ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA 537 Rev 1.1 Safe Drinking Water Analysis

Customer: Peshtigo Dept Public Works - (DW) NLS Project: 319097

Project Description: Investigative Samples

Project Title: Template: 537PPT2 Printed: 04/24/2019 09:53

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	3.6	11		
perfluorohexanoic acid (PFHxA)	ND	ppt	1	0.83	2.6		W
perfluoroheptanoic acid (PFHpA)	ND	ppt	1	0.45	1.4		
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	1	1.3	4.1		
perfluorooctanoic acid (PFOA)	ND	ppt	1	0.70	2.2		
perfluorononanoic acid (PFNA)	ND	ppt	1	1.3	4.1		V
perfluorooctanesulfonic acid (PFOS)	· ND	ppt	1	1.5	4.7		
perfluorodecanoic acid (PFDA)	ND	ppt	1	1.2	3.8		
perfluoroundecanoic acid (PFUnA)	ND	ppt	1	1.2	3.7		
perfluorododecanoic acid (PFDoA)	ND	ppt	1	0.95	3.0		
perfluorotridecanoic acid (PFTrDA)	ND	ppt	1	0.97	3.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt	1	0.88	2.8		
C13-PFHxA (SURR)	77.866%		1				S
C13-PFDA (SURR)	76.268%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Sample: 1114192 EP-3 Collected: 04/09/19 Analyzed: 04/18/19	- Analytes: 12						
ANALYTE NAME	RESULT	UNITSWWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	3.6	11		
perfluorohexanoic acid (PFHxA)	ND	ppt	1	0.83	2.6		
perfluoroheptanoic acid (PFHpA)	ND	ppt	1	0.45	1.4		
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	1	1.3	4.1	1000	
perfluorooctanoic acid (PFOA)	ND	ppt	1	0.70	2.2		
perfluorononanoic acid (PFNA)	ND	ppt	1	1.3	4.1		10
perfluorooctanesulfonic acid (PFOS)	ND	ppt	1	1.5	4.7		
perfluorodecanoic acid (PFDA)	ND	ppt	1	1.2	3.8		
perfluoroundecanoic acid (PFUnA)	ND	ppt	1	1.2	3.7		
perfluorododecanoic acid (PFDoA)	ND	ppt	1	0.95	3.0		
perfluorotridecanoic acid (PFTrDA)	ND	ppt	1	0.97	3.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt	1	0.88	2.8		
C13-PFHxA (SURR)	78.638%		1				S
C13-PFDA (SURR)	83.724%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

The PFOA branch isotope peak is included in the PFOA calculation per EPA directive.

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S = This compound is a surrogate used to evaluate the quality control of a method.

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ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	3.6	11		
perfluorohexanoic acid (PFHxA)	ND	ppt	1	0.83	2.6		
perfluoroheptanoic acid (PFHpA)	[0.85]	ppt	1	0.45	1.4		J
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	1	1.3	4.1		
perfluorooctanoic acid (PFOA)	ND	ppt	1	0.70	2.2		
perfluorononanoic acid (PFNA)	ND	ppt	1	1.3	4.1		
perfluorooctanesulfonic acid (PFOS)	ND	ppt	1	1.5	4.7		
perfluorodecanoic acid (PFDA)	ND	ppt	1	1.2	3.8		
perfluoroundecanoic acid (PFUnA)	ND	ppt	1	1.2	3.7		
perfluorododecanoic acid (PFDoA)	ND	ppt	1	0.95	3.0		
perfluorotridecanoic acid (PFTrDA)	ND	ppt	1	0.97	3.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt	1	0.88	2.8		
C13-PFHxA (SURR)	79.099%		1				S
C13-PFDA (SURR)	81.237%		1			,	S

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NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.

S = This compound is a surrogate used to evaluate the quality control of a method.

NORTHERN LAKE SERVICE, INC. **Analytical Laboratory and Environmental Services**

Ph: (715)-478-2777 Fax: (715)-478-3060

400 North Lake Avenue - Crandon, WI 54520

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460 **WDATCP Laboratory Certification No. 105-330**

EPA Laboratory ID No. WI00034

Printed: 04/24/19

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NLS Project:

319097

NLS Customer:

83954

Phone: 715 582 0545

Client:

Peshtigo Dept Public Works - (DW)

Attn: Jeff Thompson 331 French Street, Suite A Peshtigo, WI 54157 1219

Project: Investigative Samples

EP-2 NLS	ID:	111	419	1
COC: 22615				
Collected: 04	4/09/	19 1	0:00	Re

Received: 04/10/19

Perfluorinated Chemicals by EPA Method 537 Rev 1.1 see attached 04/18/19 EPA 537 Rev 1.1 721026460 Solid Phase Extraction by EPA Method 537 yes 04/16/19 EPA 537 721026460	Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Solid Phase Extraction by EPA Method 537 yes 04/16/19 EPA 537 721026460	Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached				.]	04/18/19	EPA 537 Rev 1.1	721026460
	Solid Phase Extraction by EPA Method 537	yes					04/16/19		721026460

EP-3 NLS ID: 1114192

COC: 226155:2 Matrix: DW

Collected: 04/09/19 10:30 Received: 04/10/19

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					04/18/19	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					04/16/19	EPA 537	721026460

EP-4 NLS ID: 1114193

COC: 226155:3 Matrix: DW

Collected: 04/09/19 11:00 Received: 04/10/19

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					04/18/19	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					04/16/19	EPA 537	721026460

Values in brackets represent results greater than or equal to the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD) LOD = Limit of Detection

DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000

MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

LOQ = Limit of Quantitation

NA = Not Applicable

1000 ug/L = 1 mg/L

Reviewed by:

Authorized by: R. T. Krueger President