

# Per- and Polyfluoroalkyl Substances (PFAS) Report

	PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form												
I. PWS INFO	ORM/	ATION: Please r	refer to your N	lassDEP Wa	ter Quality Sa	mpling Scho	edule (WQS	S) to help	complete t	this form			
PWS ID #:		2187000			Ci	ty / Town:	Millis						
PWS Name	:	MILLIS WA	TER DEPT				P\	<b>VS</b> Class:	COM	⊠ NTNC	□ TNC □		
MassDEP Location (LOC) ID#		N	MassDEP Locati	on Name		Sam	ple Informat	ion	Date Colle	ected	Collected By		
04G	F	INISHED: WEL	L #4 SOUTH	END PONE	O WTF	☐ ( <b>M</b> )ultip ☑ ( <b>S</b> )ingle							
Routine or			Resubmitted or	•			If Resubmitted Report, list below:						
Special Sampl			mation Report	- ·		Reason for Re			(2) Collec	ction Date of	of Original Sample		
RS S		✓ Original ☐ Res				Reanalysis			is a field rea	agent blook			
The samples were	AMPLE COMMENTS - Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during the samples were received at the laboratory above the required temperature range. The samples were transported to the						•				sampling site. This is		
considered accept	able sin	ce the samples were in	the process of cooli	ng.									
II. ANALYTI	ANALYTICAL LABORATORY INFORMATION:												
Primary Lab Cert. #: M-MA086 Primary Lab Name: Alpha Analytical				alytical			Sub	contracte	d? (Y/N) Y				
Analysis Lab	Cert.	#: M-MA030	Analysi	s Lab Name	: Alpha An	alvtical							
•					<b>,</b>								
If Analysis Lab is not certified by MassDEP or U.S. EPA,													
Lab Method	t	Date Extracted Date Dilution Factor					Lab Sample IDs#						
					Primary Lab	):			L204549	2-01			
537.1		11/02/20	11/05/20	1	Subcontrac	ted Lab:			L204549	2-01			
CAS#			REGULATED P	FAS CONTAM	IINANTS		Result <sup>1</sup> ng/L	Result <sup>2</sup> Qualifier	MCL* ng/L	MDL ng/L	MRL ng/L		
1763-2	23-1	Perfluorooctane S	ulfonic Acid (PF	OS)			1.58	J		0.452	1.84		
335-6	67-1	Perfluorooctanoic	Acid (PFOA)				4.00			0.573	1.84		
355-4	16-4	Perfluorohexane S	Sulfonic Acid (Pl	FHxS)			1.62	J		0.441	1.84		
375-9	95-1	Perfluorononanoid	C Acid (PFNA)				ND		_	0.437	1.84		
375-8	35-9	Perfluorohepatano	oic Acid (PFHpA	)			0.991	J		0.239	1.84		
335-7	76-2	Perfluorodecanoio	acid (PFDA)				ND			0.591	1.84		
F	Result	PFOS, PFOA, PFI s at or above the loded by a Result Q	MRL; do not in	clude estimat		de =	4.00		20	-	-		
		ι	JNREGULATED	PFAS CONTA	MINANTS								
375-7	73-5	Perfluorobutane s	ulfonic acid (PF	BS)			0.698	J		0.261	1.84		
307-5	55-1	Perfluorododecan	oic acid (PFDoA	<b>a)</b>			ND			0.595	1.84		
307-2	24-4	Perfluorohexanoio	acid (PFHxA)				1.32	J		0.242	1.84		
376-0	06-7	Perfluorotetradeca	anoic acid (PFTA	A)			ND			0.396	1.84		
72629-9	94-8	Perfluorotridecand	oic acid (PFTrDA	A)			ND			0.466	1.84		
2058-9	94-8	Perfluoroundecan	oic acid (PFUnA	١)			ND			0.749	1.84		
2991-5	50-6	N-ethyl perfluoroo	ctanesulfonami	doacetic acid	(NEtFOSAA)		ND		-	0.874	1.84		
2355-31-9 N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)				ND			0.859	1.84					
763051-9	92-9	11-chloroeicosaflu	ioro-3-oxaunded	ane-1-sulfoni	c acid (11CI-PF	3OUdS)	ND			0.193	1.84		
756426-5	58-1	9-chlorohexadeca	fluoro-3-oxanon	e-1-sulfonic a	cid (9CI-PF3ON	S)	ND			0.253	1.84		
919005-1	14-4	4,8-dioxa-3H-perflo	uorononanoic a	cid (ADONA)			ND			0.066	1.84		
13252-1	13-6	Hexafluoropropyle	ene oxide dimer	acid (HFPO-D	A)		ND			0.415	3.67		

<sup>&</sup>lt;sup>1</sup> A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL. <sup>2</sup> All qualifiers must be described under Lab Analysis Comments on page 2.



# Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 2 of 2

PWS ID#:

2187000

Lab Sample ID#:

Primary Lab: L2045492-01 Subcontracted Lab: L2045492-01

CAS#	UNREGULATED PFAS CONTAMINANTS	Result <sup>1</sup> ng/L	Result <sup>2</sup> Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L
				-		

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
<sup>13</sup> C <sub>2</sub> -PFHxA	85	
<sup>13</sup> C <sub>2</sub> -PFDA	94	
d₅-NEtFOSAA	87	
<sup>13</sup> C <sub>3</sub> -HFPO-DA	76	

Note: <sup>13</sup>C<sub>3</sub>-HFPO-DA is not required for EPA Method 537 v1.1

In addition to the S	UR above you must attach the results of the	ne ongoing QC	results as specified by the method for the	sample's extraction	n batch.					
□ Laboratory and     □	alytical report with QC attached (check o	one item belov	<i>ı</i> ).							
	☐ All associated QC criteria reported within control limits including Lab Reagent/Method Blank (LRB), Field Reagent Blank (FRB), Surrogate Standards (SUR), Laboratory Fortified Blank (LFB), Matrix Spike/Duplicate (LFSM/LFSMD or FD) and RPD.									
☑ All associated sample and/or QC batch criteria not met. See Lab Analysis Comments below and narrative in attached report.										
Lab Analysis Comments: (include sample/method parameters outside of or affecting QC controls/limits and result qualifiers)										
Result Qualifier	ualifier Qualifier Description									
J	The target analyte concentration is below	he target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit.								
Other Analysis Comments:										
* MCL or proposed	MCL									
	es of law that I am the person authorized to fill o		mary Lab Director Signature:	Joseph Wi	ukins					
	formation contained herein is true, accurate as extent of my knowledge.	na	Date:	11/12/2	20					
month in which	If not submitting these results electronically, mail <u>TWO</u> copies of this report to your MassDEP Regional Office no later than 10 days after the end of the month in which you received this report <u>or</u> no later than 10 days after the end of the reporting period, whichever is sooner. Note that during the Massachusetts COVID-19 state of emergency, in addition to submitting by mail reports may be emailed to program.director-dwp@mass.gov.									
MassDEP REVIEW	V STATUS (Initial & Date)	Review			□wQTS					
☐ Accepted	Disapproved	Comments			Data Entered					



# Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 1 of 2

I.	PWS INFOR	MAT	ION: Please	refer to your	MassDEP Wa	ter	Quality Sai	npling Scho	edule	(WQS	S) to help	complete	this form		
Ρ	WS ID #:		2187000				Cit	y / Town:	Mil	lis					
Ρ	WS Name:		MILLIS WA	TER DEPT						PW	/S Class:	COM	⊠ NTNC	; 🗆	TNC 🗌
	MassDEP Location (LOC) ID#		•	MassDEP Loc	ation Name			Sam	ple In	formatio	on	Date Colle	ected	Co	ollected By
	04G	FIN	ISHED: WEL	L #4 SOUT	H END PONI	<b>D</b> W	VTF (FB)	☐ ( <b>M</b> )ultip ☑ ( <b>S</b> )ingle		☐ ( <b>R</b> ):	aw nished	10/21/	/20		R.M.
_	Routine or			Resubmitted							itted Repor	t, list below			
	pecial Sample ☐ RS ☐ SS			mation Repor		_		Reason for Re			ti	(2) Colle	ction Date o	of Ori	ginal Sample
_	AMPLE COMME		Original  Res				<del></del>	Reanalysis				is a field rea	agent blank		
Th	ne samples were reco	eived a	t the laboratory abo	ve the required te	mperature range. Th		` '		•					samp	ling site. This is
CC	onsidered acceptable	since	the samples were in	the process of co	ooling.									_	
II	. ANALYTICAL LABORATORY INFORMATION:														
Ρ	Primary Lab Cert. #: M-MA086 Primary Lab Name: Alpha Analytical				lytical				Sub	contracted	d? (\	Y/N) Y			
Α	Analysis Lab Cert. #: M-MA030 Analysis Lab Nam			sis Lab Name	:	Alpha Ana	lytical								
	f Analysis Lab is not certified by MassDEP or U.S. EPA, ist certification authority:														
				_											
	Lab Method		Date Extracted Date Dilution Analyzed Factor					Lab Sample IDs#							
	F07.4	11/02/20 11/05/20 1				Р	rimary Lab:		L2045492-02						
	537.1		11/02/20	11/05/20	1	S	ubcontracto	ed Lab:				L204549	2-02		
ſ									_	. 1	2			$\neg$	
	CAS#			REGULATED	PFAS CONTAM	IINA	ANTS			sult <sup>1</sup> g/L	Result <sup>2</sup> Qualifier	MCL* ng/L	MDL ng/L		MRL ng/L
	1763-23-1	Pe	erfluorooctane S	Sulfonic Acid (	PFOS)				١	ND			0.464		1.88
l	335-67-1	Pe	erfluorooctanoic	Acid (PFOA)	<u> </u>				١	ND		_	0.588		1.88
l	355-46-4	Pe	erfluorohexane \$	Sulfonic Acid	PFHxS)				١	ND			0.452		1.88
İ	375-95-1	Pe	erfluorononanoi	c Acid (PFNA)					١	ND		-	0.448		1.88
İ	375-85-9	Pe	erfluorohepatan	oic Acid (PFH <sub>I</sub>	oA)				١	ND			0.245		1.88
ĺ	335-76-2	Pe	erfluorodecanoi	c acid (PFDA)					١	ND			0.607		1.88
	Res	ults a		MRL; do not	PFHpA and PF include estimat next column)			e =				20	-		-
İ			·	JNREGULATE	D PFAS CONTA	MIN	IANTS								
Ī	375-73-5	Pe	erfluorobutane s	sulfonic acid (I	PFBS)				١	ND			0.268		1.88
l	307-55-1	Pe	erfluorododecan	oic acid (PFD	oA)				١	ND			0.610		1.88
l	307-24-4	Pe	erfluorohexanoi	c acid (PFHxA					١	ND			0.248		1.88
ĺ	376-06-7	Pe	erfluorotetradec	anoic acid (PF	TA)				١	ND			0.407		1.88
	72629-94-8	Pe	erfluorotridecan	oic acid (PFTr	DA)				١	۷D			0.479		1.88
	2058-94-8	Pe	erfluoroundecan	oic acid (PFU	nA)				١	۷D			0.769		1.88
	2991-50-6	N-	ethyl perfluoroc	octanesulfona	midoacetic acid	(NE	tFOSAA)		١	۷D		_	0.897		1.88
ĺ	2355-31-9	N-	methyl perfluor	ooctanesulfor	amidoacetic aci	id (N	NMeFOSAA)			۷D			0.882		1.88
	763051-92-9	11	-chloroeicosaflı	uoro-3-oxauno	lecane-1-sulfoni	c ac	cid (11CI-PF3	OUdS)		۷D			0.198		1.88
	756426-58-1	9-	chlorohexadeca	fluoro-3-oxan	one-1-sulfonic a	cid	(9CI-PF3ONS	5)		ND			0.259		1.88
	919005-14-4	4,	8-dioxa-3H-perfl	uorononanoid	acid (ADONA)					ND			0.068		1.88
ĺ	13252-13-6	Не	exafluoropropyl	ene oxide dim	er acid (HFPO-D	A)			N	ND	<u></u>		0.426		3.77

<sup>&</sup>lt;sup>1</sup> A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL. <sup>2</sup> All qualifiers must be described under Lab Analysis Comments on page 2.



# Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 2 of 2

PWS ID#:

2187000

Lab Sample ID#:

Primary Lab: L2045492-02 Subcontracted Lab: L2045492-02

CAS#	UNREGULATED PFAS CONTAMINANTS	Result <sup>1</sup> ng/L	Result <sup>2</sup> Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L
				-		

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
<sup>13</sup> C <sub>2</sub> -PFHxA	101	
<sup>13</sup> C <sub>2</sub> -PFDA	107	
d₅-NEtFOSAA	85	
<sup>13</sup> C <sub>3</sub> -HFPO-DA	94	

	Note: "C <sub>3</sub> -HFPO-DA is not red	quired for EPA	wethod 557 VI.I							
In addition to the S	UR above you must attach the results of th	ne ongoing QC	results as specified by the method fo	r the sample's extraction	n batch.					
□ Laboratory ana	alytical report with QC attached (check	one item belov	<b>/</b> ).							
	☐ All associated QC criteria reported within control limits including Lab Reagent/Method Blank (LRB), Field Reagent Blank (FRB), Surrogate Standards (SUR), Laboratory Fortified Blank (LFB), Matrix Spike/Duplicate (LFSM/LFSMD or FD) and RPD.									
☐ All associated sample and/or QC batch criteria not met. See Lab Analysis Comments below and narrative in attached report.										
Lab Analysis Com	nments: (include sample/method paramet	ers outside of o	r affecting QC controls/limits and res	ult qualifiers)						
Result Qualifier	Qualifier Description									
J	The target analyte concentration is below	v the quantitation	n limit (RL), but above the Method D	etection Limit.						
Other Analysis Comments:	L2045492-02 and -03: The samp results of the re-analysis are rep		nalyzed due to QC failures in	the original analysi	s. The					
* MCL or proposed	MCL									
	es of law that I am the person authorized to fill o		mary Lab Director Signature:	Joseph W	cukins					
	formation contained herein is true, accurate an extent of my knowledge.	nd	Date:	11/12/2						
month in whic	If not submitting these results electronically, mail <u>TWO</u> copies of this report to your MassDEP Regional Office no later than 10 days after the end of the month in which you received this report <u>or</u> no later than 10 days after the end of the reporting period, whichever is sooner. Note that during the Massachusetts COVID-19 state of emergency, in addition to submitting by mail reports may be emailed to program.director-dwp@mass.gov.									
MassDEP REVIEW	/ STATUS (Initial & Date)	Review			□wqts					
☐ Accepted	Disapproved	Comments			Data Entered					



# Per- and Polyfluoroalkyl Substances (PFAS) Report

I. PWS INFORM	MATION: Please r	refer to your N	lassDEP Wa	ter Quality Sa	mpling Sche	edule (WQ	SS) to help	complete t	his form			
PWS ID #:	2187000			Cit	y / Town:	Millis						
PWS Name:	MILLIS WA	TER DEPT				P	WS Class	COM	⊠ NTNC	TNC 🗌		
MassDEP Location (LOC) ID#	N	MassDEP Locati	on Name		Sam	ple Informa	tion	Date Collected		Collected By		
06G	FINISHED: WEL	L #6 PAINE	WTF		☐ ( <b>M</b> )ultip ☑ ( <b>S</b> )ingle		R)aw F)inished	10/21/	20	R.M.		
Routine or	Original,	Resubmitted or	f		If Resubmitted Report, list below:							
Special Sample	Confirm	mation Report		(1) F	Reason for Re	submission	1	(2) Collec	ction Date o	of Original Sample		
⊠ RS □ SS	☑ Original ☐ Res	submitted  C	onfirmation	Resample	Reanalysis	s Report	Correction					
	ITS - Such as, if a Man		-							sampling site. This is		
	e samples were received at the laboratory above the required temperature range. The samples were transported to t nsidered acceptable since the samples were in the process of cooling.						ooder with loc a	na delivered dii	cony monitano	Sampling Site. This is		
II. ANALYTICA	L LABORATORY	'INFORMAT	ION:									
Primary Lab Cert. #: M-MA086 Primary Lab Name: Alpha Analytical				lytical			Sub	contracte	d? (Y/N) Y			
Analysis Lab Ce	rt. #: M-MA030	Analysi	s Lab Name	: Alpha Ana	lytical							
If Analysis Lab is	Analysis Lab is not certified by MassDEP or U.S. EPA,											
list certification		iassuer or U.	.S. EPA,									
		Date	Dilution									
Lab Method	Date Extracted	Analyzed	Factor			Lab Sample IDs#						
537.1	11/02/20	11/02/20 11/05/20 1			:			L204549	2-03			
337.1	11/02/20	11/03/20	'	Subcontract	ed Lab:			L204549	2-03			
						Result <sup>1</sup>	Result <sup>2</sup>	MCL*	MDL	MRL		
CAS#		REGULATED P	FAS CONTAM	IINANTS		ng/L	Qualifier		ng/L	ng/L		
1763-23-1	Perfluorooctane S	ulfonic Acid (PF	OS)			3.02			0.453	1.84		
335-67-1	Perfluorooctanoic	Acid (PFOA)				3.06			0.575	1.84		
355-46-4	Perfluorohexane S	Sulfonic Acid (Pl	FHxS)			2.40			0.442	1.84		
375-95-1	Perfluorononanoio	C Acid (PFNA)				ND		-	0.439	1.84		
375-85-9	Perfluorohepatano	oic Acid (PFHpA	.)			1.47	J		0.240	1.84		
335-76-2	Perfluorodecanoic	acid (PFDA)				ND			0.593	1.84		
Resu	of PFOS, PFOA, PFI cults at or above the for cribed by a Result Q	MRL; do not in	clude estimat		e =	8.48		20	-	-		
	U	JNREGULATED	PFAS CONTA	MINANTS								
375-73-5	Perfluorobutane s	ulfonic acid (PF	BS)			1.55	J		0.262	1.84		
307-55-1	Perfluorododecan	oic acid (PFDoA	١)			ND			0.597	1.84		
307-24-4	Perfluorohexanoic	acid (PFHxA)				3.28			0.242	1.84		
376-06-7	Perfluorotetradeca	anoic acid (PFT/	<b>A</b> )			0.700	J		0.398	1.84		
72629-94-8	Perfluorotridecand	oic acid (PFTrDA	A)			ND			0.468	1.84		
2058-94-8	Perfluoroundecan	oic acid (PFUnA	<b>1)</b>			ND			0.752	1.84		
2991-50-6	N-ethyl perfluoroo	ctanesulfonami	doacetic acid	(NEtFOSAA)		0.921	J	-	0.877	1.84		
2355-31-9 N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)				ND			0.862	1.84				
763051-92-9	11-chloroeicosaflu	ıoro-3-oxaunde	cane-1-sulfoni	c acid (11CI-PF3	OUdS)	ND			0.194	1.84		
756426-58-1	9-chlorohexadecat	fluoro-3-oxanon	e-1-sulfonic a	cid (9CI-PF3ONS	S)	ND			0.254	1.84		
919005-14-4	4,8-dioxa-3H-perflu	uorononanoic a	cid (ADONA)			ND			0.066	1.84		
13252-13-6	Hexafluoropropyle	ene oxide dimer	acid (HFPO-D	A)		ND			0.416	3.68		

<sup>&</sup>lt;sup>1</sup> A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL. <sup>2</sup> All qualifiers must be described under Lab Analysis Comments on page 2.



#### Per- and Polyfluoroalkyl Substances (PFAS) Report Page 2 of 2

PWS ID#:

2187000

Lab Sample ID#:

Primary Lab: L2045492-03 Subcontracted Lab: L2045492-03

CAS#	UNREGULATED PFAS CONTAMINANTS	Result <sup>1</sup> ng/L	Result <sup>2</sup> Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L
				-		

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
<sup>13</sup> C <sub>2</sub> -PFHxA	93	
<sup>13</sup> C <sub>2</sub> -PFDA	110	
d₅-NEtFOSAA	87	
<sup>13</sup> C <sub>3</sub> -HFPO-DA	94	

Note: 13C.-HEPO-DA is not required for EPA Method 537 v1.1

	Note. C <sub>3</sub> -HFFO-DA is not rec	Jan 64 16. 2. 7 1								
In addition to the S	UR above you must attach the results of th	e ongoing QC	results as specified by the method for	or the sample's extraction	n batch.					
□ Laboratory ana	alytical report with QC attached (check o	ne item belov	<i>t</i> ).							
	☐ All associated QC criteria reported within control limits including Lab Reagent/Method Blank (LRB), Field Reagent Blank (FRB), Surrogate Standards (SUR), Laboratory Fortified Blank (LFB), Matrix Spike/Duplicate (LFSM/LFSMD or FD) and RPD.									
☑ All associated sample and/or QC batch criteria not met. See Lab Analysis Comments below and narrative in attached report.										
Lab Analysis Com	nments: (include sample/method parameter	ers outside of o	or affecting QC controls/limits and re	sult qualifiers)						
Result Qualifier	Qualifier Description									
J	The target analyte concentration is below	the quantitation	on limit (RL), but above the Method [	Detection Limit.						
Other Analysis Comments:	L2045492-02 and -03: The samp results of the re-analysis are report		nalyzed due to QC failures in	the original analysi	s. The					
* MCL or proposed	MCL									
I certify under penaltie	es of law that I am the person authorized to fill of formation contained herein is true, accurate ar		mary Lab Director Signature:	Joseph W.	cukins					
	extent of my knowledge.	d	Date:	11/12/2	20					
month in whic	hese results electronically, mail <u>TWO</u> copie th you received this report <u>or</u> no later than tts COVID-19 state of emergency, in additi	10 days after th	e end of the reporting period, which	ever is sooner. Note tha	t during the					
MassDEP REVIEW	/ STATUS (Initial & Date)	Review			□WQTS					
☐ Accepted	Disapproved	Comments Dat								



# Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 1 of 2

I. PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling School							edule (WQSS) to help complete this form							
PWS ID #: 2187000				City / Town: Millis										
PWS Name: MILLIS WATER DEPT				PWS Class				/S Class:	s: COM   NTNC   TNC					
MassDEP Location MassDEP Location Name (LOC) ID#					Sample			formation	on	Date Collected		Collected By		
06G FINISHED: WELL #6 PAINE WTF (FB)					☐ ( <b>M</b> )ultiple ☐ ( <b>R</b> )aw ☐ ( <b>S</b> )ingle ☐ ( <b>F</b> )inished				10/21/20			R.M.		
Routine or Original, Resubmitted or					If Resubmitted Repo					rt, list below:				
Special Sample Confirmation Report					(1) Reason for Resubmission (2) Collection Date of Resample Reanalysis Report Correction						f Ori	ginal Sample		
						<u> </u>				<u>L</u>	io o field rea	sant blank		
The samples were re	eceived a	at the laboratory abov	ve the required temp	perature range. Th		` '							sampl	ing site. This is
considered acceptab	le since	the samples were in	the process of cooli	ng.									_	
II. ANALYTIC	AL L	ABORATORY	'INFORMAT	ION:										
Primary Lab C	ert. #:	M-MA086	Primary	y Lab Name:		Alpha Ana	lytical				Sub	contracted	Y) ?t	//N) Y
Analysis Lab (	ert.#	: M-MA030	Analysi	s Lab Name	:	Alpha Ana	lytical							
If Ameliania I ali		4	4DED II	C EDA	ļ									
			lassueP or U.	5. EPA,										
			Date	Dilution										
Lab Method		Date Extracted Date Dilution Analyzed Factor						Lab Sample IDs#						
537.1	1 11/02/20 11/05/20 1			1	Pr	imary Lab:					L2045492-04			
					Sı	Subcontracted Lab: L2045492-04								
CAS#			REGULATED P	FAS CONTAM	IINA	INANTS			sult <sup>1</sup> g/L	Result <sup>2</sup> Qualifier	MCL* ng/L	MDL ng/L		MRL ng/L
1763-23-	-1 P	erfluorooctane S	ulfonic Acid (PF	OS)				0.	579	J		0.445		1.81
335-67-	-1 P	erfluorooctanoic	Acid (PFOA)					0.	579	J		0.564		1.81
355-46-	-4 P	erfluorohexane S	Sulfonic Acid (PI	FHxS)				١	ND			0.434		1.81
375-95-	-1 P	erfluorononanoio	c Acid (PFNA)					0.	470	J	_	0.431		1.81
375-85-	.9 <b>P</b>	erfluorohepatano	oic Acid (PFHpA	)			0.434 J					0.235		1.81
			• • •					١	ND			0.583		1.81
Re	esults a	at or above the I	MRL; do not inc	clude estimat			e =				20	-		-
		U	JNREGULATED	PFAS CONTA	MIN	ANTS	Ī							
375-73-	-5 <b>P</b>	erfluorobutane s	ulfonic acid (PF	BS)				١	ND			0.257		1.81
307-55-	-1 P	erfluorododecan	oic acid (PFDoA	<b>a</b> )				١	ND			0.586		1.81
307-24	-4 P	Perfluorohexanoic acid (PFHxA)						0.	507	J		0.238		1.81
376-06-	-7 P	Perfluorotetradecanoic acid (PFTA)					١	ND			0.391		1.81	
72629-94-	-8 <b>P</b>	Perfluorotridecanoic acid (PFTrDA)					ND			0.460		1.81		
2058-94-	-8 <b>P</b>	Perfluoroundecanoic acid (PFUnA)					ND		_	0.738		1.81		
2991-50-	-6 <b>N</b>	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)					ND			0.861		1.81		
2355-31-	1-9 N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)					ND			0.847	_	1.81			
763051-92-	-9 <b>1</b> ′	1-chloroeicosaflu	ioro-3-oxaunded	cane-1-sulfoni	с ас	id (11CI-PF3	OUdS)		ND			0.190	_	1.81
756426-58-		-chlorohexadeca	fluoro-3-oxanon	e-1-sulfonic a	cid (	(9CI-PF3ONS	S)		ND			0.249	$\perp$	1.81
	ine or Sample    SS							398	J		0.065	$\perp \!\!\! \perp$	1.81	
13252-13-	6 H	exafluoropropyle	ene oxide dimer	acid (HFPO-D	A)			1	ND	1		0.409		3.62

<sup>&</sup>lt;sup>1</sup> A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL. <sup>2</sup> All qualifiers must be described under Lab Analysis Comments on page 2.



# Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 2 of 2

PWS ID#:

2187000

Lab Sample ID#:

Primary Lab: L2045492-04 Subcontracted Lab: L2045492-04

CAS#	UNREGULATED PFAS CONTAMINANTS	Result <sup>1</sup> ng/L	Result <sup>2</sup> Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L
				-		

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
<sup>13</sup> C <sub>2</sub> -PFHxA	82	
<sup>13</sup> C <sub>2</sub> -PFDA	88	
d₅-NEtFOSAA	80	
<sup>13</sup> C <sub>3</sub> -HFPO-DA	74	

Note: <sup>13</sup>C<sub>3</sub>-HFPO-DA is not required for EPA Method 537 v1.1

In addition to the S	UR above you must attach the results of the	ne ongoing QC	results as specified by the method for the	sample's extraction	n batch.
□ Laboratory and     □	alytical report with QC attached (check o	one item belov	<i>ı</i> ).		
	ociated QC criteria reported within control s (SUR), Laboratory Fortified Blank (LFB),			Reagent Blank (FR	B), Surrogate
	ociated sample and/or QC batch criteria no	ot met. See Lab	Analysis Comments below and narrative	in attached report.	
Lab Analysis Con	nments: (include sample/method paramet	ers outside of o	or affecting QC controls/limits and result q	ualifiers)	
Result Qualifier	Qualifier Description				
J	The target analyte concentration is below	v the quantitation	on limit (RL), but above the Method Detec	tion Limit.	
Other Analysis Comments:					
* MCL or proposed	MCL				
	es of law that I am the person authorized to fill o		mary Lab Director Signature:	Joseph Wi	ukons
	formation contained herein is true, accurate as extent of my knowledge.	na	Date:	11/12/2	20
month in which	hese results electronically, mail <u>TWO</u> copie ch you received this report <u>or</u> no later than tts COVID-19 state of emergency, in additi	10 days after th	e end of the reporting period, whichever	is sooner. Note that	t during the
MassDEP REVIEW	V STATUS (Initial & Date)	Review			□wQTS
☐ Accepted	Disapproved	Comments			Data Entered

											L	20 45498
(A)	CHAIN	OF CU	STODY	WGEOF	Date F	tec'd in La	ab: 10	1211	20	ALPHA	Job #: +	204594
Διρηλ		Project	Information	TO MORE DE LA	Repo	rt Inform	nation - Da	ta Delive	rables	Billing I	nformation	
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Tel: 508-898-9220 ent Information	Tel: 508-822-9300	_	ocation: Willis				equiremen	its &	Project I	nformation	Requireme	nts
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10con	of sulles	W. Grand M. C. Colon	111	Varia	☐ Yes	□ No GV	V1 Standard	squired on s (Info Red	quired for I	Metals & EPI	with Targets	)
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additional Proj	ect Information:				AN	D PAH	5 5	gets gets	DFI	111		Filtration
					1	3	RAS 13	ST A	Suly	///	///	☐ Field ☐ Lab to do
1					C 8260	D ABN	L RC	D PEST	uant	/ / /	///	Preservation
OFAS					10	C. C.	ALS.	CB	00	11	///	☐ Lab to do
PHA Lab ID	Sample ID		Collection  Date Time	Sample Sample Matrix Initials	1,000	SVOC: U ABN U	METALS: LI RCRAS L	UPH: C Ranges & Targets C R  C PCB C PEST	TH: Count Only	111		Sample Comments
ab Use Only)	- 7.		11/01/2	m De Due	1						0	.44 reg/1
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00	Λ .	NOFB	1921/200	A Va Jen				++			0	7/11/6/
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ENTLY IS		A = .			0	0	-	+++	++	+++		
ntainer Type Plastic	Preservative A= None	0-	1 RIZNO	Container Type		1						
Amber glass Vial Glass	B= HCl C= HNO <sub>3</sub> D= H <sub>2</sub> SO <sub>4</sub>	120000	0 = TRIZNO A = NON		ie 0 /	7				to/Times	17/	
Bacteria cup Cube	E= NaOH F= MeOH	Relin	quished By	Date/Time	9.	2 / Re	eceived By:	Mr. 1		10/21/20	All samples	submitted are subjects and Conditions.
Other Encore BOD Bottle	G= NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> I= Ascorbic Acid			194/10	/	1 Hay	mel	au	HITL	101100	Alpha's Term See reverse	
	J = NH <sub>4</sub> Cl K= Zn Acetate										FORM NO: 01-0	11 (rev. 12-Mar-2012)