tetrachloride	<2.00	2.00		ug/L		02/09/24 16:07		FE5V
Chlorobenzene	2.13	1.00		-		02/09/24 16:07	1	FE5V
Dibromochloromethane	<5.00	5.00		ug/L		02/09/24 16:07	1	FE5V
Chloroethane	<4.00	4.00		ug/L		02/09/24 16:07	1	FE5V
Chloroform	<3.00	3.00		ug/L		02/09/24 16:07	1	FE5V
Chloromethane	<3.00	3.00		ug/L		02/09/24 16:07	1	FE5V
Ethylbenzene	<1.00			ug/L		02/09/24 16:07		FE5V
Methylene Chloride	<5.00	1.00		ug/L 		02/09/24 16:07	1	FE5V
Tetrachloroethene	<1.00	5.00		ug/L		02/09/24 16:07		FE5V
Toluene	<1.00	1.00		ug/L		02/09/24 16:07	1	FE5V
Trichloroethene	<1.00	1.00		ug/L		02/09/24 16:07	1	FE5V
Vinyl chloride		1.00		ug/L		02/09/24 16:07	1	FE5V
y.	<1.00	1.00		ug/L		02/09/24 16:07	1	FE5V
Surrogate	%Recovery Q	ualifier Limits						
Dibromofluoromethane (Surr)	108	70 - 130			**	Analyzed 02/09/24 16:07		Analyst
Toluene-d8 (Surr)	98	70 - 130						FE5V
4.5	00	70 - 730				02/09/24 16:07	1	FE5V

103

4-Bromofluorobenzene (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Ess	Analyst
Acenaphthene	<9.62		9.62		ug/L	<u>-</u>	02/19/24 17:06	Dirac	
Acenaphthylene	<9.62		9.62		ug/L		02/19/24 17:06	-1	LOFS
Anthracene	<9.62		9.62		ug/L		02/19/24 17:06		LOFS
Benzo[a]anthracene	<9.62		9.62		ug/L		02/19/24 17:06		LOFS
Benzo[a]pyrene	<9.62		9.62		ug/L ug/L		02/19/24 17:06		LOFS
Benzo[b]fluoranthene	<9.62		9.62		ug/L		02/19/24 17:06		LOFS
Benzo[g,h,i]perylene	<9.62		9.62		ug/L		02/19/24 17:06		LOFS
Benzoic acid	<96.2		96.2		ug/L		02/19/24 17:06		LOFS
Benzo[k]fluoranthene	<9.62		9.62		ug/L		02/19/24 17:06		LOFS LOFS
Benzyl alcohol	<9.62		9.62		ug/L		02/19/24 17:06		
Bis(2-chloroethoxy)methane	<9.62		9.62		ug/L		02/19/24 17:06		LOFS LOFS
Bis(2-chloroethyl)ether	<9.62		9.62		ug/L		02/19/24 17:06		LOFS
bis (2-chloroisopropyl) ether	<9.62		9.62		ug/L		02/19/24 17:06		LOFS
Bis(2-ethylhexyl) phthalate	<9.62		9.62		ug/L		02/19/24 17:06		LOFS
1-Bromophenyl phenyl ether	<9.62		9.62		ug/L		02/19/24 17:06		LOFS
Butyl benzyl phthalate	<9.62		9.62		ug/L		02/19/24 17:06		LOFS

70 - 130

Eurofins Cedar Falls

1 FE5V

02/09/24 16:07

Client: City of Fredericksburg Project/Site: Wastewater

Job ID: 310-274618-1

Client Sample ID: Landfill Leachate

Date Collected: 02/05/24 13:00 Date Received: 02/08/24 15:00

2-Fluorobiphenyl (Surr)

2-Fluorophenol (Surr)

Nitrobenzene-d5 (Surr)

Terphenyl-d14 (Surr)

2,4,6-Tribromophenol (Surr)

Phenol-d5 (Surr)

Lab Sample ID: 310-274618-1

Matrix: Water

		Qualifier RL	MDL	Unit	D	Analyzed	VII Fac	Analyst
4-Chloro-3-methylphenol	<9.62	9.62		ug/L		02/19/24 17:06	1	
2-Chloronaphthalene	<9.62	9.62		ug/L		02/19/24 17:06	1	LOFS
2-Chlorophenol	<9.62	9.62		ug/L		02/19/24 17:06	1	LOFS
4-Chlorophenyl phenyl ether	<9.62	9.62	j	ug/L		02/19/24 17:06		L0FS
Chrysene	<9.62	9.62	ĵ	ug/L		02/19/24 17:06		LOFS
Dibenz(a,h)anthracene	<9.62	9.62	,	ug/L		02/19/24 17:06		LOFS
Dibenzofuran	<9.62	9.62		ug/L		02/19/24 17:06	1	
,2-Dichlorobenzene	<9.62	9.62		ug/L		02/19/24 17:06	1	LOFS
,3-Dichlorobenzene	<9.62	9.62		ug/L		02/19/24 17:06	1	
,4-Dichlorobenzene	<9.62	9.62		ug/L		02/19/24 17:06	1	
,3'-Dichlorobenzidine	<9.62	9.62		ıg/L		02/19/24 17:06		LOFS
.4-Dichlorophenol	<9.62	9.62		ıg/L		02/19/24 17:06		LOFS
liethyl phthalate	<9.62	9.62		1g/L		02/19/24 17:06		LOFS
4.4-Dimethylphenol	<9.62	9.62		ıg/L		02/19/24 17:06		LOFS
imethyl phthalate	<9.62	9.62		19/L 19/L		02/19/24 17:06		
Di-n-butyl phthalate	<9.62	9.62		19/L 19/L		02/19/24 17:06		LOFS
,6-Dinitro-2-methylphenol	<9.62	9.62		ıg/L ıg/L		02/19/24 17:06		LOFS
,4-Dinitrophenol	<19.2	19.2		ig/L ig/L				LOFS
,4-Dinitrotoluene	<9.62	9.62				02/19/24 17:06		LOFS
,6-Dinitrotoluene	<9.62	9.62		ıg/L		02/19/24 17:06		LOFS
i-n-octyl phthalate	<19.2	19.2		ıg/L		02/19/24 17:06		LOFS
luoranthene	<9.62	9.62		ig/L		02/19/24 17:06		L0FS
luorene	<9.62			g/L		02/19/24 17:06		LOFS
exachlorobenzene	<9.62	9.62		g/L		02/19/24 17:06		LOFS
exachlorobutadiene	<9.62	9.62		g/L		02/19/24 17:06		LOFS
exachlorocyclopentadiene	<9.62 <9.62	9.62		g/L		02/19/24 17:06		LOFS
exachloroethane		9.62		g/L		02/19/24 17:06		LOFS
ideno[1,2,3-cd]pyrene	<9.62	9.62		g/L		02/19/24 17:06	1	LOFS
ophorone	<9.62	9.62		g/L		02/19/24 17:06	1	LOFS
aphthalene	<9.62	9.62		g/L		02/19/24 17:06	1	LOFS
apricialene itrobenzene	<9.62	9.62		g/L		02/19/24 17:06	1	LOFS
Nitrophenol	<9.62	9.62		g/L		02/19/24 17:06	1	LOFS
	<9.62	9.62		g/L		02/19/24 17:06	1	LOFS
Nitrophenol	<9.62	9.62		g/L		02/19/24 17:06	1	LOFS
Nitrosodi-n-propylamine	<9.62	9.62	u	g/L		02/19/24 17:06	1	LOFS
Nitrosodiphenylamine	<9.62	9.62	Ц	g/L		02/19/24 17:06	1	LOFS
entachlorophenol	<9.62	9.62	ug	g/L		02/19/24 17:06	1	LOFS
nenanthrene	<9.62	9.62	บุ	g/L		02/19/24 17:06	1	L0FS
rrene	<9.62	9.62	ug	g/L		02/19/24 17:06	1	LOFS
2,4-Trichlorobenzene	<9.62	9.62	ug	g/L		02/19/24 17:06	1	LOFS
4,5-Trichlorophenol	<9.62	9.62	นดู	g/L	2	02/19/24 17:06		LOFS
4,6-Trichlorophenol	<9.62	9.62	นถู	g/L		02/19/24 17:06		LOFS

Eurofins Cedar Falls

1 LOFS

1 LOFS

1 LOFS

1 LOFS

1 LOFS

1 LOFS

02/19/24 17:06

02/19/24 17:06

02/19/24 17:06

02/19/24 17:06

02/19/24 17:06

02/19/24 17:06

39 - 118

25 - 110

45 - 129

21 - 110

12-144

27 - 136

77

67

86

53

71

83

Client: City of Fredericksburg Project/Site: Wastewater

Lab Sample ID: 310-274618-1

Matrix: Water

Job ID: 310-274618-1

Client Sample ID: Landfill Leachate

Date Collected: 02/05/24 13:00

Date Received: 02/08/24 15:00

flethod: 608.3 - Organochlorin Inalyte		Qualifier	RL	MDL	Unit	В	Analyses	Dil Esc	Analust
ddrin	<0.0615		0.0615	MUL		<u>D</u>	Analyzed		Analyst
eta-BHC	<0.0615		0.0615		ug/L		02/15/24 19:27	1	BW2O
Chlordane (technical)	<1.92				ug/L		02/15/24 19:27	1	
,4'-DDD	<0.0615		1.92		ug/L		02/15/24 19:27		BW2O
,4'-DDE			0.0615		ug/L		02/15/24 19:27	1	
7.0	<0.0615		0.0615		ug/L		02/15/24 19:27	1	BW2O
,4'-DDT	<0.0615		0.0615		ug/L		02/15/24 19:27	1	BW2O
elta-BHC	<0.0615		0.0615		ug/L		02/15/24 19:27	1	BW2O
ieldrin	<0.0615		0.0615		ug/L		02/15/24 19:27	1	BW2O
ndosulfan I	<0.0615		0.0615		ug/L		02/15/24 19:27	1	BW20
ndosulfan II	<0.0615		0.0615		ug/L		02/15/24 19:27	1	BW20
ndosulfan sulfate	<0.0615		0.0615		ug/L		02/15/24 19:27	1	BW2O
ndrin	<0.0615		0.0615		ug/L		02/15/24 19:27	1	BW2O
ndrin aldehyde	< 0.0615		0.0615		ug/L		02/15/24 19:27	1	BW2O
nma-BHC (Lindane)	<0.0615		0.0615		ug/L		02/15/24 19:27	1	BW20
eptachlor	<0.0615		0.0615		ug/L		02/15/24 19:27	1	BW2O
eptachlor epoxide	< 0.0615		0.0615		ug/L		02/15/24 19:27	1	BW2O
xaphene	<1.92		1.92		ug/L		02/15/24 19:27	1	BW2O
ırrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
CB Decachlorobiphenyl (Surr)	53		10 - 136				02/15/24 19:27	1	BW20
trachloro-m-xylene	77		10 - 130				02/15/24 19:27	1	BW20
ethod: 608.3 - Polychlorinated	d Biphenyls (PC								
ethod: 608.3 - Polychlorinateo nalyte	d Biphenyls (PC	Bs) (GC) Qualifier	RL	MDL	Unit ua/L	D	Analyzed 02/15/24 19:27		Analyst BW20
ethod: 608.3 - Polychlorinated nalyte CB-1016	d Biphenyls (PC Result		0.769	MDL	ug/L	D	02/15/24 19:27	1	BW20
ethod: 608.3 - Polychlorinated nalyte DB-1016 DB-1221	d Biphenyls (PC Result <0.769		0.769 0.769	MDL	ug/L ug/L	D	02/15/24 19:27 02/15/24 19:27	1	BW2O BW2O
ethod: 608.3 - Polychlorinateo nalyte DB-1016 DB-1221 DB-1232	d Biphenyls (PC Result <0.769 <0.769 <0.769		0.769 0.769 0.769	MDL	ug/L ug/L ug/L	D_	02/15/24 19:27 02/15/24 19:27 02/15/24 19:27	1 1 1	BW20 BW20 BW20
ethod: 608.3 - Polychlorinater nalyte CB-1016 CB-1221 CB-1232 CB-1242	d Biphenyls (PC Result <0.769 <0.769 <0.769 <0.769		0.769 0.769 0.769 0.769	MDL	ug/L ug/L ug/L ug/L	<u>D</u>	02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27	1 1 1	BW2O BW2O BW2O BW2O
ethod: 608.3 - Polychlorinated nalyte CB-1016 CB-1221 CB-1232 CB-1242 CB-1248	d Biphenyls (PC Result <0.769 <0.769 <0.769 <0.769		0.769 0.769 0.769 0.769 0.769	MDL	ug/L ug/L ug/L ug/L ug/L	<u>D</u>	02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27	1 1 1	BW2O BW2O BW2O BW2O BW2O
ethod: 608.3 - Polychlorinated ialyte :B-1016 :B-1221 :B-1232 :B-1242 :B-1248 :B-1254	d Biphenyls (PC Result <0.769 <0.769 <0.769 <0.769 <0.769		0.769 0.769 0.769 0.769 0.769 0.769	MDL	ug/L ug/L ug/L ug/L ug/L ug/L	D	02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27	1 1 1 1	BW2O BW2O BW2O BW2O BW2O BW2O
ethod: 608.3 - Polychlorinated ialyte :B-1016 :B-1221 :B-1232 :B-1242 :B-1248 :B-1254	d Biphenyls (PC Result <0.769 <0.769 <0.769 <0.769		0.769 0.769 0.769 0.769 0.769	MDL	ug/L ug/L ug/L ug/L ug/L	<u>D</u>	02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27	1 1 1 1	BW2O BW2O BW2O BW2O BW2O
ethod: 608.3 - Polychlorinated lalyte IB-1016 IB-1221 IB-1232 IB-1242 IB-1248 IB-1254 IB-1260	d Biphenyls (PC Result <0.769 <0.769 <0.769 <0.769 <0.769 <0.769		0.769 0.769 0.769 0.769 0.769 0.769 0.769	MDL	ug/L ug/L ug/L ug/L ug/L ug/L	D	02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 Analyzed	1 1 1 1 1 1 Dil Fac	BW2O BW2O BW2O BW2O BW2O BW2O BW2O
ethod: 608.3 - Polychlorinated nalyte DB-1016 DB-1221 DB-1232 DB-1242 DB-1248 DB-1254 DB-1260 Irrogate DB Decachlorobiphenyl (Surr)	d Biphenyls (PC Result <0.769 <0.769 <0.769 <0.769 <0.769 <0.769 **Recovery**	Qualifier	0.769 0.769 0.769 0.769 0.769 0.769 0.769	MDL	ug/L ug/L ug/L ug/L ug/L ug/L	<u>D</u>	02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27	1 1 1 1 1 1 Dil Fac	BW2O BW2O BW2O BW2O BW2O BW2O BW2O
ethod: 608.3 - Polychlorinated nalyte DB-1016 DB-1221 DB-1232 DB-1242 DB-1248 DB-1254 DB-1260 Irrogate DB Decachlorobiphenyl (Surr)	d Biphenyls (PC Result <0.769 <0.769 <0.769 <0.769 <0.769 <0.769	Qualifier	0.769 0.769 0.769 0.769 0.769 0.769 0.769	MDL	ug/L ug/L ug/L ug/L ug/L ug/L	D	02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 Analyzed	1 1 1 1 1 1 1 Dil Fac	BW2O BW2O BW2O BW2O BW2O BW2O BW2O
lethod; 608.3 - Polychlorinated nalyte CB-1016 CB-1221 CB-1232 CB-1242 CB-1248 CB-1254 CB-1260 urrogate CB Decachlorobiphenyl (Surr) strachloro-m-xylene (Surr)	d Biphenyls (PC Result <0.769 <0.769 <0.769 <0.769 <0.769 **Recovery** 53	Qualifier	0.769 0.769 0.769 0.769 0.769 0.769 0.769	MDL	ug/L ug/L ug/L ug/L ug/L ug/L	<u>D</u>	02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 Analyzed	1 1 1 1 1 1 1 Dil Fac	BW2O BW2O BW2O BW2O BW2O BW2O BW2O Analyst BW2O
ethod: 608.3 - Polychlorinated nalyte DB-1016 CB-1221 CB-1232 CB-1242 CB-1248 CB-1254 CB-1260 Irrogate CB Decachlorobiphenyl (Surr) trachloro-m-xylene (Surr) ethod: 200.8 - Metals (ICP/MS)	d Biphenyls (PC Result <0.769 <0.769 <0.769 <0.769 <0.769 <0.769 <i>%Recovery</i> 53 77	Qualifier	0.769 0.769 0.769 0.769 0.769 0.769 0.769	MDL	ug/L ug/L ug/L ug/L ug/L ug/L	D	02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 Analyzed	1 1 1 1 1 1 1 Dil Fac	BW2O BW2O BW2O BW2O BW2O BW2O BW2O Analyst BW2O
ethod: 608.3 - Polychlorinated nalyte DB-1016 DB-1221 DB-1232 DB-1242 DB-1248 DB-1254 DB-1260 Irrogate DB Decachlorobiphenyl (Surr) trachloro-m-xylene (Surr) ethod: 200.8 - Metals (ICP/MS) nalyte	d Biphenyls (PC Result <0.769 <0.769 <0.769 <0.769 <0.769 <0.769 <i>%Recovery</i> 53 77	Qualifier Qualifier	0.769 0.769 0.769 0.769 0.769 0.769 0.769 Limits 10 - 136 10 - 130		ug/L ug/L ug/L ug/L ug/L ug/L		02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 Analyzed 02/15/24 19:27 02/15/24 19:27	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BW2O BW2O BW2O BW2O BW2O BW2O BW2O Analyst BW2O BW2O
ethod: 608.3 - Polychlorinated nalyte CB-1016 CB-1221 CB-1232 CB-1242 CB-1248 CB-1254 CB-1260 Irrogate CB Decachlorobiphenyl (Surr) trachloro-m-xylene (Surr) ethod: 200.8 - Metals (ICP/MS) nalyte senic	d Biphenyls (PC Result <0.769 <0.769 <0.769 <0.769 <0.769 <0.769 <i>%Recovery</i> 53 77	Qualifier Qualifier	0.769 0.769 0.769 0.769 0.769 0.769 0.769 Limits 10 - 136 10 - 130		ug/L ug/L ug/L ug/L ug/L ug/L		02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 Analyzed 02/15/24 19:27 02/15/24 19:27	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BW2O BW2O BW2O BW2O BW2O BW2O BW2O BW2O
ethod: 608.3 - Polychlorinated halyte CB-1016 CB-1221 CB-1232 CB-1242 CB-1248 CB-1254 CB-1260 Irrogate CB Decachlorobiphenyl (Surr) trachloro-m-xylene (Surr) ethod: 200.8 - Metals (ICP/MS) halyte senic	d Biphenyls (PC Result <0.769 <0.769 <0.769 <0.769 <0.769 <0.769 %Recovery 53 77 (i) Result 0.00277	Qualifier Qualifier	0.769 0.769 0.769 0.769 0.769 0.769 0.769 10 - 136 10 - 130 RL 0.00200		ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L		02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 Analyzed 02/15/24 19:27 02/15/24 19:27	1 1 1 1 1 1 1 1 1 Dil Fac 1 Dil Fac 1	BW2O BW2O BW2O BW2O BW2O BW2O BW2O BW2O
ethod: 608.3 - Polychlorinated nalyte DB-1016 DB-1021 DB-1221 DB-1232 DB-1242 DB-1248 DB-1254 DB-1250 Irrogate DB Decachlorobiphenyl (Surr) trachloro-m-xylene (Surr) ethod: 200.8 - Metals (ICP/MS nalyte senic	d Biphenyls (PC Result <0.769 <0.769 <0.769 <0.769 <0.769 <0.769 %Recovery 53 77 Result 0.00277 0.329	Qualifier Qualifier	0.769 0.769 0.769 0.769 0.769 0.769 0.769 10 - 136 10 - 130 RL 0.00200 0.00200		ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L		02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 Analyzed 02/15/24 19:27 Analyzed 02/15/24 19:27 Analyzed 02/15/24 19:27	1 1 1 1 1 Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BW2O BW2O BW2O BW2O BW2O BW2O BW2O BW2O
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ethod: 608.3 - Polychlorinated nalyte DB-1016 DB-1021 DB-1232 DB-1242 DB-1248 DB-1254 DB-1260 Irrogate DB Decachlorobiphenyl (Surr) trachloro-m-xylene (Surr) ethod: 200.8 - Metals (ICP/MS) nalyte senic erium idmium irromium irromium irromium irromium irromium	Result	Qualifier Qualifier	0.769 0.769 0.769 0.769 0.769 0.769 0.769 0.769 Limits 10 - 136 10 - 130 RL 0.00200 0.00200 0.00200 0.00500 0.00500 0.100		ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L		02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 Analyzed 02/15/24 19:27 Analyzed 02/15/24 19:27 Analyzed 02/15/24 19:27 02/15/24 19:27 02/15/24 16:43 02/12/24 16:43 02/12/24 16:43 02/12/24 16:43 02/12/24 16:43 02/12/24 16:43	1 1 1 1 1 1 1 Dil Fac 1 1 1 1 1 1 1 1 1 1 1	BW2O BW2O BW2O BW2O BW2O BW2O BW2O BW2O
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lethod: 608.3 - Polychlorinated nalyte CB-1016 CB-1221 CB-1232 CB-1248 CB-1254 CB-1260 Irrogate CB Decachlorobiphenyl (Surr) Irrachloro-m-xylene (Surr) ethod: 200.8 - Metals (ICP/MS) nalyte renic orium indmium irromium	### Company Co	Qualifier Qualifier	0.769 0.769 0.769 0.769 0.769 0.769 0.769 0.769 10 - 136 10 - 130 RL 0.00200 0.00200 0.00200 0.00500 0.100 0.000500 0.000500 0.000500 0.000500		ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L		02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 02/15/24 19:27 Analyzed 02/15/24 19:27 Analyzed 02/15/24 19:27 Analyzed 02/15/24 19:27 02/15/24 19:27 02/15/24 16:43 02/12/24 16:43 02/12/24 16:43 02/12/24 16:43 02/12/24 16:43 02/12/24 16:43 02/12/24 16:43 02/12/24 16:43 02/12/24 16:43 02/12/24 16:43	1 1 1 1 1 1 1 1 1 1 Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1	BW2O BW2O BW2O BW2O BW2O BW2O BW2O BW2O
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Eurofins Cedar Falls

Client: City of Fredericksburg

Project/Site: Wastewater

Job ID: 310-274618-1

Client Sample ID: Landfill Leachate

Date Collected: 02/05/24 13:00 Date Received: 02/08/24 15:00 Lab Sample ID: 310-274618-1

Matrix: Water

Method: 245.2 - Mercury (CVAA Analyte		Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	<0.000200		0.000200		mg/L	/	02/15/24 10:46	1	ZRI4
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	Đ	Analyzed	Dil Fac	Analyst
HEM (Oil & Grease)	<4.7		4.7		mg/L		02/17/24 13:14	1	DGU1
Ammonia	87.8		25.0		mg/L		02/13/24 16:38	1	WZC8
Nitrogen, Kjeldahl	84.9		10.0		mg/L		02/12/24 12:15	10	ENB7
Total Suspended Solids	74.0		30.0		mg/L		02/09/24 16:01	1	ENB7
Total Dissolved Solids	1230		50.0		mg/L		02/09/24 14:25	1	D7CP
Siochemical Oxygen Demand	5.85	н нз	3.00		mg/L		02/08/24 15:33	1	W9YR
Total Organic Carbon	51.9		10.0		mg/L		02/14/24 00:00	10	WZC8

Accreditation/Certification and Definitions Summary

Client: City of Fredericksburg Project/Site: Wastewater

Job ID: 310-274618-1

Laboratory: Eurofins Cedar Falls

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

AuthorityProgramIdentification NumberExpiration DateIowaState00712-01-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte	
624.1		Water	1,2-Dichloroethene, Total	-1
624.1		Water	1,3-Dichloropropene, Total	
625.1	625	Water	1,2-Dichlorobenzene	
625.1	625	Water	1,3-Dichlorobenzene	
625.1	625	Water	1,4-Dichlorobenzene	
625.1	625	Water	Dibenzofuran	

Qualifiers

GC Semi VOA

Qualifier Description

LCS and/or LCSD is outside acceptance limits, low biased.

General Chemistry

Qualifier	Qualifier Description
Н	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
Н3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.

Glossary

NC

ND

Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
п	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
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	Delection 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
MRL	Method Reporting Limit

Eurofins Cedar Falis



Accreditation/Certification and Definitions Summary

Client: City of Fredericksburg Project/Site: Wastewater

Job ID: 310-274618-1

Glossary (Continued)

These commonly used abbreviations may or may not be present in this report.
Negative / Absent
Positive / Present
Practical Quantitation Limit
Presumptive
Quality Control
Relative Error Ratio (Radiochemistry)
Reporting Limit or Requested Limit (Radiochemistry)
Relative Percent Difference, a measure of the relative difference between two points
Sample Detection Limit
Sample Detection Limit
Sample Detection Limit
Toxicity Equivalent Factor (Dioxin)
Toxicity Equivalent Quotient (Dioxin)
Too Numerous To Count

Method Summary

Client: City of Fredericksburg Project/Site: Wastewater

Job ID: 310-274618-1

5.1 Semivolatile Organic Compounds (GC/MS) EPA EET CF 8.3 Organochlorine Pesticides in Water EPA EET CF 8.3 Polychlorinated Biphenyls (PCBs) (GC) EPA EET CF 0.8 Metals (ICP/MS) EPA EET CF 5.2 Mercury (CVAA) EPA EET CF 64A HEM and SGT-HEM by Extraction and Gravimetry 40CFR136A EET CF 0.1 Nitrogen, Ammonia EPA EET CF 1.2 Nitrogen, Total Kjeldahl EPA EET CF 765-85 Residue, Non-filterable (TSS) USGS EET CF 1 5210B BOD, 5-Day SM EET CF 1 5310C TOC SM EET CF 34A HEM and SGT-HEM (SPE) 1664A EET CF 3.0 Preparation, Total Metals EPA EET CF 3.1 Preparation, Mercury EPA EET CF 3.1 Preparation, Mercury EPA EET CF 3.2 Liquid-Liquid Extraction (Separatory Funnel) EPA EET C	Viethod	Method Description	Protocol	Laboratory
B.3 Organochlorine Pesticides in Water EPA EET CF B.3 Polychlorinated Biphenyls (PCBs) (GC) EPA EET CF D.8 Metals (ICP/MS) EPA EET CF D.8 Mercury (CVAA) EPA EET CF D.1 Nitrogen, Ammonia EPA EET CF D.1 Nitrogen, Ammonia EPA EET CF D.1 Nitrogen, Total Kjeldahl EPA EET CF D.2 Nitrogen, Total Kjeldahl EPA EET CF D.3 EET CF D.4 EET CF D.5 EPA EET CF D.5 EPA EET CF	624.1	Volatile Organic Compounds (GC/MS)	EPA	EET CF
B.3	525.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET CF
0.8 Metals (ICP/MS) EPA EET CF 5.2 Mercury (CVAA) EPA EET CF 64A HEM and SGT-HEM by Extraction and Gravimetry 40CFR136A EET CF 0.1 Nitrogen, Ammonia EPA EET CF 1.2 Nitrogen, Total Kjeldahl EPA EET CF 765-85 Residue, Non-filterable (TSS) USGS EET CF 8 2540C Solids, Total Dissolved (TDS) SM EET CF 9 5210B BOD, 5-Day SM EET CF 9 64A HEM and SGT-HEM (SPE) 1664A EET CF 9 64A HEM and SGT-HEM (SPE) 1664A EET CF 9 0.8 Preparation, Total Metals EPA EET CF 9 0.8 Preparation, Mercury EPA EET CF 1 0.1 Nitrogen, Total Kjeldahl EPA EET CF 1 0.2 Nitrogen, Total Kjeldahl EPA EET CF 1 0.2 Nitrogen, Total Kjeldahl EPA EET CF 2 0.5 Liquid-Liquid Extraction (Separatory Funnel) EPA <	808.3	Organochlorine Pesticides in Water	EPA	EET CF
SECOND S	608.3	Polychlorinated Biphenyls (PCBs) (GC)	EPA	EET CF
HEM and SGT-HEM by Extraction and Gravimetry D.1 Nitrogen, Ammonia EPA EET CF D.2 Nitrogen, Total Kjeldahl EPA EET CF Residue, Non-filterable (TSS) D.3 Solids, Total Dissolved (TDS) D.4 Solids, Total Dissolved (TDS) D.5 Day D.6 SM EET CF D.7 SM EET CF D.8 BOD, 5-Day D.8 Preparation, Total Metals D.8 Preparation, Mercury D.8 Preparation, Mercury D.9 Nitrogen, Total Kjeldahl D.9 Nitrogen, Total Kjeldahl D.9 Nitrogen, Total Kjeldahl D.9 Liquid-Liquid Extraction (Separatory Funnel) D.9 Liquid-Liquid Extraction	8.00	Metals (ICP/MS)	EPA	EET CF
Nitrogen, Ammonia EPA EET CF 1.2 Nitrogen, Total Kjeldahl EPA EET CF 765-85 Residue, Non-filterable (TSS) USGS EET CF 1.2 Solids, Total Dissolved (TDS) SM EET CF 1.5 210B BOD, 5-Day SM EET CF 1.5 210B BOD, 5-Day SM EET CF 1.6 4A HEM and SGT-HEM (SPE) 1664A EET CF 1.0 8 Preparation, Total Metals EPA EET CF 1.1 9.1 Preparation, Mercury EPA EET CF 1.2 Nitrogen, Total Kjeldahl EPA EET CF 1.3 Liquid-Liquid Extraction (Separatory Funnel) EPA EET CF 1.5 Liquid-Liquid Extraction	45.2	Mercury (CVAA)	EPA	EET CF
Nitrogen, Total Kjeldahl Residue, Non-filterable (TSS) Solids, Total Dissolved (TDS) BOD, 5-Day TOC SM EET CF EPA EET CF EPA EET CF SM EET CF EPA EET CF EPA EET CF SM EET CF EPA EET CF EPA EET CF SM EET CF EPA EET CF SM EET CF EPA EET CF EPA EET CF	664A	HEM and SGT-HEM by Extraction and Gravimetry	40CFR136A	EET CF
Residue, Non-filterable (TSS) Solids, Total Dissolved (TDS) BOD, 5-Day TOC SM EET CF SM EET CF	50.1	Nitrogen, Ammonia	EPA	EET CF
Solids, Total Dissolved (TDS) SM EET CF SM EE	51.2	Nitrogen, Total Kjeldahl	EPA	EET CF
BOD, 5-Day TOC SM EET CF SAA HEM and SGT-HEM (SPE) D.8 Preparation, Total Metals EPA EET CF D.1.2 Nitrogen, Total Kjeldahl EPA EET CF Liquid-Liquid Extraction EPA EET CF	3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
TOC SM EET CF SAA HEM and SGT-HEM (SPE) 1664A EET CF D.8 Preparation, Total Metals 5.1 Preparation, Mercury 1.2 Nitrogen, Total Kjeldahl EPA EET CF Liquid-Liquid Extraction (Separatory Funnel) EPA EET CF EPA EET CF EPA EET CF EPA EET CF	M 2540C	Solids, Total Dissolved (TDS)	SM	EET CF
HEM and SGT-HEM (SPE) 1664A EET CF 1.2 Nitrogen, Total Kjeldahl 1.2 Liquid-Liquid Extraction (Separatory Funnel) 1.3 Liquid-Liquid Extraction 1.4 EET CF 1.5 Liquid-Liquid Extraction 1.5 EPA 1.6 EET CF 1.7 EPA 1.7 EET CF 1.8 EET CF 1.9 EPA 1.9 EET CF 1.9 EPA 1.0 EET CF 1.0 EPA 1.0 EET CF	M 5210B	BOD, 5-Day	SM	EET CF
Preparation, Total Metals Preparation, Mercury EPA EET CF Nitrogen, Total Kjeldahl EPA EET CF Liquid-Liquid Extraction (Separatory Funnel) EPA EET CF EPA EET CF EPA EET CF	M 5310C	TOC	SM	EET CF
Preparation, Mercury EPA EET CF I.2 Nitrogen, Total Kjeldahl EPA EET CF Liquid-Liquid Extraction (Separatory Funnel) EPA EET CF EPA EET CF	664A	HEM and SGT-HEM (SPE)	1664A	EET CF
1.2 Nitrogen, Total Kjeldahl EPA EET CF Liquid-Liquid Extraction (Separatory Funnel) EPA EET CF Liquid-Liquid Extraction EPA EET CF	8.00	Preparation, Total Metals	EPA	EET CF
Liquid-Liquid Extraction (Separatory Funnel) EPA EET CF Liquid-Liquid Extraction EPA EET CF	45.1	Preparation, Mercury	EPA	EET CF
Liquid-Liquid Extraction EPA EET CF	51.2	Nitrogen, Total Kjeldahl	EPA	EET CF
CIVA	08	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET CF
till/Ammonia Distillation, Ammonia None EET CF	25	Liquid-Liquid Extraction	EPA	EET CF
	istill/Ammonia	Distillation, Ammonia	None	EET CF

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

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

Eurofins Cedar Falls



Environment Testing America



Cooler/Sample Receipt and Temperature Log Form

Client Information					· · · · · · · · · · · · · · · · · · ·
Client: City of f	rederic	YSW	Va		
City/State:	sì	ATE	Project:		
Receipt Information				V 1998 1 1 1 1	
Date/Time Pare DATE N	8/24/1	6DD	Received By:	n	
Delivery Type: UPS	FedEx		FedEx Ground	US Mail	Spee-Dee
	Lab Field	Services	Client Drop-off	Other:	
Condition of Cooler/Containers					
Sample(s) received in Cooler?	Yes	□No	If yes: Cooler ID:		
Multiple Coolers?		ĮΣÍ,Nο	If yes: Cooler # _	of tody seals intact?	V
Cooler Custody Seals Present?		□ No	If yes: Cooler cus	tody seals intact?	Yes 🗆
Sample Custody Seals Present No		No No	If yes: Sample cu	stody seals intact?	Yes 🗌
Trip Blank Present?	Yes	2 100	If yes: Which VO	A samples are in co	oler? ↓
Temperature Record					
Coolant: Wet ice	Blue ice [☐ Dry ice	Other:		IONE
Thermometer ID:			Correction Factor (
• Temp Blank Temperature - If no	temp blank, or te	mp blank ten	nperature above criteria,	proceed to Sample Con	talner Temperature
	2.3		Corrected Temp (°	0): 2.3	
 Sample Container Temperature 					
Container(s) used:	AINER 1		CONTA	MNER 2	
Uncorrected Temp (°C):					
Corrected Temp (°C):					
Exceptions Noted					
If temperature exceeds crite a) If yes: Is there evidence			A	mpling?	□ No □ No
 If temperature is <0°C, are (e.g., bulging septa, broken 	/cracked bottle	es, frozen	solid?)	ole containers is co Yes	mpromised?
Note: If yes, contact PM before	e proceeding.	If no, proce	ed with login		
Additional Comments					
				,	1132 - 7 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3

Document CED-P-SAM-FRM45521 Revision 26 Date 27 Jan 2022

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

Chain of Custody Record

Address

Environment Testing

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TAL-8210 500 Preservation Sample Specific Notes America Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) 4250 H2 50 アタイプ For Lab Use Only NONE None HCI NOWE Walk-in Client: Job / SDG No ab Sampling Months Therm ID No COC No Date/Time Date/Time Date/Time Archive for Company. Company. Company Disposal by Lab Carrier: Ar wheel Date: Cooler Temp ("C) Obs'd R Received in Laboratory by Officer Return to Cllent Site Contact: Received by Received by Lab Contact: RCRA Perform MS / MSD (Y / N) Filtered Sample (Y / N) Date/Time 7:3/4/1/20 Date/Time Regulatory Program: Dow Dobes Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Date/Time # of Cont. e W M Project Manager: Mat Humme ☐ WORKING DAYS Matrix Analysis Turnaround Time Unknown Type (C=Comp, G=Grab) Sample TAT if different from Below 0 0 0 0 9 0 0 2 weeks 0 1 week 2 days 1 day PH 6,69 CALENDAR DAYS Sample 15-24 10m Time / Blan 15-74 PPM 2-5-24 1PM 2524 1Pm 2-5-24 /PM 2-524 1PM Preservation Used: 1=16e, 2=HCl. 3=H2SOd; 4≠HNO3; 5=NaOH;6= Other 2 Custody Seal No Greden Poison B Tel/Email: 2524 Sample 7-5-24 Company 0000 Date Company Parkate IA 50630 Frederic Ksbung Special Instructions/QC Requirements & Comments: Comments Section if the lab is to dispose of the sample water thurg, 1a, and £ □ ickasaw County rachate rachate rachate Packate Sample Identification techat rachate Gave Trewin Client Contact PACKATY ž Gredenichsburg ☐ Flammable W main Possible Hazard Identification: Custody Seals Jakary PO# Hauler Company Name .kq pelsinbulgan by. Relipquished by Non-Hazard Crty/State/Zip Project Name Address Phone

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Order Completion Information

Matthew Hummel

Tracking #

Sent Date Sent Via

Filled by Creator

Landfill Leachate 1/23/2024 Request From Client Bottle Order # Bottle Order

8 50 03AM In Process 1/28/2021 Date Order Posted Order Status

1/23/2024 10:00:00AM Shirley Thompson Deliver By Date: Prepared By

31001577 Lab Project Number

GISM

Lot# Ammonia/TKN BOD/TSS/TDS Oil & Grease 608 Pest/608 Comments PCBs/625 VOCs Metals 700 VOC Sample Type Normal Normal Normal Normal Normal Normal Normal Normal Normal Matrix Water Water Water Water Water Water Water Water Water 200 8 CWA - Metals 245.2 - Mercury Method Preservative Sulfuric Acid Sulfunc Acid Sulfunc Acid Voa Vial 40ml - Hydrochloric Acid Hydrochlonc Nitric Acid None None Acid None Voa Vial 40ml - with Sulfunc Acid Plastic 250ml - with Sulfunc Acid Amber Glass 1L Narrow - Sulfuric Plastic 250ml - with Nitric Acid Plastic 1 liter - unpreserved Voa Vial 40ml - unpreserved Rottle Type Description Amber Glass 250ml unpreserved ð n N 9 က 3 Bottles/Set 3 ဖ 0 0 Sets Page 14 of 14

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Boule Whe Description	Preservative	Sample We Bottle Count	Roffle Count
Amber Glass 1L Narrow - Sulfunc Acid	Sulfunc Acid		0
Amber Glass 250ml - unpreserved	None	Normal	1 CC
Plastic 1 lifer - unpreserved	None	Normal	-
Plastic 250ml - with Nitric Acid	Nrtnc Acrd	Normal	. —
Plastic 250ml - with Sulfunc Acid	Sulfunc Acid	Normal	• •
Voa Vial 40ml - Hydrochloric Acid	Hydrochloric Acid	Normal	- m
Voa Vial 40ml - unpreserved	None	Normal) m
Voa Vial 40ml - with Sulfunc Acid	Sulfunc Acid	Normal	8
		Total Bottles	20

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.