

January 31, 2020

Corey Almas, Director of Public Services  
 City of Madison Heights  
 300 W. 13 Mile Road  
 Madison Heights, MI 48071

**Re: Summary of PFC/PFAS Sampling Results from 1/22/2020**  
 ECT No. 20-0051

Dear Mr. Almas:

At your request, Environmental Consulting & Technology, Inc (ECT) has reviewed the analytical report associated with the drinking water samples collected in January 2020. Based on these results, the groundwater pollution at the Electroplating Services (EPS) has not impacted the City’s drinking water. All analyzed constituents were below the laboratory Method Reporting Limit, as well as the State of Michigan Drinking Water Standards.

On January 22, 2020, the City of Madison Heights collected two water samples to further evaluate whether the chemical release at EPS had impacted drinking water quality. Samples were collected at a location on 10 Mile Road near EPS, and an additional sample were collected at another location to provide background data for comparison (Table 1). Samples were analyzed for per- and polyfluorinated compounds (PFCs, also known as PFAS), which have been detected at the EPS site (Table 2).

**Table 1. Sampling Sites**

1009 E. 10 Mile
801 Ajax Drive (Madison Heights DPS)

**Table 2. Parameters and Laboratory Methods**

Parameters	Laboratory Methods*
Per- and Polyfluorinated Compounds	L402

\*Laboratory methods used to analyze the samples

We have reviewed the laboratory report (Report #476410, Eurofins/Eaton Analytical, issued 01/30/2020) that presents the results of the analysis.

No PFCs were detected in either of the samples. Therefore, based on the analytical report, the PFCs previously detected in the environment at the EPS site have not impacted the City’s drinking water quality.

Corey Almas  
City of Madison Heights  
1/31/2020  
Page 2

We appreciate the trust that the City has placed in ECT. If you have any questions, please contact us at 313-963-6600 or [ademaria@ectinc.com](mailto:ademaria@ectinc.com).

Sincerely,

**ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.**



Mark Mikesell, PhD  
Senior Scientist



Annette DeMaria, P.E., PMP  
Principal Engineer

## LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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## STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-18-12
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

\*NELAP/TNI Recognized Accreditation Bodies

110 South Hill Street  
 South Bend, IN 46617  
 Tel: (574) 233-4777  
 Fax: (574) 233-8207  
 1 800 332 4345

## Laboratory Report

Client: City of Madison Heights

Attn: Chris Woodward  
 801 Ajax Drive  
 Madison Heights, Mi 48071

Report: 476410

Priority: Rush Verbal

Status: Final

PWS ID: MI04000

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4546119	1009 E. 10 Mile	L402	01/22/20 10:58	Client	01/23/20 09:00
4546120	801 Ajax Dr.	L402	01/22/20 11:24	Client	01/23/20 09:00

### Report Summary

Note: There were no reportable results in the Method L402 analysis for PFMOPrA due to severe matrix interference.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Caleb Hunsberger at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

*Caleb Hunsberger ASM*

Authorized Signature

Title

01/30/2020

Date

Client Name: City of Madison Heights

Report #: 476410

Sampling Point: 1009 E. 10 Mile

PWS ID: MI04000

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
120226-60-0	10:2 Fluorotelomer sulfonic acid (10:2 FTS) §	L402	---	2.0	< 2.0	ng/L	01/24/20 08:05	01/25/20 18:36	4546119
757124-22-4	4:2 Fluorotelomer sulfonic acid (4:2 FTS) §	L402	---	2.0	< 2.0	ng/L	01/24/20 08:05	01/25/20 18:36	4546119
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958445-44-8	ADONA §	L402	---	2.0	< 2.0	ng/L	01/24/20 08:05	01/25/20 18:36	4546119
73606-19-6	9Cl-PF3ONS/F-53B Major §	L402	---	2.0	< 2.0	ng/L	01/24/20 08:05	01/25/20 18:36	4546119
83329-89-9	11Cl-PF3OUdS/F-53B Minor §	L402	---	2.0	< 2.0	ng/L	01/24/20 08:05	01/25/20 18:36	4546119
13252-13-6	HFPO-DA/GenX §	L402	---	5.0	< 5.0	ng/L	01/24/20 08:05	01/25/20 18:36	4546119
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA) §	L402	---	2.0	< 2.0	ng/L	01/24/20 08:05	01/25/20 18:36	4546119
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol §	L402	---	2.0	< 2.0	ng/L	01/24/20 08:05	01/25/20 18:36	4546119
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA) §	L402	---	2.0	< 2.0	ng/L	01/24/20 08:05	01/25/20 18:36	4546119
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307-55-1	Perfluorododecanoic acid (PFDoA) §	L402	---	2.0	< 2.0	ng/L	01/24/20 08:05	01/25/20 18:36	4546119
375-95-1	Perfluorononanoic acid (PFNA) §	L402	---	2.0	< 2.0	ng/L	01/24/20 08:05	01/25/20 18:36	4546119
1763-23-1	Perfluorooctanesulfonic acid (PFOS) §	L402	---	2.0	< 2.0	ng/L	01/24/20 08:05	01/25/20 18:36	4546119
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72629-94-8	Perfluorotridecanoic acid (PFTTrDA) §	L402	---	2.0	< 2.0	ng/L	01/24/20 08:05	01/25/20 18:36	4546119
2058-94-8	Perfluoroundecanoic acid (PFUnA) §	L402	---	2.0	< 2.0	ng/L	01/24/20 08:05	01/25/20 18:36	4546119
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754-91-6	Perfluorooctane sulfonamide (PFOSA) §	L402	---	2.0	< 2.0	ng/L	01/24/20 08:05	01/25/20 18:36	4546119
2706-90-3	Perfluoropentanoic acid (PFPeA) §	L402	---	2.0	< 2.0	ng/L	01/24/20 08:05	01/25/20 18:36	4546119
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§ The state of origin does not offer certification for this parameter.

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§ The state of origin does not offer certification for this parameter.

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

<b>Reg Limit Type:</b>	MCL	SMCL	AL
<b>Symbol:</b>	*	^	!

## Lab Definitions

**Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC)** - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

**Internal Standards (IS)** - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

**Laboratory Duplicate (LD)** - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

**Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS)** - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

**Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB)** - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

**Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB)** - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

**Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD)** - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

**Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM)** - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

**Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV)** - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

**Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS)** - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

**Surrogate Standard (SS) / Surrogate Analyte (SUR)** - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.





Eaton Analytical

110 S. Hill Street  
South Bend, IN 46617  
T: 1.800.332.4345  
F: 1.574.233.8207

Order # 390401  
Batch # 476410

www.EurofinsUS.com/Eaton

Shaded area for EEA use only

### CHAIN OF CUSTODY RECORD

Page 1 of 1

REPORT TO: Chris Woodward City of Madison AT5 SAME	SAMPLER (Signature) <i>Matt Jolke</i>	PWS ID # 04000	STATE (sample origin) MI	PROJECT NAME	PO#
BILL TO:	COMPLIANCE MONITORING	POPULATION SERVED 30,000 (est)	SOURCE WATER SW (GLWA)	SAMPLE REMARKS	# OF CONTAINERS
LAB Number	SAMPLING SITE	TEST NAME	CHLORINATED	MATRIX CODE	TURNAROUND TIME
	Yes No		YES NO		
1 4546119	1009 E. 10 MILE	PFC'S - Method L402	X	PH23	2 DW
2 4546120	801 ASA-X DR	PFC'S - Method L402	X	PH23/35	2 DW
3				1-23-2020	
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					

RUSH

RELINQUISHED BY: (Signature) <i>Matt Jolke</i>	DATE 1/22/20	TIME 11:40 AM	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY: <i>S. Jolke</i>	DATE	TIME

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one):  
 Ice/Wet/Blue    Ambient 2.0 °C Upon Receipt \_\_\_\_\_ N/A

**MATRIX CODES:**  
 DW-DRINKING WATER  
 RW-REAGENT WATER  
 GW-GROUND WATER  
 EW-EXPOSURE WATER  
 SW-SURFACE WATER  
 PW-POOL WATER  
 WW-WASTE WATER

**TURN-AROUND TIME (TAT) - SURCHARGES**  
 SW = Standard Written: (15 working days) 0%  
 RV = Rush Verbal: (5 working days) 50%  
 RW = Rush Written: (5 working days) 75%

IV\* = Immediate Verbal: (3 working days) 100%  
 IW\* = Immediate Written: (3 working days) 125%  
 SP\* = Weekend, Holiday CALL  
 STAT\* = Less than 48 hours CALL

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

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Sample analysis will be provided according to the standard EEA Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.