

April 26, 2023

Town of Cheektowaga Engineering Department 275 Alexander Avenue Cheektowaga, NY 14211

Attn: Mr. Patrick T. Bowen, P.E.

Town Engineer

Re: Effluent Sample Report – March 2023

Pfohl Brothers Landfill, Town of Cheektowaga, New York

Dear Mr. Bowen:

URS Corporation is pleased to present results of the March 2023 effluent sampling event at the Pfohl Brothers Landfill. All activities were conducted in accordance with the Town's permit with the Buffalo Sewer Authority (No. 22-07-CH016) dated effective July 1, 2022 through June 30, 2025.

Analytical results of the metals, total suspended solids, and pH for this event were compared to the discharge limitations in the Town's permit. The laboratory results showed no exceedances of the daily discharge limitations stated in the permit.

Attached please find the analytical data summary table, field notes taken during the sampling event, a sample location figure, and the laboratory report.

Please do not hesitate to call me should you have any questions regarding this submittal.

Sincerely,

URS Corporation

Robert J. Murphy, P.G.

Project Manager

Attachments

cc File 11172700.00002 (C-1)

MARCH 2023

EFFLUENT MONITORING REPORT

FOR

PFOHL BROTHERS LANDFILL

PREPARED BY

URS CORPORATION 1 JOHN JAMES AUDUBON PARKWAY, SUITE 210 AMHERST, NEW YORK 14228

PREPARED FOR

TOWN OF CHEEKTOWAGA ENGINEERING DEPARTMENT 275 ALEXANDER AVENUE CHEEKTOWAGA, NEW YORK 14211

APRIL 2023

EFFLUENT MONITORING REPORT MARCH 2023

This effluent monitoring report presents analytical results from the March 2023 sampling event. There were no violations, exemptions or modifications to report. The report contains the following:

- Summary of analytical detections
- Sample technicians' field notes
- Sample location figure
- Laboratory report

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possibility of fine and imprisonment for knowing violations."

A BSA-approved signatory must sign this statement. An approved signatory is a corporate executive of the company or an individual designated responsible in writing by a corporate executive to the BSA.

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ATTACHMENT 1 SUMMARY OF ANALYTICAL DETECTIONS

TABLE 1

PFOHL BROTHERS LANDFILL - EFFLUENT MONITORING ANALYTICAL RESULTS, TOTAL FLOW, AND MASS LOADINGS MARCH 2023

Sample ID		EFF-032323								
Matrix					Efflue	nt Water				
Date Sampled		3/23/2023								
Parameter	F	Result		Ma	ss Loading	Discharge Limitation	Violations			
	(mg/L)			(lbs/day)	(lbs/day)	(Yes/No)				
Total Barium		0.19			0.01	23.4	No			
Total Cadmuim	<(1)	0.0005		<	0.00003	0.23	No			
Total Chromium	<	0.0010		<	0.00006	1.17	No			
Total Copper	<	0.0016		<	0.0001	3.74	No			
Total Lead	<	0.0030		<	0.0002	1.17	No			
Total Nickel	<	0.0013		<	0.0001	3.27	No			
Total Zinc		0.0066	J		0.0004	5.84	No			
Total Suspended Solids	<	4.0			NA ⁽²⁾	250 ⁽³⁾	No			
pH ⁽⁴⁾		7.71			NA	5.0 - 12.0	No			
Total Flow ⁽⁵⁾		7,725				187,898	No			

Notes:

- (1) < = Compound not detected, method detection limit shown
- (2) NA = Not Applicable
- (3) Discharge Limitation in units of mg/L
- (4) pH measurement and Discharge Limitation in Standard Units
- (5) Total Flow reported in gallons, sample was collected over a 24 hour period
- J Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

Calculation:
$$\left(\frac{x \text{ mg}}{L}\right) \left(\frac{y \text{ gal}}{\text{day}}\right) \left(\frac{1 \text{ lb}}{453,600 \text{ mg}}\right) \left(\frac{3.785 \text{ L}}{\text{gal}}\right) = \frac{x \times y}{119,841} \frac{\text{lb}}{\text{day}}$$

mg = milligrams gal = gallons L = Liters lb(s) = pound(s)

ATTACHMENT 2 SAMPLE TECHNICIANS' FIELD NOTES

SAMPLING FIELD SHEET



Client Name:	Pfohl Brothers Landfill
Address:	Aero Drive, Cheektowaga, NY
Contact:	Patrick T. Bowen, P.E. Phone: 716-897-7288
Installation:	. Holos
Sample Point:	SP-001
Sample Location	0/00/00
Date:	3/22/23 Crew: R. Murphy, T. Urban
Weather:	56 °F, cloudy
Sampling Device	e: NA
Time of Installati	on: 14:00 Type of Sample: Composite
Sample Interval:	NA Sample Volume: NA
(une	pH Measurement: 7.71 Oakton pH Tester30, s/n 2246401
	Temperature: 7.1 °C
Identification:	
_	EFF-032323 for TSS and Metals
Physical Observ	
Laboratory: <u>E</u> Comments: <u>N</u> PLC display	EFF-032323 for TSS and Metals ations: Light orange/red tint Eurofins Buffalo, Amherst, NY No wells running at the time of sample collection. Volumes: WW-01 (202,577 gals), WW-02 (40 gals), WW-03 (-521,887 gals), 512,900 gals), WW-05 (599,155 gals), WW-06 (4,301,851 gals) & MH-25 (7,624,962 gals).

ATTACHMENT 3 SAMPLE LOCATION FIGURE



URS

PFOHL BROTHERS LANDFILL EFFLUENT SAMPLE POINT

ATTACHMENT 4 LABORATORY REPORT

PREPARED FOR

Attn: Rob Murphy AECOM One John James Audubon Parkway Suite 210 Amherst, New York 14228

JOB DESCRIPTION

Generated 4/3/2023 11:58:44 AM

Pfohl Brothers Landfill

JOB NUMBER

480-207204-1

Eurofins Buffalo 10 Hazelwood Drive Amherst NY 14228-2298

Eurofins Buffalo

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 Northeast, LLC Buffalo and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Buffalo Project Manager or designee 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 Northeast, LLC Project Manager.

Authorization

Generated 4/3/2023 11:58:44 AM

Authorized for release by
Rebecca Jones, Project Management Assistant I
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John.Schove@et.eurofinsus.com
(716)504-9838

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Client: AECOM

Project/Site: Pfohl Brothers Landfill

Laboratory Job ID: 480-207204-1

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Definitions/Glossary

Client: AECOM Job ID: 480-207204-1

Project/Site: Pfohl Brothers Landfill

Qualifiers

M	leta	ıls

Qualifier **Qualifier Description** Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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)
100	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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

Too Numerous To Count TNTC

Eurofins Buffalo

Page 4 of 15

Case Narrative

Client: AECOM Job ID: 480-207204-1

Project/Site: Pfohl Brothers Landfill

Job ID: 480-207204-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-207204-1

Comments

No additional comments.

Receipt

The sample was received on 3/24/2023 3:55 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 7.7° C.

Metals

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

General Chemistry

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

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Detection Summary

Client: AECOM Job ID: 480-207204-1

Project/Site: Pfohl Brothers Landfill

Client Sample ID: EFF-032323 Lab Sample ID: 480-207204-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Barium	0.19	0.0020	0.00070 mg/L	1	200.7 Rev 4.4	Total/NA
Zinc	0.0066 J	0.010	0.0015 mg/L	1	200.7 Rev 4.4	Total/NA

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Client Sample Results

Client: AECOM Job ID: 480-207204-1

Project/Site: Pfohl Brothers Landfill

Client Sample ID: EFF-032323

Lab Sample ID: 480-207204-1

Matrix: Water

Date Collected: 03/23/23 14:00 Date Received: 03/24/23 15:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.19		0.0020	0.00070	mg/L		03/27/23 08:32	03/27/23 15:41	1
Cadmium	ND		0.0020	0.00050	mg/L		03/27/23 08:32	03/27/23 15:41	1
Chromium	ND		0.0040	0.0010	mg/L		03/27/23 08:32	03/27/23 15:41	1
Copper	ND		0.010	0.0016	mg/L		03/27/23 08:32	03/27/23 15:41	1
Lead	ND		0.010	0.0030	mg/L		03/27/23 08:32	03/27/23 15:41	1
Nickel	ND		0.010	0.0013	mg/L		03/27/23 08:32	03/27/23 15:41	1
Zinc	0.0066	J	0.010	0.0015	mg/L		03/27/23 08:32	03/27/23 15:41	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	ND		4.0	4.0	mg/L			03/29/23 15:35	1

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QC Sample Results

Client: AECOM Job ID: 480-207204-1

Project/Site: Pfohl Brothers Landfill

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-662779/1-A

Analysis Batch: 662949

Matrix: Water

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 662779

	MB I	MB							
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.0020	0.00070	mg/L		03/27/23 08:32	03/27/23 14:09	1
Cadmium	ND		0.0020	0.00050	mg/L		03/27/23 08:32	03/27/23 14:09	1
Chromium	ND		0.0040	0.0010	mg/L		03/27/23 08:32	03/27/23 14:09	1
Copper	ND		0.010	0.0016	mg/L		03/27/23 08:32	03/27/23 14:09	1
Lead	ND		0.010	0.0030	mg/L		03/27/23 08:32	03/27/23 14:09	1
Nickel	ND		0.010	0.0013	mg/L		03/27/23 08:32	03/27/23 14:09	1
Zinc	ND		0.010	0.0015	mg/L		03/27/23 08:32	03/27/23 14:09	1
<u> </u>									

Lab Sample ID: LCS 480-662779/2-A

Matrix: Water

Analysis Batch: 662949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 662779

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Barium	0.200	0.212		mg/L		106	85 - 115	
Cadmium	0.200	0.199		mg/L		100	85 _ 115	
Chromium	0.200	0.204		mg/L		102	85 _ 115	
Copper	0.200	0.197		mg/L		99	85 _ 115	
Lead	0.200	0.198		mg/L		99	85 _ 115	
Nickel	0.200	0.198		mg/L		99	85 - 115	
Zinc	0.200	0.197		mg/L		99	85 - 115	

Method: SM 2540D - Solids, Total Suspended (TSS)

MB MB Result Qualifier

ND

Lab Sample ID: MB 480-663244/1

Matrix: Water

Analyte

Analysis Batch: 663244

Client Sample ID: Method Blank

Prep Type: Total/NA

Prepared Analyzed Dil Fac 03/29/23 15:35

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 480-663244/2

Total Suspended Solids

Matrix: Water		Prep Type: Total/NA
Analysis Batch: 663244		
	A	 A/ -

RL

1.0

RL Unit

1.0 mg/L

D

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Suspended Solids	 290	284.8		mg/L		98	88 - 110	

QC Association Summary

Client: AECOM Job ID: 480-207204-1

Project/Site: Pfohl Brothers Landfill

Metals

Prep Batch: 662779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207204-1	EFF-032323	Total/NA	Water	200.7	
MB 480-662779/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-662779/2-A	Lab Control Sample	Total/NA	Water	200.7	

Analysis Batch: 662949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-662779/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	662779
LCS 480-662779/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	662779

Analysis Batch: 663047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207204-1	EFF-032323	Total/NA	Water	200.7 Rev 4.4	662779

General Chemistry

Analysis Batch: 663244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207204-1	EFF-032323	Total/NA	Water	SM 2540D	
MB 480-663244/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-663244/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Eurofins Buffalo

4/3/2023

Lab Chronicle

Client: AECOM Job ID: 480-207204-1

Project/Site: Pfohl Brothers Landfill

Client Sample ID: EFF-032323

Lab Sample ID: 480-207204-1

Matrix: Water

Date Collected: 03/23/23 14:00 Date Received: 03/24/23 15:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	200.7			662779	NVK	EET BUF	03/27/23 08:32
Total/NA	Analysis	200.7 Rev 4.4		1	663047	LMH	EET BUF	03/27/23 15:41
Total/NA	Analysis	SM 2540D		1	663244	SAK	EET BUF	03/29/23 15:35

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Accreditation/Certification Summary

Client: AECOM Job ID: 480-207204-1

Project/Site: Pfohl Brothers Landfill

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

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Method Summary

Client: AECOM Job ID: 480-207204-1

Project/Site: Pfohl Brothers Landfill

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	EET BUF
200.7	Preparation, Total Metals	EPA	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: AECOM Job ID: 480-207204-1

Project/Site: Pfohl Brothers Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-207204-1	EFF-032323	Water	03/23/23 14:00	03/24/23 15:55

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N · None
O · Ashaoo
O · Ashaoo
P · Na2045
Q · Na2063
Q · Na2803
S · H2804
U · Acetone
U · Acetone
W · Ph 4.5
W · Trizma Special Instructions/Note: Ver: 06/08/2021 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Bisposal By Lab Archive For Month COC No: 480-183629-29655.1 reservation Codes A - HCL
B - NaOH
C - Zn Acetate
C - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid Rop OFF Page: Page 1 of 1 I - Ice J - DI Water K - EDTA L - EDA Total Number of containers 一井さた 480-207204 Chain of Custody Date/Time: Date/Time Method of Shipment: Carrier Tracking No(s) State of Origin: **Analysis Requested** [%O] Cooler Temperature(s) °C and Other Remarks. Special Instructions/QC Requirements: MALLYCON Lab PM: Schove, John R E-Mail: John Schove@et.eurofinsus.com Received by: Received by: Received by SST - G0452 - Ba, Cd, Cr, Cu, Pb, Ni, Zn Perform MS/MSD (Yes or No) Time: Field Filtered Sample (Yes or No) Company Type (W=water, Sesolid, C=comp, O=wateholi, G=grab) BT=Tissue, A=Air) Preservation Code: Matrix Water Company Company Como Radiological Sample TANDARD Phone: 716-903-1346 WO#: 60411174.11175616.00000 1400 Sample Muss PHY Date: Unknown TAT Requested (days): Due Date Requested: Compliance Project: 3/23/73 Sample Date Project #: 48002609 SSOW#: Date/Time: 144060 Poison B Skin Imitant Jeliverable Requested: I, II, III, IV, Other (specify) One John James Audubon Parkway Suite 210 Custody Seal No. EFF-032323 ann.marie.kropovitch@aecom.com Non-Hazard | Flammable Postible Hazard Identification Empty Kit Relinquished by: Ms. Ann Marie Kropovitch Custody Seals Intact: △ Yes △ No Client Information Sample Identification Project Name: Pfohl Brothers Landfill telinquished by. Relinquished by: Relinquished by: State, Zip: NY, 14228 Company: AECOM Amherst

Environment Testing

🔅 eurofins

Chain of Custody Record

Phone: 716-691-2600 Fax: 716-691-7991

Amherst, NY 14228-2298

J.2.2.

10 Hazelwood Drive

Login Sample Receipt Checklist

Client: AECOM Job Number: 480-207204-1

Login Number: 207204 List Source: Eurofins Buffalo

List Number: 1 Creator: Stopa, Erik S

orditor. Otopu, Erik O		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Eurofins Buffalo