

## Sample Summary

Job No: FA65972

ITVAVAB: TCWTS; Coupeville, WA  
Project No: 501207

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA65972-1	07/11/19	12:15 MB	07/13/19	DW	Drinking Water	WI-CV-FCWTP-EF209-071119
FA65972-2	07/11/19	12:15 MB	07/13/19	DW	Drinking Water FB	WI-CV-FCWTP-FB005-071119
FA65972-3	07/11/19	12:23 MB	07/13/19	DW	Drinking Water	WI-CV-FCWTP-IN001-071119
FA65972-4	07/11/19	12:23 MB	07/13/19	DW	Drinking Water FB	WI-CV-FCWTP-FB003-071119
FA65972-5	07/11/19	12:30 MB	07/13/19	DW	Drinking Water	WI-CV-FCWTP-INF200-071119
FA65972-6	07/11/19	12:30 MB	07/13/19	DW	Drinking Water	WI-CV-FCWTP-INF200P-071119
FA65972-7	07/11/19	12:30 MB	07/13/19	DW	Drinking Water FB	WI-CV-FCWTP-FB007-071119
FA65972-8	07/11/19	12:33 MB	07/13/19	DW	Drinking Water	WI-CV-FCWTP-EF202-071119
FA65972-9	07/11/19	12:33 MB	07/13/19	DW	Drinking Water FB	WI-CV-FCWTP-FB004-071119
FA65972-10	07/11/19	12:40 MB	07/13/19	DW	Drinking Water	WI-CV-FCWTP-MP205-071119
FA65972-11	07/11/19	12:40 MB	07/13/19	DW	Drinking Water FB	WI-CV-FCWTP-FB006-071119

# Report of Analysis

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<b>Client Sample ID:</b> WI-CV-FCWTP-EF209-071119	
<b>Lab Sample ID:</b> FA65972-1	<b>Date Sampled:</b> 07/11/19
<b>Matrix:</b> DW - Drinking Water	<b>Date Received:</b> 07/13/19
<b>Method:</b> EPA 537.1 REV 1.0 EPA 537 MOD	<b>Percent Solids:</b> n/a
<b>Project:</b> ITVAVAB: TCWTS; Coupeville, WA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q61609.D	1	07/19/19 11:25	NAF	07/18/19 08:00	OP75956	SQ1398
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

## Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q
<b>PERFLUOROALKYLCARBOXYLIC ACIDS</b>								
307-24-4	Perfluorohexanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
375-85-9	Perfluoroheptanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
335-67-1	Perfluorooctanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
375-95-1	Perfluorononanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
335-76-2	Perfluorodecanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
2058-94-8	Perfluoroundecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
307-55-1	Perfluorododecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
72629-94-8	Perfluorotridecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
376-06-7	Perfluorotetradecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	

## PERFLUOROALKYLSULFONATES

375-73-5	Perfluorobutanesulfonic acid	2.0 U		4.0	2.0	1.0	ng/l	
355-46-4	Perfluorohexanesulfonic acid	2.0 U		4.0	2.0	1.0	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	2.0 U		4.0	2.0	1.5	ng/l	

## PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	6.0 U		8.0	6.0	4.0	ng/l	
2991-50-6	EtFOSAA	6.0 U		8.0	6.0	4.0	ng/l	

## NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	10 U		20	10	6.0	ng/l	
919005-14-4	ADONA	4.0 U		8.0	4.0	2.0	ng/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	4.0 U		8.0	4.0	2.0	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	4.0 U		8.0	4.0	3.0	ng/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	105%		70-130%
	13C2-PFDA	108%		70-130%
	d5-EtFOSAA	86%		70-130%
	13C3-HFPO-DA	117%		70-130%

U = Not detected      LOD = Limit of Detection  
MCL = Maximum Contamination Level (40 CFR 141)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

# Report of Analysis

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<b>Client Sample ID:</b> WI-CV-FCWTP-FB005-071119	
<b>Lab Sample ID:</b> FA65972-2	<b>Date Sampled:</b> 07/11/19
<b>Matrix:</b> DW - Drinking Water FB	<b>Date Received:</b> 07/13/19
<b>Method:</b> EPA 537.1 REV 1.0 EPA 537 MOD	<b>Percent Solids:</b> n/a
<b>Project:</b> ITVAVAB: TCWTS; Coupeville, WA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q61610.D	1	07/19/19 11:40	NAF	07/18/19 08:00	OP75956	SQ1398
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

## Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q
<b>PERFLUOROALKYLCARBOXYLIC ACIDS</b>								
307-24-4	Perfluoroheptanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
375-85-9	Perfluoroheptanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
335-67-1	Perfluorooctanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
375-95-1	Perfluorononanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
335-76-2	Perfluorodecanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
2058-94-8	Perfluoroundecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
307-55-1	Perfluorododecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
72629-94-8	Perfluorotridecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
376-06-7	Perfluorotetradecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	

## PERFLUOROALKYLSULFONATES

375-73-5	Perfluorobutanesulfonic acid	2.0 U		4.0	2.0	1.0	ng/l	
355-46-4	Perfluorohexanesulfonic acid	2.0 U		4.0	2.0	1.0	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	2.0 U		4.0	2.0	1.5	ng/l	

## PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	6.0 U		8.0	6.0	4.0	ng/l	
2991-50-6	EtFOSAA	6.0 U		8.0	6.0	4.0	ng/l	

## NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	10 U		20	10	6.0	ng/l	
919005-14-4	ADONA	4.0 U		8.0	4.0	2.0	ng/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	4.0 U		8.0	4.0	2.0	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	4.0 U		8.0	4.0	3.0	ng/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	102%		70-130%
	13C2-PFDA	105%		70-130%
	d5-EtFOSAA	86%		70-130%
	13C3-HFPO-DA	119%		70-130%

U = Not detected      LOD = Limit of Detection  
MCL = Maximum Contamination Level (40 CFR 141)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

# Report of Analysis

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<b>Client Sample ID:</b> WI-CV-FCWTP-IN001-071119	
<b>Lab Sample ID:</b> FA65972-3	<b>Date Sampled:</b> 07/11/19
<b>Matrix:</b> DW - Drinking Water	<b>Date Received:</b> 07/13/19
<b>Method:</b> EPA 537.1 REV 1.0 EPA 537 MOD	<b>Percent Solids:</b> n/a
<b>Project:</b> ITVAVAB: TCWTS; Coupeville, WA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q61611.D	1	07/19/19 11:56	NAF	07/18/19 08:00	OP75956	SQ1398
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

## Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q
<b>PERFLUOROALKYLCARBOXYLIC ACIDS</b>								
307-24-4	Perfluorohexanoic acid	28.0		4.0	2.0	1.0	ng/l	
375-85-9	Perfluoroheptanoic acid	8.44		4.0	2.0	1.0	ng/l	
335-67-1	Perfluorooctanoic acid	49.5		4.0	2.0	1.0	ng/l	
375-95-1	Perfluorononanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
335-76-2	Perfluorodecanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
2058-94-8	Perfluoroundecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
307-55-1	Perfluorododecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
72629-94-8	Perfluorotridecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
376-06-7	Perfluorotetradecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	

## PERFLUOROALKYLSULFONATES

375-73-5	Perfluorobutanesulfonic acid	12.4		4.0	2.0	1.0	ng/l	
355-46-4	Perfluorohexanesulfonic acid	49.2		4.0	2.0	1.0	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	2.0 U		4.0	2.0	1.5	ng/l	

## PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	6.0 U		8.0	6.0	4.0	ng/l	
2991-50-6	EtFOSAA	6.0 U		8.0	6.0	4.0	ng/l	

## NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	10 U		20	10	6.0	ng/l	
919005-14-4	ADONA	4.0 U		8.0	4.0	2.0	ng/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	4.0 U		8.0	4.0	2.0	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	4.0 U		8.0	4.0	3.0	ng/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	96%		70-130%
	13C2-PFDA	96%		70-130%
	d5-EtFOSAA	79%		70-130%
	13C3-HFPO-DA	113%		70-130%

U = Not detected      LOD = Limit of Detection  
MCL = Maximum Contamination Level (40 CFR 141)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

# Report of Analysis

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<b>Client Sample ID:</b> WI-CV-FCWTP-FB003-071119	
<b>Lab Sample ID:</b> FA65972-4	<b>Date Sampled:</b> 07/11/19
<b>Matrix:</b> DW - Drinking Water FB	<b>Date Received:</b> 07/13/19
<b>Method:</b> EPA 537.1 REV 1.0 EPA 537 MOD	<b>Percent Solids:</b> n/a
<b>Project:</b> ITVAVAB: TCWTS; Coupeville, WA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q61612.D	1	07/19/19 12:11	NAF	07/18/19 08:00	OP75956	SQ1398
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

## Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q
<b>PERFLUOROALKYLCARBOXYLIC ACIDS</b>								
307-24-4	Perfluorohexanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
375-85-9	Perfluoroheptanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
335-67-1	Perfluorooctanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
375-95-1	Perfluorononanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
335-76-2	Perfluorodecanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
2058-94-8	Perfluoroundecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
307-55-1	Perfluorododecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
72629-94-8	Perfluorotridecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
376-06-7	Perfluorotetradecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	

## PERFLUOROALKYLSULFONATES

375-73-5	Perfluorobutanesulfonic acid	2.0 U		4.0	2.0	1.0	ng/l	
355-46-4	Perfluorohexanesulfonic acid	2.0 U		4.0	2.0	1.0	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	2.0 U		4.0	2.0	1.5	ng/l	

## PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	6.0 U		8.0	6.0	4.0	ng/l	
2991-50-6	EtFOSAA	6.0 U		8.0	6.0	4.0	ng/l	

## NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	10 U		20	10	6.0	ng/l	
919005-14-4	ADONA	4.0 U		8.0	4.0	2.0	ng/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	4.0 U		8.0	4.0	2.0	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	4.0 U		8.0	4.0	3.0	ng/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	102%		70-130%
	13C2-PFDA	101%		70-130%
	d5-EtFOSAA	78%		70-130%
	13C3-HFPO-DA	124%		70-130%

U = Not detected      LOD = Limit of Detection  
MCL = Maximum Contamination Level (40 CFR 141)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

# Report of Analysis

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<b>Client Sample ID:</b> WI-CV-FCWTP-INF200-071119	
<b>Lab Sample ID:</b> FA65972-5	<b>Date Sampled:</b> 07/11/19
<b>Matrix:</b> DW - Drinking Water	<b>Date Received:</b> 07/13/19
<b>Method:</b> EPA 537.1 REV 1.0 EPA 537 MOD	<b>Percent Solids:</b> n/a
<b>Project:</b> ITVAVAB: TCWTS; Coupeville, WA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q61613.D	1	07/19/19 12:26	NAF	07/18/19 08:00	OP75956	SQ1398
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

## Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q
<b>PERFLUOROALKYLCARBOXYLIC ACIDS</b>								
307-24-4	Perfluorohexanoic acid	29.6		4.0	2.0	1.0	ng/l	
375-85-9	Perfluoroheptanoic acid	9.03		4.0	2.0	1.0	ng/l	
335-67-1	Perfluorooctanoic acid	51.6		4.0	2.0	1.0	ng/l	
375-95-1	Perfluorononanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
335-76-2	Perfluorodecanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
2058-94-8	Perfluoroundecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
307-55-1	Perfluorododecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
72629-94-8	Perfluorotridecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
376-06-7	Perfluorotetradecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	

## PERFLUOROALKYLSULFONATES

375-73-5	Perfluorobutanesulfonic acid	13.0		4.0	2.0	1.0	ng/l	
355-46-4	Perfluorohexanesulfonic acid	49.4		4.0	2.0	1.0	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	2.0 U		4.0	2.0	1.5	ng/l	

## PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	6.0 U		8.0	6.0	4.0	ng/l	
2991-50-6	EtFOSAA	6.0 U		8.0	6.0	4.0	ng/l	

## NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	10 U		20	10	6.0	ng/l	
919005-14-4	ADONA	4.0 U		8.0	4.0	2.0	ng/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	4.0 U		8.0	4.0	2.0	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	4.0 U		8.0	4.0	3.0	ng/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	97%		70-130%
	13C2-PFDA	98%		70-130%
	d5-EtFOSAA	76%		70-130%
	13C3-HFPO-DA	115%		70-130%

U = Not detected      LOD = Limit of Detection  
MCL = Maximum Contamination Level (40 CFR 141)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

# Report of Analysis

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<b>Client Sample ID:</b> WI-CV-FCWTP-INF200P-071119	
<b>Lab Sample ID:</b> FA65972-6	<b>Date Sampled:</b> 07/11/19
<b>Matrix:</b> DW - Drinking Water	<b>Date Received:</b> 07/13/19
<b>Method:</b> EPA 537.1 REV 1.0 EPA 537 MOD	<b>Percent Solids:</b> n/a
<b>Project:</b> ITVAVAB: TCWTS; Coupeville, WA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q61614.D	1	07/19/19 12:42	NAF	07/18/19 08:00	OP75956	SQ1398
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

## Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q
<b>PERFLUOROALKYLCARBOXYLIC ACIDS</b>								
307-24-4	Perfluorohexanoic acid	28.7		4.0	2.0	1.0	ng/l	
375-85-9	Perfluoroheptanoic acid	8.58		4.0	2.0	1.0	ng/l	
335-67-1	Perfluorooctanoic acid	49.3		4.0	2.0	1.0	ng/l	
375-95-1	Perfluorononanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
335-76-2	Perfluorodecanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
2058-94-8	Perfluoroundecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
307-55-1	Perfluorododecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
72629-94-8	Perfluorotridecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
376-06-7	Perfluorotetradecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	

## PERFLUOROALKYLSULFONATES

375-73-5	Perfluorobutanesulfonic acid	12.8		4.0	2.0	1.0	ng/l	
355-46-4	Perfluorohexanesulfonic acid	49.4		4.0	2.0	1.0	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	2.0 U		4.0	2.0	1.5	ng/l	

## PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	6.0 U		8.0	6.0	4.0	ng/l	
2991-50-6	EtFOSAA	6.0 U		8.0	6.0	4.0	ng/l	

## NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	10 U		20	10	6.0	ng/l	
919005-14-4	ADONA	4.0 U		8.0	4.0	2.0	ng/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	4.0 U		8.0	4.0	2.0	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	4.0 U		8.0	4.0	3.0	ng/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	97%		70-130%
	13C2-PFDA	100%		70-130%
	d5-EtFOSAA	83%		70-130%
	13C3-HFPO-DA	113%		70-130%

U = Not detected      LOD = Limit of Detection  
MCL = Maximum Contamination Level (40 CFR 141)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

# Report of Analysis

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<b>Client Sample ID:</b>	WI-CV-FCWTP-FB007-071119	<b>Date Sampled:</b>	07/11/19
<b>Lab Sample ID:</b>	FA65972-7	<b>Date Received:</b>	07/13/19
<b>Matrix:</b>	DW - Drinking Water FB	<b>Percent Solids:</b>	n/a
<b>Method:</b>	EPA 537.1 REV 1.0 EPA 537 MOD		
<b>Project:</b>	ITVAVAB: TCWTS; Coupeville, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q61617.D	1	07/19/19 13:28	NAF	07/18/19 08:00	OP75956	SQ1398
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

## Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q
<b>PERFLUOROALKYLCARBOXYLIC ACIDS</b>								
307-24-4	Perfluorohexanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
375-85-9	Perfluoroheptanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
335-67-1	Perfluorooctanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
375-95-1	Perfluorononanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
335-76-2	Perfluorodecanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
2058-94-8	Perfluoroundecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
307-55-1	Perfluorododecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
72629-94-8	Perfluorotridecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
376-06-7	Perfluorotetradecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	

## PERFLUOROALKYLSULFONATES

375-73-5	Perfluorobutanesulfonic acid	2.0 U		4.0	2.0	1.0	ng/l	
355-46-4	Perfluorohexanesulfonic acid	2.0 U		4.0	2.0	1.0	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	2.0 U		4.0	2.0	1.5	ng/l	

## PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	6.0 U		8.0	6.0	4.0	ng/l	
2991-50-6	EtFOSAA	6.0 U		8.0	6.0	4.0	ng/l	

## NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	10 U		20	10	6.0	ng/l	
919005-14-4	ADONA	4.0 U		8.0	4.0	2.0	ng/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	4.0 U		8.0	4.0	2.0	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	4.0 U		8.0	4.0	3.0	ng/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	103%		70-130%
	13C2-PFDA	100%		70-130%
	d5-EtFOSAA	85%		70-130%
	13C3-HFPO-DA	122%		70-130%

U = Not detected      LOD = Limit of Detection  
MCL = Maximum Contamination Level (40 CFR 141)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound



# Report of Analysis

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<b>Client Sample ID:</b>	WI-CV-FCWTP-EF202-071119	<b>Date Sampled:</b>	07/11/19
<b>Lab Sample ID:</b>	FA65972-8	<b>Date Received:</b>	07/13/19
<b>Matrix:</b>	DW - Drinking Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	EPA 537.1 REV 1.0 EPA 537 MOD		
<b>Project:</b>	ITVAVAB: TCWTS; Coupeville, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q61618.D	1	07/19/19 13:47	NAF	07/18/19 08:00	OP75956	SQ1398
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

## Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q
<b>PERFLUOROALKYLCARBOXYLIC ACIDS</b>								
307-24-4	Perfluorohexanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
375-85-9	Perfluoroheptanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
335-67-1	Perfluorooctanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
375-95-1	Perfluorononanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
335-76-2	Perfluorodecanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
2058-94-8	Perfluoroundecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
307-55-1	Perfluorododecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
72629-94-8	Perfluorotridecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
376-06-7	Perfluorotetradecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	

## PERFLUOROALKYLSULFONATES

375-73-5	Perfluorobutanesulfonic acid	2.0 U		4.0	2.0	1.0	ng/l	
355-46-4	Perfluorohexanesulfonic acid	2.0 U		4.0	2.0	1.0	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	2.0 U		4.0	2.0	1.5	ng/l	

## PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	6.0 U		8.0	6.0	4.0	ng/l	
2991-50-6	EtFOSAA	6.0 U		8.0	6.0	4.0	ng/l	

## NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	10 U		20	10	6.0	ng/l	
919005-14-4	ADONA	4.0 U		8.0	4.0	2.0	ng/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	4.0 U		8.0	4.0	2.0	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	4.0 U		8.0	4.0	3.0	ng/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	104%		70-130%
	13C2-PFDA	108%		70-130%
	d5-EtFOSAA	83%		70-130%
	13C3-HFPO-DA	117%		70-130%

U = Not detected      LOD = Limit of Detection  
MCL = Maximum Contamination Level (40 CFR 141)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b>	WI-CV-FCWTP-FB004-071119	
<b>Lab Sample ID:</b>	FA65972-9	<b>Date Sampled:</b> 07/11/19
<b>Matrix:</b>	DW - Drinking Water FB	<b>Date Received:</b> 07/13/19
<b>Method:</b>	EPA 537.1 REV 1.0 EPA 537 MOD	<b>Percent Solids:</b> n/a
<b>Project:</b>	ITVAVAB: TCWTS; Coupeville, WA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q61619.D	1	07/19/19 14:02	NAF	07/18/19 08:00	OP75956	SQ1398
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

## Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q
<b>PERFLUOROALKYLCARBOXYLIC ACIDS</b>								
307-24-4	Perfluorohexanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
375-85-9	Perfluoroheptanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
335-67-1	Perfluorooctanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
375-95-1	Perfluorononanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
335-76-2	Perfluorodecanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
2058-94-8	Perfluoroundecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
307-55-1	Perfluorododecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
72629-94-8	Perfluorotridecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
376-06-7	Perfluorotetradecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	

## PERFLUOROALKYLSULFONATES

375-73-5	Perfluorobutanesulfonic acid	2.0 U		4.0	2.0	1.0	ng/l	
355-46-4	Perfluorohexanesulfonic acid	2.0 U		4.0	2.0	1.0	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	2.0 U		4.0	2.0	1.5	ng/l	

## PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	6.0 U		8.0	6.0	4.0	ng/l	
2991-50-6	EtFOSAA	6.0 U		8.0	6.0	4.0	ng/l	

## NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	10 U		20	10	6.0	ng/l	
919005-14-4	ADONA	4.0 U		8.0	4.0	2.0	ng/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	4.0 U		8.0	4.0	2.0	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	4.0 U		8.0	4.0	3.0	ng/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	104%		70-130%
	13C2-PFDA	109%		70-130%
	d5-EtFOSAA	87%		70-130%
	13C3-HFPO-DA	119%		70-130%

U = Not detected      LOD = Limit of Detection  
MCL = Maximum Contamination Level (40 CFR 141)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> WI-CV-FCWTP-MP205-071119	
<b>Lab Sample ID:</b> FA65972-10	<b>Date Sampled:</b> 07/11/19
<b>Matrix:</b> DW - Drinking Water	<b>Date Received:</b> 07/13/19
<b>Method:</b> EPA 537.1 REV 1.0 EPA 537 MOD	<b>Percent Solids:</b> n/a
<b>Project:</b> ITVAVAB: TCWTS; Coupeville, WA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q61620.D	1	07/19/19 14:17	NAF	07/18/19 08:00	OP75956	SQ1398
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

## Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q
<b>PERFLUOROALKYLCARBOXYLIC ACIDS</b>								
307-24-4	Perfluorohexanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
375-85-9	Perfluoroheptanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
335-67-1	Perfluorooctanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
375-95-1	Perfluorononanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
335-76-2	Perfluorodecanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
2058-94-8	Perfluoroundecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
307-55-1	Perfluorododecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
72629-94-8	Perfluorotridecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
376-06-7	Perfluorotetradecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	

## PERFLUOROALKYLSULFONATES

375-73-5	Perfluorobutanesulfonic acid	2.0 U		4.0	2.0	1.0	ng/l	
355-46-4	Perfluorohexanesulfonic acid	2.0 U		4.0	2.0	1.0	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	2.0 U		4.0	2.0	1.5	ng/l	

## PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	6.0 U		8.0	6.0	4.0	ng/l	
2991-50-6	EtFOSAA	6.0 U		8.0	6.0	4.0	ng/l	

## NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	10 U		20	10	6.0	ng/l	
919005-14-4	ADONA	4.0 U		8.0	4.0	2.0	ng/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	4.0 U		8.0	4.0	2.0	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	4.0 U		8.0	4.0	3.0	ng/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	102%		70-130%
	13C2-PFDA	108%		70-130%
	d5-EtFOSAA	88%		70-130%
	13C3-HFPO-DA	120%		70-130%

U = Not detected      LOD = Limit of Detection  
MCL = Maximum Contamination Level (40 CFR 141)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

# Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b>	WI-CV-FCWTP-FB006-071119		
<b>Lab Sample ID:</b>	FA65972-11	<b>Date Sampled:</b>	07/11/19
<b>Matrix:</b>	DW - Drinking Water FB	<b>Date Received:</b>	07/13/19
<b>Method:</b>	EPA 537.1 REV 1.0 EPA 537 MOD	<b>Percent Solids:</b>	n/a
<b>Project:</b>	ITVAVAB: TCWTS; Coupeville, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q61621.D	1	07/19/19 14:33	NAF	07/18/19 08:00	OP75956	SQ1398
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

## Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	LOQ	LOD	DL	Units	Q
<b>PERFLUOROALKYLCARBOXYLIC ACIDS</b>								
307-24-4	Perfluorohexanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
375-85-9	Perfluoroheptanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
335-67-1	Perfluorooctanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
375-95-1	Perfluorononanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
335-76-2	Perfluorodecanoic acid	2.0 U		4.0	2.0	1.0	ng/l	
2058-94-8	Perfluoroundecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
307-55-1	Perfluorododecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
72629-94-8	Perfluorotridecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	
376-06-7	Perfluorotetradecanoic acid	3.0 U		4.0	3.0	2.0	ng/l	

## PERFLUOROALKYLSULFONATES

375-73-5	Perfluorobutanesulfonic acid	2.0 U		4.0	2.0	1.0	ng/l	
355-46-4	Perfluorohexanesulfonic acid	2.0 U		4.0	2.0	1.0	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	2.0 U		4.0	2.0	1.5	ng/l	

## PERFLUOROOCCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	6.0 U		8.0	6.0	4.0	ng/l	
2991-50-6	EtFOSAA	6.0 U		8.0	6.0	4.0	ng/l	

## NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	10 U		20	10	6.0	ng/l	
919005-14-4	ADONA	4.0 U		8.0	4.0	2.0	ng/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	4.0 U		8.0	4.0	2.0	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	4.0 U		8.0	4.0	3.0	ng/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	106%		70-130%
	13C2-PFDA	108%		70-130%
	d5-EtFOSAA	87%		70-130%
	13C3-HFPO-DA	118%		70-130%

U = Not detected      LOD = Limit of Detection  
MCL = Maximum Contamination Level (40 CFR 141)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound



CHAIN OF CUSTODY

FA65972

Ref. Document # 501207-07112019

Page 1 of 1

Project Manager Jeff Gilliam

Project Number: 501207
Project Name: TCWTS
Subcontract Agreement #: TBD
Waybill Number:
SGS North America, Inc
Lab Destination: 4405 Vineland Road, Suite C-15
Orlando, FL 32811
Lab Contact Name / ph. #: Heather Wandrey 609-495-5321

Table with columns for Analyses Requested: PFAS EPA 537.1, FRB QSM 5.1, MS/MSD QSM 5.1, and Cooler Temperature.

Send Report To: Natasha Sullivan
Phone/Fax Number: natasha.sullivan@aptim.com
Address: 434 Wanamaker Rd
City: Coupeville, WA 98239

Sampler's Name(s): Mathew Bryan

Collection Information

Main data table with columns: Sample ID, Location ID, Date, Time, Method, Matrix, # of containers, Preservative, Container Type, and analysis results for PFAS, FRB, and MS/MSD.

Special Instructions section containing turnaround time options (Rush TAT, 24-hr, 48-hr, 72-hr, 5-day), QC levels (Stage 2A, 2B, 3), and signatures of Mathew Ben and Pettitt with dates.

2.9'

FA65972: Chain of Custody

Page 1 of 2

## SGS Sample Receipt Summary

Job Number: FA65972

Client: APTIM

Project: 501207

Date / Time Received: 7/13/2019 9:10:00 AM

Delivery Method: FX

Airbill #s: \_\_\_\_\_

Therm ID: IR 1;                      Therm CF: 1;                      # of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (1.9);

Cooler Temps (Corrected) °C: Cooler 1: (2.9);

<u>Cooler Information</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Temp criteria achieved	<input checked="" type="checkbox"/>		<input type="checkbox"/>
4. Cooler temp verification	<u>IR Gun</u>		
5. Cooler media	<u>Ice (Bag)</u>		

<u>Sample Information</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Sample labels present on bottles	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Samples preserved properly	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
3. Sufficient volume/containers recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Condition of sample	<u>Intact</u>			
5. Sample recvd within HT	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
6. Dates/Times/IDs on COC match Sample Label	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
7. VOCs have headspace	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
9. Compositing instructions clear	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Voa Soil Kits/Jars received past 48hrs?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. % Solids Jar received?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. Residual Chlorine Present?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Trip Blank Information</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Trip Blank listed on COC	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>W</u>	<u>or</u>	<u>S</u>	<u>N/A</u>
3. Type Of TB Received	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_      Number of 5035 Field Kits: \_\_\_\_\_      Number of Lab Filtered Metals: \_\_\_\_\_

Test Strip Lot #: pH 0-3 230315      pH 10-12 219813A      Other: (Specify) \_\_\_\_\_

Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: PETERH

Date: 7/13/2019 9:10:00 AM

Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_