

Client Information

Trace Analytical Laboratories, Inc.
ATTN: Jon Mink
2241 Black Creek Road
Muskegon, MI. 49444

Sample Information

Lab ID: 400443 Matrix: Drinking Water Date Collected: 11/07/2018
Chain #: T18K154-01 Field Blank Collected: No Date Received: 11/09/2018
Sample Description: Hesperia - MW1 - Jeremy Stevens Date Processed: 11/12/2018
Date Analyzed: 11/13/2018
Date Reported: 11/13/2018

Acronym	Analyte	Field Blank	Sample 400443A Sample Volume Tested: 281.10 mL	Reporting Limit
PFOS	Perfluorooctanesulfonic acid*	NA	Not Detected	2.00 ppt
PFOA	Perfluorooctanoic acid	NA	Not Detected	2.00 ppt
N-EtFOSAA	N-ethyl perfluorooctanesulfonamideacetic acid*	NA	Not Detected	2.00 ppt
N-MeFOSAA	N-methyl perfluorooctanesulfonamideacetic acid*	NA	Not Detected	10.00 ppt
PFBS	Perfluorobutanesulfonic acid	NA	Not Detected	10.00 ppt
PFDA	Perfluorodecanoic acid	NA	Not Detected	10.00 ppt
PFDoA	Perfluorododecanoic acid	NA	Not Detected	2.00 ppt
PFHpA	Perfluoroheptanoic acid	NA	Not Detected	2.00 ppt
PFHxS	Perfluorohexanesulfonic acid*	NA	Not Detected	2.00 ppt
PFHxA	Perfluorohexanoic acid	NA	Not Detected	2.00 ppt
PFNA	Perfluorononanoic acid	NA	Not Detected	2.00 ppt
PFTeDA	Perfluorotetradecanoic acid	NA	Not Detected	2.00 ppt
PFTrDA	Perfluorotridecanoic acid	NA	Not Detected	2.00 ppt
PFUnDA	Perfluoroundecanoic acid	NA	Not Detected	2.00 ppt

NA: Not Applicable
ppt: Parts Per Trillion

Combined Total**	Field Blanks	Sample
PFOA + PFOS	NA	Not Detected

* PFOS, N-MeFOSAA, N-EtFOSAA, and PFHxS are showing total concentration including linear and branched isomers.

**As of May 2016 the Michigan Department of Environmental Quality (DEQ) set the drinking water maximum allowable safe limit at 70 ppt or ng/L for PFOS and PFOA combined. This report gives individual values for both PFOS and PFOA as well as branched and linear isomers for each, where applicable. Currently, the Michigan DEQ has not set a recommended minimum allowable concentration for any of the other included analytes. These analytes are closely related and may have recommended guidance in the future.

Disclaimer:

This report is for informational purposes only. It is a simplified report for personal use only, for a comprehensive report please contact Trident Environmental, LLC. Trident Environmental utilizes the recommended EPA method 537 (modified), utilizing solid phase extraction followed by LC-MS/MS analysis. This methodology is extremely sensitive and trace amounts may be detected for a variety of reasons including but not limited to improper sample collection, inadequate shipping conditions, or other outside environmental variables.

Lab ID: 400443 Analyst Initials: CML_LR

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Client Information
Trace Analytical Laboratories, Inc. ATTN: Jon Mink 2241 Black Creek Road Muskegon, MI. 49444

Sample Information		
Lab ID: 400444 Chain #: T18K154-02	Matrix: Drinking Water Field Blank Collected: No Sample Description: Hesperia - MW2 - Jeremy Stevens	Date Collected: 11/07/2018 Date Received: 11/09/2018 Date Processed: 11/12/2018 Date Analyzed: 11/13/2018 Date Reported: 11/13/2018

Acronym	Analyte	Field Blank	Sample 400444A Sample Volume Tested: 273.90 mL	Reporting Limit
PFOS	Perfluorooctanesulfonic acid*	NA	Not Detected	2.00 ppt
PFOA	Perfluorooctanoic acid	NA	Not Detected	2.00 ppt
N-EtFOSAA	N-ethyl perfluorooctanesulfonamideacetic acid*	NA	Not Detected	2.00 ppt
N-MeFOSAA	N-methyl perfluorooctanesulfonamideacetic acid*	NA	Not Detected	10.00 ppt
PFBS	Perfluorobutanesulfonic acid	NA	14.98 ppt	10.00 ppt
PFDA	Perfluorodecanoic acid	NA	Not Detected	10.00 ppt
PFDoA	Perfluorododecanoic acid	NA	Not Detected	2.00 ppt
PFHpA	Perfluoroheptanoic acid	NA	Not Detected	2.00 ppt
PFHxS	Perfluorohexanesulfonic acid*	NA	Not Detected	2.00 ppt
PFHxA	Perfluorohexanoic acid	NA	Not Detected	2.00 ppt
PFNA	Perfluorononanoic acid	NA	Not Detected	2.00 ppt
PFTeDA	Perfluorotetradecanoic acid	NA	Not Detected	2.00 ppt
PFTrDA	Perfluorotridecanoic acid	NA	Not Detected	2.00 ppt
PFUnDA	Perfluoroundecanoic acid	NA	Not Detected	2.00 ppt

NA: Not Applicable
ppt: Parts Per Trillion

Combined Total**	Field Blanks	Sample
PFOA + PFOS	NA	Not Detected

* PFOS, N-MeFOSAA, N-EtFOSAA, and PFHxS are showing total concentration including linear and branched isomers.

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Client Information
Trace Analytical Laboratories, Inc. ATTN: Jon Mink 2241 Black Creek Road Muskegon, MI. 49444

Sample Information		
Lab ID: 400445	Matrix: Drinking Water	Date Collected: 11/07/2018
Chain #: T18K154-03	Field Blank Collected: No	Date Received: 11/09/2018
	Sample Description: Hesperia - MW3 - Jeremy Stevens	Date Processed: 11/12/2018
		Date Analyzed: 11/13/2018
		Date Reported: 11/13/2018

Acronym	Analyte	Field Blank	Sample 400445A Sample Volume Tested: 282.50 mL	Reporting Limit
PFOS	Perfluorooctanesulfonic acid*	NA	Not Detected	2.00 ppt
PFOA	Perfluorooctanoic acid	NA	4.28 ppt	2.00 ppt
N-EtFOSAA	N-ethyl perfluorooctanesulfonamideacetic acid*	NA	Not Detected	2.00 ppt
N-MeFOSAA	N-methyl perfluorooctanesulfonamideacetic acid*	NA	Not Detected	10.00 ppt
PFBS	Perfluorobutanesulfonic acid	NA	Not Detected	10.00 ppt
PFDA	Perfluorodecanoic acid	NA	Not Detected	10.00 ppt
PFDoA	Perfluorododecanoic acid	NA	Not Detected	2.00 ppt
PFHpA	Perfluoroheptanoic acid	NA	5.07 ppt	2.00 ppt
PFHxS	Perfluorohexanesulfonic acid*	NA	Not Detected	2.00 ppt
PFHxA	Perfluorohexanoic acid	NA	7.10 ppt	2.00 ppt
PFNA	Perfluorononanoic acid	NA	Not Detected	2.00 ppt
PFTeDA	Perfluorotetradecanoic acid	NA	Not Detected	2.00 ppt
PFTrDA	Perfluorotridecanoic acid	NA	Not Detected	2.00 ppt
PFUnDA	Perfluoroundecanoic acid	NA	Not Detected	2.00 ppt

NA: Not Applicable
ppt: Parts Per Trillion

Combined Total**	Field Blanks	Sample
PFOA + PFOS	NA	4.28 ppt

* PFOS, N-MeFOSAA, N-EtFOSAA, and PFHxS are showing total concentration including linear and branched isomers.

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