

ANALYTICAL REPORT

PREPARED FOR

Attn: Marty Durkin
City of Morton Grove
7840 Nagle Avenue
Morton Grove, Illinois 60053

Generated 3/28/2023 11:17:03 AM

JOB DESCRIPTION

UCMR5-IL0311950-MortonGrove-SE1

JOB NUMBER

810-50462-1

Eurofins Eaton Analytical South Bend

Job Notes

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 Eaton Analytical, LLC Project Manager.

Authorization



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Authorized for release by
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Definitions/Glossary

Client: City of Morton Grove
Project/Site: UCMR5-IL0311950-MortonGrove-SE1

Job ID: 810-50462-1

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

Case Narrative

Client: City of Morton Grove
Project/Site: UCMR5-IL0311950-MortonGrove-SE1

Job ID: 810-50462-1

Job ID: 810-50462-1

Laboratory: Eurofins Eaton Analytical South Bend

Narrative

Job Narrative
810-50462-1

Comments

No additional comments.

Receipt

The samples were received on 1/18/2023 8:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

Metals

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

LCMS

Method 533: The following QC issues in 810-47227 were observed: 13C7 PFUnA failed low at 46% in EP 00001 SE 1 (810-50462-1). Limit 50-200%. This sample was re-analyzed with similar results. This sample was used as the parent for the MS/MSD, so there is no volume left to re-extract.

Method 537.1 UCMR5: The following QC issues in 810-45683 OR 810-45757 were observed: The RLs for all compounds were adjusted due to the extracted volume for sample EP 00001 SE 1 (810-50462-1).

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

Organic Prep

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

Client Sample Results

Client: City of Morton Grove
Project/Site: UCMR5-IL0311950-MortonGrove-SE1

Job ID: 810-50462-1

Client Sample ID: EP 00001 SE 1

Lab Sample ID: 810-50462-1

Date Collected: 01/17/23 08:47

Matrix: Drinking Water

Date Received: 01/18/23 08:15

Method: EPA 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0047		0.0047	ug/L		01/26/23 07:11	01/27/23 01:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0056		0.0056	ug/L		01/26/23 07:11	01/27/23 01:44	1
Perfluorotetradecanoic acid (PFTA)	<0.0075		0.0075	ug/L		01/26/23 07:11	01/27/23 01:44	1
Perfluorotridecanoic acid (PFTrDA)	<0.0066		0.0066	ug/L		01/26/23 07:11	01/27/23 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	94		70 - 130	01/26/23 07:11	01/27/23 01:44	1
13C2 PFHxA	104		70 - 130	01/26/23 07:11	01/27/23 01:44	1
13C2 PFDA	96		70 - 130	01/26/23 07:11	01/27/23 01:44	1
13C3 HFPO-DA	95		70 - 130	01/26/23 07:11	01/27/23 01:44	1

Method: EPA 200.7 UCMR5 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<9.00		9.00	ug/L		01/24/23 13:30	01/27/23 11:41	1

Lab Chronicle

Client: City of Morton Grove
Project/Site: UCMR5-IL0311950-MortonGrove-SE1

Job ID: 810-50462-1

Client Sample ID: EP 00001 SE 1

Date Collected: 01/17/23 08:47

Date Received: 01/18/23 08:15

Lab Sample ID: 810-50462-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			45683	AB	EA SB	01/26/23 07:11
Total/NA	Analysis	537.1 UCMR5		1	45757	MH	EA SB	01/27/23 01:44
Total/NA	Prep	200.7 UCMR5			45495	NB	EA SB	01/24/23 13:30
Total/NA	Analysis	200.7 UCMR5		1	45919	NB	EA SB	01/27/23 11:41

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Accreditation/Certification Summary

Client: City of Morton Grove
Project/Site: UCMR5-IL0311950-MortonGrove-SE1

Job ID: 810-50462-1

Laboratory: Eurofins Eaton Analytical South Bend

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

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

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

Method Summary

Client: City of Morton Grove
Project/Site: UCMR5-IL0311950-MortonGrove-SE1

Job ID: 810-50462-1

Method	Method Description	Protocol	Laboratory
537.1 UCMR5	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA SB
200.7 UCMR5	Metals (ICP)	EPA	EA SB
200.7 UCMR5	Preparation, Total Recoverable Metals	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Sample Summary

Client: City of Morton Grove
Project/Site: UCMR5-IL0311950-MortonGrove-SE1

Job ID: 810-50462-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-50462-1	EP 00001 SE 1	Drinking Water	01/17/23 08:47	01/18/23 08:15

1

2

3

4

5

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South Bend, IN

110 S Hill Street
South Bend, IN 46617
Phone (574) 233-4777 Fax (574) 233-8207



810-50462 Chain of Custody



Environment Testing
America

UCMR Sampling Form

Company Contact: MARTY DURKIN
Company Name: VILLAGE OF MORTON GROVE
Company Address: 7840 NAGLE
MORTON GROVE IL 60053

Phone: 847 470-5235
Email: mdurkin@mortongroveil.org
Purchase Order:

Lab PM: _____
Email: _____
EEA Project: _____

Water System Name: VILLAGE OF MORTON GROVE IL 0311950
Collection Location: 6702 OAKTON-SOUTH PUMP STATION
Scheduled Collection Date: JAN 17, 2023

Sampler Name (Print): MARTY DURKIN Date Sampled: JAN 17, 2023

AREA BELOW FOR LAB USE ONLY

PWSID: _____
FacID: _____
SPID: _____
FacName: _____
SPName: _____

Sampling Event: _____

Mtd	Type	# Bot	IR Gun#	Temp °C	(10°	Wet / Blue	Cl (P/A) **	Sample Comments
				(10 w/in 2D; 6° after) Initial / Corrected		pH Acceptable (Y/N) *		
200.7	FS	2		0.4 / 0.8		Y		
533	FS	3		0.8 / 1.2		Y	A	
533	FRB	1		0.2 / 0.6		Y	A	
537.1	FS	3		0.2 / 0.6		Y	A	
537.1	FRB	1		1.2 / 1.6		Y	A	

* pH <2 for 200.7. pH 6-8 for 533 & 537.1. Note: 200.7 & 533 may be adjusted upon receipt.

** Absent if Free Cl <0.1 mg/L

Received By

Date/Time

1/18/23 0815

South Bend, IN

110 S Hill Street

South Bend, IN 46617

Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Record



Environment Testing

Client Information		Sampler		Lab PM		Carrier Tracking No(s)		COC No		
Client Contact: Marty Durkin		Phone: 847 815-1688		Chlebowski, Traci		State of Origin: IL		810-19106-5867.1		
Company: City of Morton Grove		PWSID: IL 0311950		E-Mail: Traci.Chlebowski@et.eurofins.com		Job #:		Page 1 of 1		
Address: 7840 Nagle Avenue		Due Date Requested:		Analysis Requested		Total Number of containers		Preservation Codes:		
City: Morton Grove		TAT Requested (days):						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		
State, Zip: IL, 60053		Compliance Project: Δ Yes Δ No						M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)		
Phone: 847-470-5835		PO #: (UCMR5)								
Email: mdurkin@mortongrovel.org		WO #:								
Project Name: UCMR5-IL0311950-MortonGrove		Project #: 81004658								
Site:		SSOW#:								
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Sewage, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7 UCMR5 - UCMR5, 200.7	537.1 UCMR5 - 537.1 UCMR5 PFAS	533 UCMR5 - 533 UCMR5 PFAS	Special Instructions/Note:
EP 00001 SE1	1-17-2023	8:47AM		Drinking Water						
EP 00001 SE1	1-17-2023	8:51AM		Drinking Water						
EP 00001 SE1	1-17-2023	8:56AM								
EP 00001 SE1	1-17-2023	9:00AM								
EP 00001 SE1	1-17-2023	9:03AM								
EP 00001 SE1	1-17-2023	9:06AM								
EP 00001 SE1	1-17-2023	9:08AM								
EP 00001 SE1	1-17-2023	9:10AM								

Possible Hazard Identification		Deliverable Requested: I, II, III, IV, Other (specify)	
☐ Non-Hazard	☐ Flammable	☐ Skin Irritant	☐ Radiological
Empty Kit Relinquished by:		Time:	
Relinquished by:		Date:	
Relinquished by:		Date:	
Relinquished by:		Date:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:	

Special Instructions/QC Requirements	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Received by: <i>[Signature]</i> Date/Time: 1/18/23 08:15 Company: EPA	
Received by: _____ Date/Time: _____ Company: _____	
Received by: _____ Date/Time: _____ Company: _____	
Cooler Temperature(s) °C and Other Remarks:	

Login Sample Receipt Checklist

Client: City of Morton Grove

Job Number: 810-50462-1

Login Number: 50462

List Number: 1

Creator: Wojcik, Mary

List Source: Eurofins Eaton Analytical South Bend

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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	
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	
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	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	