Send Report to: Temperature Blank: 1.0 °C State of Maryland MDH - Laboratories Administration JY 9/29/20 Division of Environmental Chemistry ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue BALTIMORE, MARYLAND 21205 LABORATORY ANALYSIS REQUEST FORM Please write legibly Bottle No.: 010-0011-1801 Plant/Site Name: Foot Protection County: Tredestate Sample Source: (Batch Phone No.: 4104467472 Field Data: pH Free CI: _ Total CI: 1. Sample Type: Drinking water □ Landfill □ Source (water) □ Oil ☐ Private □ Stream ☐ Distribution (treated) □ Solid Community □ Soil/Sediment Water Treatment Plant POE □ Other ___ □ Non-Community Specify Program: Q8DWA □ NPDES □ RCRA \square CWA □ CERCLA □ Consumer Products □ Other Test Requested Field & Trip Blank Preservative Used Comment ☐ EPA Method 504.1 (EDB/DBCP) ☐ Field Blank □ Sodium thiosulfate EPA Method 508 [Aroclors (SCAN ☐ Field Blank ☐ Sodium thiosulfate only) & Toxaphene] EPA Method 515.3 (Herbicides) ☐ Field Blank □ Sodium thiosulfate □ EPA Method 525.2 (Pesticides) ☐ Field Blank ☐ HCL (6N) ☐ Sodium sulfite ☐ EPA Method 531.2 (Carbamates) ☐ Field Blank ☐ Potassium Citrate monobasic ☐ Sodium thiosulfate ☐ EPA Method 552.2 (Haloacetic acids) ☐ Field Blank ☐ Ammonium chloride ☐ EPA Method 8270 (Semi-Volatiles) ☐ Sodium thiosulfate Pesticides ☐ Aroclors EPA Method 524-2 (Volatiles) 53-1 11-1+16L TRIZMA Field Blank ☐ Trip Blank ☐ 1:1 HCL + Ascorbic acid ☐ Sodlum thiosulfate ☐ EPA Method 8260 (VOCs) TATAH NI BUTUK HIS HIN HIN AKTIM HIN HIN HIN AKTI E21000907001 E21000907002 Received: 09/29/2020 Received: 09/29/2020 TEST 0100011TP01 Organics

Remarks: 3 Samples and 2 Field Blanks received. AF 9/29/20

Lab Supervisor:

Date Reported: ____/___/___

•Phone: (443) 681-3857

Fax: (443) 681-4507



1770 Ashland Avenue, Baltimore, Maryland 21205

Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000907001 Method: EPA 537.1 - PFAS

Date Received: 09/29/2020 Date Collected: 09/28/2020 F: 1.1.1D

Field ID: 0100011TP01FB	Submitted By:	Holt		Date Analyzed:	10/09/2020
<u>Contaminant</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeicosafluoro-3-oxaundeo	cane-1-sulfonic acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic	acid (ADONA)		1.0		ND
9-chlorohexadecafluoro-3-oxano	onane-1-sulfonic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoropropylene oxide dime	er acid (HFPO-DA)		1.0		ND
N-ethyl perfluorooctanesulfonam	nidoacetic acid (N-EtFOSAA)		2.5		ND
N-methyl perfluorooctanesulfona	amidoacetic acid (N-MeFOSAA)		3.0		ND
Perfluorobutanesulfonic acid (PF	FBS)		1.0		ND
Perfluorodecanoic acid (PFDA)			1.0		ND
Perfluorododecanoic acid (PFDc	pA)		2.0		ND
Perfluoroheptanoic acid (PFHpA	A)		2.0		ND
Perfluorohexanesulfonic acid (Pl	FHxS)		1.0		ND
Perfluorohexanoic acid (PFHxA)			1.0		ND
Perfluorononanoic acid (PFNA)			2.0		ND
Perfluorooctanesulfonic acid (PF	FOS)		2.0		ND
Perfluorooctanoic acid (PFOA)			1.0		ND
Perfluorotetradecanoic acid (PF	TDA)		1.0		ND
Perfluorotridecanoic acid (PFTrE	DA)		2.0		ND
Perfluoroundecanoic acid (PFUr	nDA)		1.0		ND

Comments:

Approval date: 10/15/2020 Approved by:

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^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.



1770 Ashland Avenue, Baltimore, Maryland 21205

Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000907002 Method: EPA 537.1 - PFAS

Date Collected: Date Received: 09/29/2020 09/28/2020 Field ID:

Field ID:	Submitted By:	Holt		Date Analyzed:	10/09/2020
Contaminant			<u>RL</u>	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic	acid (9CI-PF3ON	S)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-Da	A)		1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (I	N-EtFOSAA)		2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid	(N-MeFOSAA)		3.0		ND
Perfluorobutanesulfonic acid (PFBS)			1.0		ND
Perfluorodecanoic acid (PFDA)			1.0		ND
Perfluorododecanoic acid (PFDoA)			2.0		ND
Perfluoroheptanoic acid (PFHpA)			2.0		ND
Perfluorohexanesulfonic acid (PFHxS)			1.0		ND
Perfluorohexanoic acid (PFHxA)			1.0		ND
Perfluorononanoic acid (PFNA)			2.0		ND
Perfluorooctanesulfonic acid (PFOS)			2.0		ND
Perfluorooctanoic acid (PFOA)			1.0		ND
Perfluorotetradecanoic acid (PFTDA)			1.0		ND
Perfluorotridecanoic acid (PFTrDA)			2.0		ND
Perfluoroundecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 10/15/2020

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^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to: Temperature Blank: UX 'c State of Maryland MDII - Laboratories Administration Division of Environmental Chemistry ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue BALTIMORE, MARYLAND 21205 LABORATORY ANALYSIS REQUEST FORM Please write legibly __ County: Allegan Bottle No .: 001-0019-1901 Plant/Site Name: Luke / Verso Sample Source: Phone No.: 4104467432 County **PWSID** Plant No. Field Data: pH 69 0 Free CI: Total CI: Sample Type: Drinking water □ Landfill ☐ Source (water) □ Oil ☐ Private ☐ Stream ☐ Distribution (treated) □ Solid □ Community ☐ Soil/Sediment ☐ Water Treatment Plant POE □ Other □ Non-Community Specify Program: SDWA □ NPDES □ RCRA □ CWA □ CERCLA ☐ Consumer Products □ Other Test Requested Field & Trip Blank Preservative Used Comment ☐ EPA Method 504.1 (EDB/DBCP) ☐ Field Blank ☐ Sodium thiosulfate EPA Method 508 [Aroclors (SCAN ☐ Field Blank ☐ Sodium thiosulfate only) & Toxaphene] ☐ EPA Method 515.3 (Herbicides) ☐ Field Blank ☐ Sodium thiosulfate ☐ EPA Method 525.2 (Pesticides) ☐ Field Blank ☐ HCL (6N) ☐ Sodium sulfite ☐ EPA Method 531.2 (Carbamates) ☐ Field Blank ☐ Potassium Citrate monobasic □ Sodium thiosulfate ☐ EPA Method 552.2 (Haloacetic acids) ☐ Field Blank ☐ Ammonium chloride EPA Method 8270 (Semi-Volatiles) ☐ Sodium thiosulfate ☐ Pesticides EPA Method 524.2 (Volatiles) 537. Field Blank DATHOL PTRIZMA **THMs** ☐ Trip Blank ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate ☐ EPA Method 8260 (VOCs) THE PROPERTY OF THE PROPERTY O E21000908001 E21000908002 Received: 09/30/2020 EPA 537.1 Received: 09/30/2020 EPA 537.1 0010019TP01 Organics 0010019TP01

Remarks: 3 Samples and 2 Field Blanks were received. AF 9/30/20

Lab Supervisor:

Date Reported: ____/___/___

Phone: (443) 681-3857

•Fax: (443) 681-4507



1770 Ashland Avenue, Baltimore, Maryland 21205

Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000908001 Method: EPA 537.1 - PFAS

Date Received: 09/30/2020 Date Collected: 09/30/2020

Field ID:	0010019TP01	Submitted By:	Holt		Date Analyzed:	10/09/2020
Contamina	ı <u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-	1-sulfonic acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid ((ADONA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane	-1-sulfonic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acio	(HFPO-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoad	cetic acid (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamido	acetic acid (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)		1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approval date: 10/19/2020 Approved by:

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1770 Ashland Avenue, Baltimore, Maryland 21205

Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000908002 Method: EPA 537.1 - PFAS

Date Received: 09/30/2020 Date Collected: 09/30/2020
Field ID: 0010019TP01FR Submitted Rv: Holt

Field ID:	0010019TP01FB	Submitted By:	Holt		Date Analyzed:	10/09/2020
Contaminan	<u>t</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeicos	safluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OUd	dS)	2.0		ND
4,8-dioxa-3H	I-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohexa	adecafluoro-3-oxanonane-1-sulfoni	c acid (9Cl-PF3ON	3)	2.0		ND
Hexafluoropr	ropylene oxide dimer acid (HFPO-D	DA)		1.0		ND
N-ethyl perflu	uorooctanesulfonamidoacetic acid	(N-EtFOSAA)		2.5		ND
N-methyl per	fluorooctanesulfonamidoacetic aci	d (N-MeFOSAA)		3.0		ND
Perfluorobuta	anesulfonic acid (PFBS)			1.0		ND
Perfluorodec	canoic acid (PFDA)			1.0		ND
Perfluorodod	lecanoic acid (PFDoA)			2.0		ND
Perfluorohep	otanoic acid (PFHpA)			2.0		ND
Perfluorohex	anesulfonic acid (PFHxS)			1.0		ND
Perfluorohex	anoic acid (PFHxA)			1.0		ND
Perfluoronon	nanoic acid (PFNA)			2.0		ND
Perfluoroocta	anesulfonic acid (PFOS)			2.0		ND
Perfluoroocta	anoic acid (PFOA)			1.0		ND
Perfluorotetra	adecanoic acid (PFTDA)			1.0		ND
Perfluorotride	ecanoic acid (PFTrDA)			2.0		ND
Perfluoround	lecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 10/19/2020

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^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Mary MDH - Laboratories Ad Division of Environmen ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	ministration rtal Chemistry L LABORATORY enue	FAS 9/30/20
	ABORATORY ANALYS Please write Chape	legibly	23 - 4
Bottle No.: 012-0002-TP03P1	ant/Site Name: Provid	ng Grounds	County: Harford
Location: WTP POE tap	Sample So	urce: Building #25	O APG Town or City ACRG NICCHN
Collector/ID: Looki	ingland GLZ	Phone No.;	4104192709
County System No.	20002 PWSID	O3 Plant No. 9/30/20	20 0720 milypm Time Collected
Field Data: pH 7.6	Free CI:	.54 Tota	ici: 1.55
☐ Private ☐ ☐ Community ☐ Non-Community	Stream Dis	rce (water) tribution (treated) er Treatment Plant POE	☐ Oil ☐ Solid ☐ Other ☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodlum thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids) ☐ EPA Method 8270 (Semi-Volatiles)	☐ Field Blank	☐ Ammonium chloride ☐ Sodium thiosulfate	
☐ Pesticides ☐ Aroclors		L codium imosunate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
PFAS 537.1	Field Blank DEquipment Blank	BLUE Batch	
E2100090901 Received: 09/30/2020 EPA 537.1 Organics 012-0002-TPC	5310009090	ALI THA ANA ANA ANA ANA AN	
Remarks: 3 Samples and	2 Field Blo	unks were receiv	red AF 9/30/20
Lab Supervisor: • Phone:	(443) 681-3857	Date Rep	ported://

MDH98 (02/18)



1770 Ashland Avenue, Baltimore, Maryland 21205

Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000909001 Method: EPA 537.1 - PFAS

Date Received: 09/30/2020 Date Collected: 09/30/2020 Field ID: 012-0002-TP03 Submitted By: Lookingland

riela ID.	012-0002-1703	bubililited by.	LOOKINGIANG		Date Analyzed.	10/06/2020
Contamina	ant_			<u>RL</u>	<u>MCL</u>	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-sulfonic ac	id (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-	BH-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-sulfonic a	cid (9CI-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO-DA)			1.0		ND
N-ethyl pe	rfluorooctanesulfonamidoacetic acid (N-	EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic acid (l	N-MeFOSAA)		3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorod	ecanoic acid (PFDA)			1.0		ND
Perfluorod	odecanoic acid (PFDoA)			2.0		ND
Perfluoroh	eptanoic acid (PFHpA)			2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)			1.0		ND
Perfluoroh	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)			2.0		ND
Perfluoroo	ctanoic acid (PFOA)			1.0		ND
Perfluorote	etradecanoic acid (PFTDA)			1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 10/19/2020

Date Analyzed:

10/08/2020

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1770 Ashland Avenue, Baltimore, Maryland 21205

Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000909002 Method: EPA 537.1 - PFAS

Date Received: 09/30/2020 Date Collected: 09/30/2020
Field ID: 0120002TP03FR Submitted Ry: Lookingland

Field ID:	0120002TP03FB	Submitted By:	Lookingland		Date Analyzed:	10/08/2020
Contaminar	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	safluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OUd	IS)	2.0		ND
4,8-dioxa-3H	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohexa	adecafluoro-3-oxanonane-1-sulfonic	acid (9CI-PF3ONS	5)	2.0		ND
Hexafluorop	ropylene oxide dimer acid (HFPO-D	۹)		1.0		ND
N-ethyl perfl	uorooctanesulfonamidoacetic acid (N	N-EtFOSAA)		2.5		ND
N-methyl pe	rfluorooctanesulfonamidoacetic acid	(N-MeFOSAA)		3.0		ND
Perfluorobut	anesulfonic acid (PFBS)			1.0		ND
Perfluorode	canoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	otanoic acid (PFHpA)			2.0		ND
Perfluorohe	kanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	kanoic acid (PFHxA)			1.0		ND
Perfluoronor	nanoic acid (PFNA)			2.0		ND
Perfluorooct	anesulfonic acid (PFOS)			2.0		ND
Perfluorooct	anoic acid (PFOA)			1.0		ND
Perfluorotetr	radecanoic acid (PFTDA)			1.0		ND
Perfluorotrid	ecanoic acid (PFTrDA)			2.0		ND
Perfluoround	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 10/19/2020

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^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Maryland MDH - Laboratories Admin Division of Environmental G GANICS ANALYTICAL 1 1770 Ashland Avenu BALTIMORE, MARYLA	istration Chemistry LABORATORY e	rature Blank: <u>\ </u>
	ORATORY ANALYSIS Please write legi	Ыу	
Bottle No.: 006 0003 Tfo! Plan Location:	t/Site Name: Freedon	District Filter Plant Co	unty:
Location: Plant	Sample Sour	Street Street	Town or City
Collector/ID: Shown Lowman	00765L	Phone No.:	410-294-7884
	60000 D PH	2 / 1	Time Collected
Field Data: pH	Free CI:	. B Total	ci:
Sample Type: Drinking water	Stream Distr Soil/Sediment Wate	ribution (treated)	□ Oil □ Solid □ Other □ Consumer Products
Other	El Li O Tilia Blank	Preservative Used	Comment
Test Requested	Field & Trip Blank	☐ Sodium thiosulfate	
□ EPA Method 504.1 (EDB/DBCP) □ EPA Method 508 [Aroclors (SCAN	☐ Field Blank	☐ Sodium thiosulfate	
only) & Toxaphene]			
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate ☐ HCL (6N)	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamales)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8260 (VOCs) \$ 3 7 , 1	# Field Blank Equipment Blank	Blue batch color	
E2100914001 Received: 10/01/2020 EPA 537.1 Organics 0060002TP01	E2100091	14002 01/2020 EPA 537.1 FB0060002TF	

•Phone: (443) 681-3857

• Pax: (443) 681-4507

Remarks:

Lab Supervisor: ___



1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000914001 Method: EPA 537.1 - PFAS

Date Collected: Date Received: 10/01/2020 10/01/2020 Field ID: 0060002TP01 Submitted By: Shawn Lowman

Field ID:	0060002TP01	Submitted By:	Shawn Lowman		Date Analyzed:	10/08/2020
Contaminar	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	safluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OUd	iS)	2.0		ND
4,8-dioxa-3H	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	adecafluoro-3-oxanonane-1-sulfonic	acid (9Cl-PF3ONS	S)	2.0		ND
Hexafluorop	ropylene oxide dimer acid (HFPO-D	A)		1.0		ND
N-ethyl perfl	uorooctanesulfonamidoacetic acid (I	N-EtFOSAA)		2.5		ND
N-methyl pe	rfluorooctanesulfonamidoacetic acid	(N-MeFOSAA)		3.0		ND
Perfluorobut	anesulfonic acid (PFBS)			1.0		ND
Perfluorode	canoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	otanoic acid (PFHpA)			2.0		ND
Perfluorohe	xanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	xanoic acid (PFHxA)			1.0		ND
Perfluorono	nanoic acid (PFNA)			2.0		ND
Perfluorooct	anesulfonic acid (PFOS)			2.0		ND
Perfluorooct	anoic acid (PFOA)			1.0		ND
Perfluoroteti	radecanoic acid (PFTDA)			1.0		ND
Perfluorotrid	lecanoic acid (PFTrDA)			2.0		ND
Perfluoround	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 10/19/2020

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^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.



1770 Ashland Avenue, Baltimore, Maryland 21205

Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000914002 Method: EPA 537.1 - PFAS

Date Received: 10/01/2020 Date Collected: 10/01/2020
Field ID: FR0060002TP01 Submitted By: Shawn Lowman

Field ID:	FB0060002TP01	Submitted By:	Shawn Lowman		Date Analyzed:	10/08/2020
Contamina	<u>int</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	kadecafluoro-3-oxanonane-1-sulfonic	acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO-D	A)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic acid	l (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

10/08/2020

Date Analyzed

Comments:

Approved by:

Approval date: 10/19/2020

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^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to: State of Maryland Temperature Blank: _2.0 °C MDH - Laboratories Administration Division of Environmental Chemistry KB 10/1/20 ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue BALTIMORE, MARYLAND 21205 LABORATORY ANALYSIS REQUEST FORM Please write legibly Plant/Site Name: PERRY PDINT County: CECIC PERRY FOIN Town or City Phone No.: 404467324 Sample Source: PH6AY 8841 16 County 068 Field Data: pH Free CI: Total CI:_ Sample Type: Trinking water □ Landfill □ Source (water) □ Oil □ Private \square Stream ☐ Distribution (treated) □ Solid Community □ Soil/Sediment □ Water Treatment Plant POE □ Other _ □ Non-Community Specify Program: SDWA □ NPDES □ RCRA □ CWA □ CERCLA ☐ Consumer Products □ Other Test Requested Field & Trip Blank Preservative Used Comment ☐ EPA Method 504.1 (EDB/DBCP) ☐ Field Blank ☐ Sodium thiosulfate ☐ EPA Method 508 [Aroclors (SCAN ☐ Field Blank ☐ Sodium thiosulfate only) & Toxaphenel ☐ EPA Method 515.3 (Herbicides) ☐ Field Blank ☐ Sodium thiosulfate ☐ EPA Method 525.2 (Pesticides) ☐ Field Blank ☐ HCL (6N) ☐ Sodium sulfite ☐ EPA Method **531.2** (Carbamates) ☐ Field Blank ☐ Potassium Citrate monobasic ☐ Sodium thiosulfate ☐ EPA Method 552.2 (Haloacetic acids) ☐ Field Blank ☐ Ammonium chloride EPA Method 8270 (Semi-Volatiles) ☐ Sodium thiosulfate ☐ Pesticides ☐ Aroclors EPA Method 524.2 (Volatiles) ☐ Field Blank ☐ 1:1 HCL □ VOCS ☐ Trip Blank ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate EPA Method-8288 (VOCs) 537 FIELDBLANK TRIZMA

E2100930001 Received: 10/02/2020 EPA 537.1 Organics 007-0017-TPC	E21000930002 Received: 10/02/2020 EPA 537.1 Organics FB007-0017-*	
Remarks: Received 3 Jamples	: 2 FB KB10/2/20	

Phone: (443) 681-3857

Date Reported: ____/___/

•Fax: (443) 681-4507

Lab Supervisor:



1770 Ashland Avenue, Baltimore, Maryland 21205

Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000930001 Method: EPA 537.1 - PFAS

Date Collected: Date Received: 10/02/2020 10/02/2020 Field ID: 007-0017-TP01 Submitted By: Joseph Cay

Field ID:	007-0017-TP01	Submitted By:	Joseph Gay		Date Analyzed:	10/09/2020
Contaminar	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	safluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OUc	IS)	2.0		ND
4,8-dioxa-3H	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	adecafluoro-3-oxanonane-1-sulfonic	acid (9Cl-PF3ONS	S)	2.0		ND
Hexafluorop	ropylene oxide dimer acid (HFPO-D	۹)		1.0		ND
N-ethyl perfl	uorooctanesulfonamidoacetic acid (I	N-EtFOSAA)		2.5		ND
N-methyl pe	rfluorooctanesulfonamidoacetic acid	(N-MeFOSAA)		3.0		ND
Perfluorobut	anesulfonic acid (PFBS)			1.0		ND
Perfluorode	canoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	otanoic acid (PFHpA)			2.0		ND
Perfluorohe	kanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	kanoic acid (PFHxA)			1.0		ND
Perfluorono	nanoic acid (PFNA)			2.0		ND
Perfluorooct	anesulfonic acid (PFOS)			2.0		ND
Perfluorooct	anoic acid (PFOA)			1.0		ND
Perfluoroteti	radecanoic acid (PFTDA)			1.0		ND
Perfluorotrid	ecanoic acid (PFTrDA)			2.0		ND
Perfluoround	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approval date: 10/19/2020 Approved by:

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1770 Ashland Avenue, Baltimore, Maryland 21205

Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000930002 Method: EPA 537.1 - PFAS

Date Collected: 10/02/2020 Date Received: 10/02/2020 Field ID: FB007-0017-TP01 Submitted By: Joseph Gay

Field ID:	FB007-0017-TP01	Submitted By:	Joseph Gay		Date Analyzed:	10/09/2020
Contamina	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	osafluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OU	ldS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	adecafluoro-3-oxanonane-1-sulfonio	acid (9Cl-PF3ON	S)	2.0		ND
Hexafluorop	propylene oxide dimer acid (HFPO-D	A)		1.0		ND
N-ethyl perf	luorooctanesulfonamidoacetic acid (N-EtFOSAA)		2.5		ND
N-methyl pe	erfluorooctanesulfonamidoacetic acid	d (N-MeFOSAA)		3.0		ND
Perfluorobu	tanesulfonic acid (PFBS)			1.0		ND
Perfluorode	canoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	ptanoic acid (PFHpA)			2.0		ND
Perfluorohe	xanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	xanoic acid (PFHxA)			1.0		ND
Perfluorono	nanoic acid (PFNA)			2.0		ND
Perfluorooc	tanesulfonic acid (PFOS)			2.0		ND
Perfluorooc	tanoic acid (PFOA)			1.0		ND
Perfluorotet	radecanoic acid (PFTDA)			1.0		ND
Perfluorotrio	decanoic acid (PFTrDA)			2.0		ND
Perfluoroun	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 10/19/2020

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^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of M MDH - Laboratories Division of Environ ORGANICS ANALYTI 1770 Ashland BALTIMORE, MA	Administration mental Chemistry CAL LABORATORY Avenue	remperature Blank: <u>2.©</u> °C &B10 2 ₂ 0
	LABORATORY ANALY Please wri	SIS REQUEST FORM	
Bottle No.: 007-0018-TP	0 / Plant/Site Name:	NOF PERRYVILLE	County: CEC/C
Location: POETAP	Sample S	Source:Street	Town or City
Colfector/ID: JOSEPH	SAY 884/1	Phone No.	: 4104467324
County System No.	070018 PWSID	Plant No. Date Collected	350
Field Data: pH O 6.6	Free CI:	1 0	tal CI:
Private Community Non-Community Specify Program: SDWA Other	Stream Di	urce (water) stribution (treated) ater Treatment Plant POE	□ Oil □ Solid □ Other
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	Comment
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasio	
☐ EPA Method 552.2 (Haloacetic acids) ☐ EPA Method 8270 (Semi Voletiles)	☐ Field Blank	☐ Ammonium chloride	
☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
ロ EPA Method 8266 (VOCS) 5 3 ティ	DE IELD ZLAWIC	(D) TRIZMA	
E21000930003 Received: 10/02/2020 EPA 537.1 Organics 007-0018-TPC	E21000930 Received: 10/02/ Organics		
emarks: Received 3 Samples	is z Fo Ke	5 10 z zo	
	43) 681-3857	• Fax: (443) 681-4507	orted:/



1770 Ashland Avenue, Baltimore, Maryland 21205

Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000930003 Method: EPA 537.1 - PFAS

Date Collected: 10/02/2020 Date Received: 10/02/2020 Field ID: Submitted By: 007-0018-TP01 Joseph Gay

Field ID:	007-0018-TP01	Submitted By:	Joseph Gay		Date Analyzed:	10/09/2020
Contamina	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	osafluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3l	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	adecafluoro-3-oxanonane-1-sulfonic	acid (9CI-PF3ON	S)	2.0		ND
Hexafluorop	propylene oxide dimer acid (HFPO-D	A)		1.0		ND
N-ethyl perf	luorooctanesulfonamidoacetic acid (N-EtFOSAA)		2.5		ND
N-methyl pe	erfluorooctanesulfonamidoacetic acid	(N-MeFOSAA)		3.0		ND
Perfluorobu	tanesulfonic acid (PFBS)			1.0		ND
Perfluorode	canoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	ptanoic acid (PFHpA)			2.0		ND
Perfluorohe	xanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	xanoic acid (PFHxA)			1.0		ND
Perfluorono	nanoic acid (PFNA)			2.0		ND
Perfluorooc	tanesulfonic acid (PFOS)			2.0		ND
Perfluorooc	tanoic acid (PFOA)			1.0		ND
Perfluorotet	radecanoic acid (PFTDA)			1.0		ND
Perfluorotrio	decanoic acid (PFTrDA)			2.0		ND
Perfluoroun	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approval date: 10/19/2020 Approved by:

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^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.



1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000930004 Method: EPA 537.1 - PFAS

Date Received: 10/02/2020 Date Collected: 10/02/2020

Field ID:	FB007-0018-TP01	Submitted By:	Joseph Gay		Date Analyzed:	10/09/2020
Contamina	ant .			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	cosafluoro-3-oxaundecane-1-sulfonic	acid (11CI-PF3OU	dS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-sulfoni	c acid (9CI-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO-D	DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid	(N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic aci	d (N-MeFOSAA)		3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		ND
Perfluorote	etradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 10/19/2020

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^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to: State of Maryland Temperature Blank: 2.0 °C MDH - Laboratories Administration Division of Environmental Chemistry KBIOZZZO ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue BALTIMORE, MARYLAND 21205 LABORATORY ANALYSIS REQUEST FORM Please write legibly Bottle No.: 007-0020 - Poly Plant/Site Name: PORT DEPOSIT County: CECIC Location: POETAP Sample Source: JOSEPH GAY 4104467324 Phone No.: 4104467324 06.5 Field Data: pH Free CI: Total CI:_ Sample Type: Drinking water □ Landfill ☐ Source (water) □ Oil □ Private □ Stream ☐ Distribution (treated) □ Solid Community Community □ Soil/Sediment Water Treatment Plant POE □ Other ___ □ Non-Community Specify Program: SDWA □ NPDES □ RCRA □ CERCLA □ CWA ☐ Consumer Products □ Other Test Requested Field & Trip Blank Preservative Used Comment ☐ EPA Method 504.1 (EDB/DBCP) ☐ Field Blank ☐ Sodium thiosulfate EPA Method 508 [Aroclors (SCAN ☐ Field Blank ☐ Sodium thiosulfate only) & Toxaphene] EPA Method 515.3 (Herbicides) ☐ Field Blank ☐ Sodium thiosulfate ☐ HCL (6N) ☐ EPA Method 525.2 (Pesticides) ☐ Field Blank ☐ Sodium sulfite ☐ EPA Method 531.2 (Carbamates) ☐ Field Blank ☐ Potassium Citrate monobasic ☐ Sodium thiosulfate ☐ EPA Method 552.2 (Haloacetic acids) ☐ Field Blank ☐ Ammonium chloride EPA Method 8270 (Semi-Volatiles) ☐ Sodium thiosulfate □ Pesticides □ Aroclors EPA Method 524.2 (Volatiles) ☐ Field Blank ☐ 1:1 HCL □ VOCS ☐ THMs ☐ Trip Blank ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate EPA Method 8268 (VOCs) OFIELDBLANK (V) TRIZMA THE PROPERTY OF THE PROPERTY O 1 KERKETA HAN KOOT HAVI TAHA BEKA DAHA TERSE 12KE ERKA BAHA ADILI AHU ISAK E21000930005 **E21000930006** Received: 10/02/2020 EPA 537.1 Received: 10/02/2020 EPA 537.1 Organics 007-0020-TPC Organics FB007-0020-1

E21000930006
Received: 10/02/2020 EPA 537.1
Organics 007-0020-TPC

E21000930006
Received: 10/02/2020 EPA 537.1
Organics FB007-0020-T

Remarks: Releived 3 samples & ZFD . (BIOK)

Lab Supervisor:

Date Reported: ____/___/

Phone: (443) 681-3857

•Fax: (443) 681-4507



1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000930005 Method: EPA 537.1 - PFAS

Date Received: 10/02/2020 Date Collected: 10/02/2020
Field ID: 007-0020-TP01 Submitted Ry: Joseph Gay

Field ID:	007-0020-TP01	Submitted By:	Joseph Gay		Date Analyzed:	10/09/2020
Contaminar	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	safluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OUd	IS)	2.0		ND
4,8-dioxa-3H	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohexa	adecafluoro-3-oxanonane-1-sulfonic	acid (9Cl-PF3ONS	S)	2.0		ND
Hexafluorop	ropylene oxide dimer acid (HFPO-D	A)		1.0		ND
N-ethyl perfl	uorooctanesulfonamidoacetic acid (l	N-EtFOSAA)		2.5		ND
N-methyl pe	rfluorooctanesulfonamidoacetic acid	(N-MeFOSAA)		3.0		ND
Perfluorobut	tanesulfonic acid (PFBS)			1.0		ND
Perfluorode	canoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	otanoic acid (PFHpA)			2.0		ND
Perfluorohe	xanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	xanoic acid (PFHxA)			1.0		ND
Perfluoronor	nanoic acid (PFNA)			2.0		ND
Perfluorooct	anesulfonic acid (PFOS)			2.0		ND
Perfluorooct	anoic acid (PFOA)			1.0		ND
Perfluorotetr	radecanoic acid (PFTDA)			1.0		ND
Perfluorotrid	lecanoic acid (PFTrDA)			2.0		ND
Perfluoround	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 10/19/2020

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1770 Ashland Avenue, Baltimore, Maryland 21205

Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000930006 Method: EPA 537.1 - PFAS

Date Collected: 10/02/2020 Date Received: 10/02/2020 Field ID: FB007-0020-TP01 Submitted By: Joseph Gay

Field ID:	FB007-0020-TP01	Submitted By:	Joseph Gay		Date Analyzed:	10/09/2020
Contamina	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	osafluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OU	ldS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	adecafluoro-3-oxanonane-1-sulfonio	acid (9Cl-PF3ON	S)	2.0		ND
Hexafluorop	propylene oxide dimer acid (HFPO-D	A)		1.0		ND
N-ethyl perf	luorooctanesulfonamidoacetic acid (N-EtFOSAA)		2.5		ND
N-methyl pe	erfluorooctanesulfonamidoacetic acid	d (N-MeFOSAA)		3.0		ND
Perfluorobu	tanesulfonic acid (PFBS)			1.0		ND
Perfluorode	canoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	ptanoic acid (PFHpA)			2.0		ND
Perfluorohe	xanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	xanoic acid (PFHxA)			1.0		ND
Perfluorono	nanoic acid (PFNA)			2.0		ND
Perfluorooc	tanesulfonic acid (PFOS)			2.0		ND
Perfluorooc	tanoic acid (PFOA)			1.0		ND
Perfluorotet	radecanoic acid (PFTDA)			1.0		ND
Perfluorotrio	decanoic acid (PFTrDA)			2.0		ND
Perfluoroun	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approval date: 10/19/2020 Approved by:

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^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Maryla MDH - Laboratories Adp Division of Environment DRGANICS ANALYTICA 1770 Ashland Ave	ninistration al Chemistry L LABORATORY nue	perature Blank: <u>2.0</u> °c AF 10 6 20
	BALTIMORE, MARYI BORATORY ANALYSI	Ba	itch Color Blue 10
	Please write le	egibly	10/16/
Bottle No.: 002-0017 F02 Pl	ant/Site Name: Glen Bv	rnig-Broadneck-Stever	County: AA
Location: Stevenson RD WT	Sample Sou	urce: 7975 Quarter help	d Rd, Glen Burnie
Collector/ID: Rlynch/1121	RL	Phone No.:	143-845-6115
OO2 OO17 DO		Plant No. Date Collected	Time Collected
Field Data: pH 7.7	Free CI:	.34 Tota	ol CI: 1, 34
□ Private □ ▼ Community □ □ Non-Community	Stream	rce (water) tribution (treated) er Treatment Plant POE CWA CERCLA	☐ Oil ☐ Solid ☐ Other
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
▼ EPA Method 0260 (VOCs) - \$37.1 P F A S	OField Blank	MTRIZMA Batch Color Blue	
E21000955001 Received: 10/06/2020 EPA 537.1 Organics 0020017TP02	E21009550 Received: 10/06/ Organics		
Remarks: PFAs - 3 Samples & 2	ZFB recid AF IDIL	720	
Lab Supervisor:			eported:/



1770 Ashland Avenue, Baltimore, Maryland 21205

Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000955001 Method: EPA 537.1 - PFAS

Date Collected: Date Received: 10/06/2020 10/05/2020

Field ID: 0020017TP02 Submitted By:	R Lynch	Date Analyzed:	10/17/2020
Contaminant	<u>RL</u>	<u>MCL</u>	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OL	JdS) 2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ON	S) 2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 10/27/2020

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1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000955002 Method: EPA 537.1 - PFAS

Date Collected: Date Received: 10/06/2020 10/05/2020

Field ID: FB0020017TP02 Submitted By:	R Lynch	Date Analyzed:	10/17/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3O	UdS) 2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3OI	NS) 2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approval date: 10/27/2020 Approved by:

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Send Report to: Temperature Blank: State of Maryland MDH - Laboratories Administration Division of Environmental Chemistry ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue BALTIMORE, MARYLAND 21205 LABORATORY ANALYSIS REQUEST FORM Please write legibly Plant/Site Name: Glen Burnie - Broadnick County: Bottle No.: 002-0017-TP08 Sample Source: 8075 Telegraph Rd, Sever BL Collector/ID: RLynch/1121 RL Phone No.: 443-845-6115 10 / 5 /20 20 Date Collected PWSID 1.31 Total CI:_ Field Data: pH Free CI: Sample Type: A Drinking water □ Landfill ☐ Source (water) □ Oil □ Private □ Stream ☐ Distribution (treated) □ Solid **☼**Community □ Soil/Sediment Water Treatment Plant POE □ Other.___ □ Non-Community Specify Program: SDWA □ NPDES □ RCRA □ CWA □ CERCLA □ Consumer Products □ Other Test Requested Field & Trip Blank Preservative Used Comment ☐ EPA Method 504.1 (EDB/DBCP) ☐ Field Blank ☐ Sodium thiosulfate EPA Method 508 [Aroclors (SCAN ☐ Field Blank ☐ Sodium thiosulfate only) & Toxaphene] ☐ EPA Method 515.3 (Herbicides) ☐ Field Blank ☐ Sodium thiosulfate ☐ EPA Method 525.2 (Pesticides) ☐ Field Blank ☐ HCL (6N) ☐ Sodium sulfite ☐ EPA Method 531.2 (Carbamates) ☐ Field Blank ☐ Potassium Citrate monobasic ☐ Sodium thiosulfate ☐ EPA Method 552.2 (Haloacetic acids) ☐ Field Blank ☐ Ammonium chloride EPA Method 8270 (Semi-Volatiles) ☐ Sodium thiosulfate □ Pesticides □ Aroclors EPA Method 524.2 (Volatiles) ☐ Field Blank ☐ 1:1 HCL □ VOCS ☐ Trip Blank ☐ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate MField Blank EPA Method 8260 (VOGs) 537. DTRIZMA Ratch tolor Blue E21000954001 Received: 10/06/2020 EPA 537.1 E21000954002 Received: 10/06/2020 EPA 537.1 0020017TP08 Organics FB0020017TF Organics.

Remarks: PFAs - 3 Samples & ZFB recid AFID 6 20

Lab Supervisor: ______ Date Reported: ____/___/

•Phone: (443) 681-3857

ORIGINAL - LABORATORY

•Fax: (443) 681-4507



1770 Ashland Avenue, Baltimore, Maryland 21205

Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

0020017TP08

Lab No.: E21000954001 Method: EPA 537.1 - PFAS

Date Collected: Date Received: 10/06/2020 10/05/2020 Field ID: Submitted By:

11cld 15. 002001711 00	abilitied by. Ki	zyricii	Date Analyzea.	10/17/2020	
Contaminant		<u>RL</u>	<u>MCL</u>	Result	
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic aci	d (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)		1.0		ND	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic ac	id (9CI-PF3ONS)	2.0		ND	
Hexafluoropropylene oxide dimer acid (HFPO-DA)		1.0		ND	
N-ethyl perfluorooctanesulfonamidoacetic acid (N-E	EtFOSAA)	2.5		ND	
N-methyl perfluorooctanesulfonamidoacetic acid (N	-MeFOSAA)	3.0		ND	
Perfluorobutanesulfonic acid (PFBS)		1.0		ND	
Perfluorodecanoic acid (PFDA)		1.0		ND	
Perfluorododecanoic acid (PFDoA)		2.0		ND	
Perfluoroheptanoic acid (PFHpA)		2.0		ND	
Perfluorohexanesulfonic acid (PFHxS)		1.0		ND	
Perfluorohexanoic acid (PFHxA)		1.0		ND	
Perfluorononanoic acid (PFNA)		2.0		ND	
Perfluorooctanesulfonic acid (PFOS)		2.0		ND	
Perfluorooctanoic acid (PFOA)		1.0		ND	
Perfluorotetradecanoic acid (PFTDA)		1.0		ND	
Perfluorotridecanoic acid (PFTrDA)		2.0		ND	
Perfluoroundecanoic acid (PFUnDA)		1.0		ND	

R Lynch

Comments:

Approved by:

Approval date: 10/27/2020

10/17/2020

Date Analyzed:

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Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000954002 Method: EPA 537.1 - PFAS

Date Received: 10/06/2020 Date Collected: 10/05/2020

Field ID:	FB0020017TP08	Submitted By:	R Lynch		Date Analyzed:	10/17/2020
Contamina	<u>ınt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-sulfonio	acid (9CI-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO-D	DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid	(N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic aci	d (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 10/27/2020

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Send Report to:	State of Maryl MDH - Laboratories Adı Division of Environmen ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	nperature Blank: 1.0 °C AF 10/6/20 (3	
L	ABORATORY ANALYS Please write I		
Bottle No.: 010-0005- TPUI P	lant/Site Name: Bruns	wide	County: Frederick
Location: PUZO WTP	Sample So	urce: (Batch colore R	(U e) Town or City
CollectorAD: Holf 632377	*	Phone No.:	4104467432
County System No.	1 0 0 00 5	Plant No. Date Collected	20 1130 m/pm Time Collected
Field Data: pH 7.5	Free CI: O, C	Tot	al CI: 1, 0
□ Private □ Non-Community	Stream □ Dis	rce (water) tribution (treated) for Treatment Plant POE CWA CERCLA	☐ Oil ☐ Solid ☐ Other
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	,
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasid☐ Sodium thiosulfate	C
☐ EPA Method 552.2 (Haloacetic acids) ☐ EPA Method 8270 (Semi-Volatiles)	☐ Field Blank	☐ Ammonium chloride	
☐ Pesticides ☐ Aroclors			
□ EPA Method 524.2 (Volatiles) 537. \□ VOGS □ THMs.	∰Field Blank □ Trip Blank	□ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs)		=	
E2100953001 Received: 10/06/2020 EPA 537.1 Organics 0100005TP0	E210009 Received: 1	53002 0/06/2020 EPA 537.1 FB0100005TF	
Remarks: PFAS - 3 SOMPLES & 7 Lab Supervisor:	ZFB rec'd AFIC	41)	eported:/

ORIGINAL - LABORATORY



1770 Ashland Avenue, Baltimore, Maryland 21205

Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000953001 Method: EPA 537.1 - PFAS

Date Received: 10/06/2020 Date Collected: 10/05/2020

Field ID:	0100005TP01	Submitted By:	Holt		Date Analyzed:	10/16/2020
Contamina	<u>ınt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfonio	acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-sulfoni	c acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO-l	DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid	(N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic ac	id (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		1.59
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		1.14
Perfluorohe	exanoic acid (PFHxA)			1.0		2.22
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		1.29
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 10/27/2020

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Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000953002 Method: EPA 537.1 - PFAS

Date Received: 10/06/2020 Date Collected: 10/05/2020

Field ID:	FB0100005TP01	Submitted By:	Holt		Date Analyzed:	10/16/2020
Contamina	<u>ınt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfon	c acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (ADONA	.)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-sulfor	nic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO	-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid	d (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic a	cid (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 10/27/2020

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Send Report to:

State of Maryland MDH - Laboratories Administration Division of Environmental Chemistry

ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1,0 °C AF 10 | 6 20

LABORATORY ANALYSIS REQUEST FORM

	Please write	legibly		
Bottle No.: 010-0015-TP0Z	Plant/Site Name: Fred	orld-Lingunar	re Celc	County: FREN
Location: POEO Lingarore	Cal WN Sample So	ource: Street	AS Co	lop Yellow
Collector/ID: Holt 632				4104467432
County System No.	\$00015		5 /20 7	LO 1245 am/an) Time Collected
Field Data: pH 7.3	Free CI:	,5	Total	ci: 1.6
☐ Private ☐ Community ☐ Non-Community	☐ Stream ☐ Dis	tribution (treated) ter Treatment Plant Po		□ Oil □ Solid
□ Other	VI DES DIRCRA	□ CWA □ CI	ERCLA	☐ Consumer Products
Test Requested	Fleld & Trip Blank	Preservative U	sed	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	□ Sodium thiosulfate		
EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 515.3 (Herbicides)	☐ Fleld Blank	☐ Sodium thiosulfate		
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite		
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Cltrate m☐ Sodium thlosulfate	nonobasic	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Fleld Blank	☐ Ammonium chloride		
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate		
VOCS THMS	O Field Blank	☐ 1:1 HCL ☐ T:1 HCL + Ascorbic ☐ Sodium thiosulfate	acid	
EPA Method 9290 (VOCs) 537.1	VFIELD Blank	TRIZMA		
E21000950001 Received: 10/06/2020 EPA 524.2 Trace Organics 0100016TP02	E2100095000 Received: 10/06/20 Trace Organics	MMM/MMMM D20 EPA 524.2 FB0100015TF	E2 Red	1100950003 1000950003 101009 EPA 524.2 10106/2020 EPA 524.2 10100015TF
E21000952001 Received: 10/06/2020 EPA 537.1 Organics 0100015TP02	002 2020 EPA 537.1 FB0100016TF			
Remarks: PFAs - 3 Samples 8.	2 FB received AF	10/10/20		
Lab Supervisor:	(443) 681-3857			rted://

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1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000952001 Method: EPA 537.1 - PFAS

Date Received: 10/06/2020 Date Collected: 10/05/2020

Field ID:	0100015TP02	Submitted By:	Holt		Date Analyzed:	10/16/2020
Contamina	<u>ınt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-sulfoni	c acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO-l	DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid	(N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic aci	d (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		1.39
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		1.23
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		1.89
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 10/27/2020

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1770 Ashland Avenue, Baltimore, Maryland 21205

Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000952002 Method: EPA 537.1 - PFAS

Date Received: 10/06/2020 Date Collected: 10/05/2020

Field ID:	FB0100015TP02	Submitted By:	Holt		Date Analyzed:	10/16/2020
Contamina	ant			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	cosafluoro-3-oxaundecane-1-sulfor	nic acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (ADON	۹)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-sulfo	nic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPC	D-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic ac	d (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic a	acid (N-MeFOSAA)		3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		ND
Perfluorote	etradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 10/27/2020

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^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Mary MDH - Laboratories A Division of Environme ORGANICS ANALYTICA 1770 Ashland A BALTIMORE, MARY	AL LABORATORY	remperature Blank: 2.0 °C AF 10 v 20
	ABORATORY ANALYS	legibly	
Bottle No.: 022-0004-780/ P	lant/Site Name:	ARK SALISBURY	County: Wilomico SALISBURY Town or City
Location: Well house	Sample So	ource: E Main ST	SALSBURY
Collector/ID: Beatty	^		: 4104463952
County System No.	220004 PWSID	Plant No. Date Collected	0000 B30 am/pm
Field Data; pH 7.2	Free CI:	0.73 т	otal CI: 0, 73
□ Private □	Stream	irce (water) stribution (treated) fer Treatment Plant POE CI CWA CERCLA	☐ Oil ☐ Solid ☐ Other
Test Requested	Field & Trip Blank	, Preservative Used	Comment
EPA Method 504.1 (EDB/DBCP)	Field Blank	Sodium thiosulfate	
C) EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 515.3 (Herbicides)	☐ Field Blank	Sodium thiosulfate	
EPA Method 525.2 (Pesticides)	☐ Field Blank	THEL (6N) Co Sodium sullite	
EPA Method 531.2 (Carbamates)	☐ Field Blank	Forassium Citrate monoba	sic
☐ EPA Method 552.2 (Haloacetic acids) ☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors.	☐ Field Blank	☐ Ammonium chloride ☐ Sodium thiosulfate	
EPA Method 524.2 (Volatiles) VOCS THMs	Effeld Blank	☐ 1 HCL. 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
PFAS =	OField Blank. DEquipment Blank	Blue	
1000946001 E2100	0946002 : 10/06/2020 EPA 524.2 ganics FB022-0004-1	E21000946003 Received: 10/06/2020 EPA 52: Trace Organics TB022-00	E21000948001 Received: 10/06/2020 EPA 504
E21000948002 Received: 10/06/2020 EPA 504.1 Pesticides FB022-0004-1	E210009480 Received 10/06/	003 2020 EPA 515.3 Re	21000948004 celved: 10/06/2020 EPA 525.2 sticides 022-0004-TPC
E21000948005 Received: 10/06/2020 EPA 531.2 Pesticides 022-0004-TP(E210094900 Received: 10/06/20 Organics	01 20 EPA 537-1 E	E21000949002 eceived: 10/06/2020 EPA 537.1 rganics FB0220004TF
emarks: PFAs -3 samples & 2 F	B received AF 10/6	120	
nb Supervisor:			Reported://

Fax: (443) 681-4507



1770 Ashland Avenue, Baltimore, Maryland 21205

Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000949001 Method: EPA 537.1 - PFAS

Date Received: 10/06/2020 Date Collected: 10/05/2020

Field ID:	0220004TP01	Submitted By:	Beatty		Date Analyzed:	10/16/2020
Contamina	<u>ınt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfonic	acid (11CI-PF3OU	dS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-sulfoni	c acid (9CI-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO-[DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid	(N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic aci	d (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		5.87
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		2.72
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		3.11
Perfluorohe	exanoic acid (PFHxA)			1.0		4.38
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		7.19
Perfluorood	ctanoic acid (PFOA)			1.0		7.53
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 10/27/2020

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1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000949002 Method: EPA 537.1 - PFAS

Date Received: 10/06/2020 Date Collected: 10/05/2020

Field ID:	FB0220004TP01	Submitted By:	Beatty		Date Analyzed:	10/16/2020
Contamina	<u>ınt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfonio	acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-sulfoni	c acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO-	DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid	(N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic ac	id (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 10/27/2020

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State of Maryland MDH - Laboratories Administration

	 	-	

	LABORATO	DRY ANALY	SIS REQU	EST FORM
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Send Kebou to:	State of Maryl MDH – Laboratories Adr Division of Environment ORGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARYI	ninstration al Chemistry L LABORATORY inue	Tempe	erature Blank:	
L.A	ABORATORY ANALYSI		Λ		10/18/20
Bottle No.: 022-004-7702 Pl	ant/Site Name: Pale	o Salisb	1	ounty: Wicomico	(3)
Ν .	Sample Sou	Street	1611	Town or City	
Collector/ID: Beatty O	176WB	Pho	ne No.:	410 446 3952	
County System No.	220004 PWSID	Plant No Date (6 /202 Collected	∑ <u>gur/µm</u> Time Collected	
Fleld Data: pH 7.35	Free C1:	0.81	Total	CI: 0.81	
CI Private (I	Stream Dis	rce (water) tribution (treated)		'□ Oil □ Solid	
☐ Community ☐ Non-Community	Soil/Sediment	er Treatment Plant PC	ÞΕ	Other	
Specify Program: DSDWA D N	PDES CIRCRA	п CWA п СЕ	CRCLA	☐ Consumer Products	
Test Requested	Field & Trip Blank	Preservative Us	ed	Comment	
EPA Method 504.1 (EDB/DBCP)	☑ Field Blank	Sodlum thiosulfate			<i>i</i>
EPA Method 508 (Aroclors (SCAN only) & Toxaphene)	☐ Field Blank	☐ Sodium thiosulfate			- 46.9
EPA Melhod 515.3 (Herbicides)	☐ Field Blank	Sodium thiosulfate		TO STATE OF THE ST	
EPA Method 525.2 (Pesticides)	☐ Fiold Blank	DECL (6N)			
EPA Method 531.2 (Carbamates)	☐ Field Blank	D Potassium Citrate m	nonobasic		
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride		***************************************	-
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thlosulfate			
☐ EPA Method 524.2 (Volailles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic ☐ Sodium thiosulfate	acid		
D EPA Method 8260 (VOCs) 537, 1 PF-AS	DEquipment Blook	DTrizma Blue			
E2100973001 Received: 10/07/2020 EPA 504.1 Pesticides 0220004TP02	E21000973 Received: 10/07/ Pesticides		E2 Red	21000973003 celved: 10/07/2020 EPA 515.3 sticides 0220004TP02	
E21000973004 Received: 10/07/2020 EPA 525.2 Pesticides 0220004TP02	E210009731 Received: 10/07/ Pesticides	005	E2 Re	2100973006 celved: 10/07/2020 EPA 537.1 ganics 0220004TP02	
E21000973007 Received: 10/07/2020 EPA 537.1 Organics FB0220004TF				if	
Remarks:	SSIV — III (III SAID — SAID SAID SAID SAID				
Lab Supervisor:			Date Repo	orted: / /	

Phone: (443) 681-3857

•Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED



State of Maryland Department of Health Laboratories Administration Division of Environmental Sciences ORGANICS ANALYTICAL LABORATORY

1770 Ashland Avenue, Baltimore, Maryland 21205

Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000973006 Method: EPA 537.1 - PFAS

Date Collected: Date Received: 10/07/2020 10/06/2020

Field ID:	0220004TP02	Submitted By:	Beatty		Date Analyzed:	10/17/2020
Contamina	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfonio	acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	kadecafluoro-3-oxanonane-1-sulfoni	c acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO-	DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid	(N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic ac	id (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		3.04
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		2.25
Perfluorood	etanoic acid (PFOA)			1.0		1.12
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 10/27/2020

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Telephone: (443) 681 -3857 Fax: (443) 681-4507 Page 1 of 2 S:\EnviroFinal-Organics-PFAS.rp

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Field ID:

State of Maryland Department of Health Laboratories Administration Division of Environmental Sciences ORGANICS ANALYTICAL LABORATORY

1770 Ashland Avenue, Baltimore, Maryland 21205

Robert Myers, Ph.D., Director

Certificate of Analysis

Beatty

Submitted By:

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

FB0220004TP02

Lab No.: E21000973007 Method: EPA 537.1 - PFAS

Date Received: 10/07/2020 Date Collected: 10/06/2020

Tield ID. TD0220004TT02 Jubilii	ited by. Deatty		Date Analyzea.	10/17/2020
Contaminant	<u>!</u>	<u>RL</u>	<u>MCL</u>	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11	CI-PF3OUdS) 2	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	•	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9	CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	•	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFO	SAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-Me	FOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	•	1.0		ND
Perfluorodecanoic acid (PFDA)	•	1.0		ND
Perfluorododecanoic acid (PFDoA)	2	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	•	1.0		ND
Perfluorohexanoic acid (PFHxA)	•	1.0		ND
Perfluorononanoic acid (PFNA)	2	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2	2.0		ND
Perfluorooctanoic acid (PFOA)	•	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	•	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	•	1.0		ND

Comments:

Approved by:

Approval date: 10/27/2020

10/17/2020

Date Analyzed:

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^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

		venue YLAND 21205	
	LABORATORY ANALYS Please write	legibly	
Bottle No.: 015 - 0003 -T	Plant/Site Name: (17)	OF ROCKYILL	County: MONT
			Town or City
Collector/ID: JOSEPH (DAY 884/ J	G-Phone No.:	4104467324
County System No.	150003 PWSID	Plani No. Date Collected	30 7-15 milen Time Collected
Field Data: pH 063	Free CI:	/, 7- Tota	1CI: 7,2
☐ Private ☐ Community ☐ Non-Community	□ Stream □ Dis	trce (water) stribution (treated) ter Treatment Plant POE	☐ Oil ☐ Solid ☐ Other
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
□ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N)	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acid) ☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
□ EPA Method 8260 (V OCs) 537./	FIELDBLANK	TRIS BASE TRIS HEL	
E2100978001 Received: 10/07/2020 EPA 537. Organics 0150003TPC	E2100097 Received: 100	LUM TROTTO TROLLING BOW ON AN	
emarks:			
ab Supervisor:	e: (443) 681-3857	Date Rep	ported:/

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED



State of Maryland Department of Health Laboratories Administration Division of Environmental Sciences ORGANICS ANALYTICAL LABORATORY

1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000978001 Method: EPA 537.1 - PFAS

Date Collected: 10/07/2020 Date Received: 10/07/2020 Field ID: Submitted By: 0150003TP01 Joseph Gay

Field ID:	0150003TP01	Submitted By:	Joseph Gay		Date Analyzed:	10/21/2020
Contamina	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	osafluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3l	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	adecafluoro-3-oxanonane-1-sulfonic	acid (9CI-PF3ON	S)	2.0		ND
Hexafluorop	propylene oxide dimer acid (HFPO-D	A)		1.0		ND
N-ethyl perf	luorooctanesulfonamidoacetic acid (N-EtFOSAA)		2.5		ND
N-methyl pe	erfluorooctanesulfonamidoacetic acid	(N-MeFOSAA)		3.0		ND
Perfluorobu	tanesulfonic acid (PFBS)			1.0		2.33
Perfluorode	canoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	ptanoic acid (PFHpA)			2.0		ND
Perfluorohe	xanesulfonic acid (PFHxS)			1.0		1.74
Perfluorohe	xanoic acid (PFHxA)			1.0		3.65
Perfluorono	nanoic acid (PFNA)			2.0		ND
Perfluorooc	tanesulfonic acid (PFOS)			2.0		ND
Perfluorooc	tanoic acid (PFOA)			1.0		2.35
Perfluorotet	radecanoic acid (PFTDA)			1.0		ND
Perfluorotrio	decanoic acid (PFTrDA)			2.0		ND
Perfluoroun	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 10/27/2020

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Telephone: (443) 681 -3857 Fax: (443) 681-4507 Page 1 of 2 S:\EnviroFinal-Organics-PFAS.rp

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State of Maryland Department of Health Laboratories Administration Division of Environmental Sciences ORGANICS ANALYTICAL LABORATORY

1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21000978002 Method: EPA 537.1 - PFAS

Date Received: 10/07/2020 Date Collected: 10/07/2020

Field ID: FB0150003TP01 Submitted By: Joseph Gay Date Analyzed:

Contaminant	<u>RL</u>	<u>MCL</u>	<u>Result</u>
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		Rejected
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		Rejected
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		Rejected
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		Rejected
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		Rejected
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		Rejected
Perfluorobutanesulfonic acid (PFBS)	1.0		Rejected
Perfluorodecanoic acid (PFDA)	1.0		Rejected
Perfluorododecanoic acid (PFDoA)	2.0		Rejected
Perfluoroheptanoic acid (PFHpA)	2.0		Rejected
Perfluorohexanesulfonic acid (PFHxS)	1.0		Rejected
Perfluorohexanoic acid (PFHxA)	1.0		Rejected
Perfluorononanoic acid (PFNA)	2.0		Rejected
Perfluorooctanesulfonic acid (PFOS)	2.0		Rejected
Perfluorooctanoic acid (PFOA)	1.0		Rejected
Perfluorotetradecanoic acid (PFTDA)	1.0		Rejected
Perfluorotridecanoic acid (PFTrDA)	2.0		Rejected
Perfluoroundecanoic acid (PFUnDA)	1.0		Rejected

Comments:

Approved by:

Approval date: 10/27/2020

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Telephone: (443) 681 - 3857 Fax: (443) 681 - 4507 Page 2 of 2 S:\EnviroFinal-Organics-PFAS.rp

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of M MDH - Laboratories Division of Environ ORGANICS ANALYTI 1770 Ashland BALTIMORE, MA	Administration nental Chemistry CAL LABORATORY Avenue	Temperature Blank: 310 °C
	LABORATORY ANALY Please wri	/SIS REQUEST FORM	(4)
Bottle No.: 00 > - 001/TP	035 Plant/Site Name: 70 U	NOF ELKTON	County: Office
Location: WELLS	Sample S	Source:	ELKI
Collector ID: JOSEPH G		Phone No.	: 41044 673761
County System No.	0 70 01/1 PWSID	Plant No. Date Collected	020 81000
Field Data: pH 770	Free CI:		otal CI:/, 4
□ Private □ Community □ Non-Community	Stream Di	urce (water) stribution (treated) ater Treatment Plant POE CWA CERCLA	□ Oil □ Solid □ Other
Test Requested	Field & Trip Blank	Preservative Used	T
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	Comment
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
■ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasid☐ Sodium thiosulfate	С
☐ EPA Method 552.2 (Haloacetic acids) ☐ EPA Method 8270 (Semi-Volatiles)	☐ Field Blank	☐ Ammonium chloride	
Pesticides		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
□ EPA Method 82<u>60 (VOOs</u>) > 3구./	FIELDB. ANK	TRIZINA	
E21001039001 Received: 10/15/2020 EPA 537.1 Organics 007-0011TP035	E21001039002 Received: 10/15/2020 Organics FB	EPA 537.1 10070011TP03	
Remarks: Lab Supervisor: Phone: (4		Date Rep	orted:/



Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001039001

Method: EPA 537.1 - PFAS

Date Received:

10/15/2020

Date Collected: 10/15/2020

Field ID: 007-0011TP035

Submitted By: Gay

Date Analyzed: 10/21/2020

rield ID: 007	-OUTTPOSS Submitted by: Gay		Date Anar	yzea: 10/21/2020	
<u>Contaminant</u>		<u>RL</u>	MCL	Result	
1-chloroeicosafl	luoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-3H-pe	erfluorononanoic acid (ADONA)	1.0		ND	
9-chlorohexade	cafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluoroprop	ylene oxide dimer acid (HFPO-DA)	1.0		ND	
N-ethyl perfluore	ooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl perfluc	orooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorobutane	esulfonic acid (PFBS)	1.0		ND	
Perfluorodecand	pic acid (PFDA)	1.0		ND	
Perfluorododeca	anoic acid (PFDoA)	2.0		ND	
Perfluoroheptan	oic acid (PFHpA)	2.0		ND	
Perfluorohexane	esulfonic acid (PFHxS)	1.0		ND	
Perfluorohexand	pic acid (PFHxA)	1.0		1.65	
Perfluorononand	oic acid (PFNA)	2.0		ND	
Perfluorooctane	sulfonic acid (PFOS)	2.0		ND	
Perfluorooctano	ic acid (PFOA)	1.0		2.72	
Perfluorotetrade	ecanoic acid (PFTDA)	1.0		ND	
Perfluorotrideca	noic acid (PFTrDA)	2.0		ND	
Perfluoroundeca	anoic acid (PFUnDA)	1.0		ND	

Comments:

Approved by:

Approval date: 11/05/2020

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Page 1 of 10

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.



Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001039002

Method: EPA 537.1 - PFAS

Date Received:

10/15/2020

Date Collected: 10/15/2020

Field ID: FB0070011TP035 Submitted By: Gay Date Analyzed: 10/29/2020

PB00700111P035 Submitted By:	Gay	Date Analyz	ea: 10/29/2020	
<u>ant</u>	RL	MCL	Result	
cosafluoro-3-oxaundecane-1-sulfonic acid (11CI-P	PF3OUdS) 2.0		ND	
3H-perfluorononanoic acid (ADONA)	1.0		ND	
xadecafluoro-3-oxanonane-1-sulfonic acid (9CI-P	F3ONS) 2.0		ND	
ppropylene oxide dimer acid (HFPO-DA)	1.0		ND	
rfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5		ND	
perfluorooctanesulfonamidoacetic acid (N-MeFOS	AA) 3.0		ND	
utanesulfonic acid (PFBS)	1.0		ND	
ecanoic acid (PFDA)	1.0		ND	
odecanoic acid (PFDoA)	2.0		ND	
eptanoic acid (PFHpA)	2.0		ND	
exanesulfonic acid (PFHxS)	1.0		ND	
exanoic acid (PFHxA)	1.0		ND	
onanoic acid (PFNA)	2.0		ND	
ctanesulfonic acid (PFOS)	2.0		ND	
ctanoic acid (PFOA)	1.0		ND	
etradecanoic acid (PFTDA)	1.0		ND	
idecanoic acid (PFTrDA)	2.0		ND	
ndecanoic acid (PFUnDA)	1.0		ND	
	3H-perfluorononanoic acid (ADONA) exadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-Popropylene oxide dimer acid (HFPO-DA) erfluorooctanesulfonamidoacetic acid (N-EtFOSAA	cosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 3H-perfluorononanoic acid (ADONA) 2.0 23H-perfluorononanoic acid (ADONA) 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.	cosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 3H-perfluorononanoic acid (ADONA) 3H-perfluorononanoic acid (HFPO-DA) 3H-perfluoronoctanesulfonamidoacetic acid (N-EtFOSAA) 3H-perfluoronoctanesulfonamidoacetic acid (N-EtFOSAA) 3H-perfluoronoctanesulfonamidoacetic acid (N-EtFOSAA) 3H-perfluoronoctanesulfonamidoacetic acid (N-MeFOSAA) 3H-perfluoronoctanesulfonamidoacetic acid (N-MeFOSAA) 3H-perfluoronoctanesulfonamidoacetic acid (N-EtFOSAA) 3H-perfluoronoctanesulfonamidoacetic acid (N-EtFOSAAA) 3H-perfluoronoctanesulfonamidoacetic acid (N-EtFOSAAA) 3H-perfluoronoctanesulfonamidoacetic acid (N-EtFOSAAA) 3H-perfluoronoctanesulfonamidoacetic acid (N-EtFOSAAA) 3H-perfluoronoctanesulfonamidoacetic acid (N-EtFOSAAAA) 3H-perfluoronoctanesulfonamidoacetic acid (N-EtFOSAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Annata Result Cossafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) 2.0 ND 3H-perfluorononanoic acid (ADONA) 1.0 ND Exadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) 2.0 ND Exadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) 2.5 ND Example Proposition acid (PFOS) 1.0 ND Example Proposition acid (PFBS) 1.0 ND Example Proposition acid (PFDA) 1.0 ND Example Proposition acid (PFNA) 1.0 ND Example Proposition acid (PFNA) 2.0 ND Example Proposition acid (PFOS) 2.0 ND Example Proposition acid (PFOS) 1.0 ND Example Proposition acid (PFOS) 1.0

Comments:

Approved by: Sacia Muneca

Approval date: 11/05/2020

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Page 2 of 10

Temperature Blank: 3.0 °C State of Maryland Send Report to: MDH - Laboratories Administration Division of Environmental Chemistry ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue BALTIMORE, MARYLAND 21205 LABORATORY ANALYSIS REQUEST FORM Please write legibly Bottle No.: 007-0011-TPO31R TOWN OF ELKTON County: CEC Sample Source: Location: WELLIR Phone No.: 409467324 Collector/ID: 205EPHGAY 8841 10 P 03 /R 1/15/20 20 County Total CI:_ Field Data: pH 07.0 Free CI: __ □ Oil ☐ Source (water) □ Landfill Sample Type: Drinking water □ Solid ____ □ Distribution (treated) □ Stream □ Private □ Other _____ Water Treatment Plant POE ☐ Soil/Sediment Community □ Non-Community □ Consumer Products □ CERCLA □ CWA □ RCRA Specify Program: SDWA □ NPDES □ Other Comment Preservative Used Field & Trip Blank Test Requested ☐ Sodium thiosulfate ☐ Field Blank ☐ EPA Method 504.1 (EDB/DBCP) ☐ Sodium thiosulfate ☐ Field Blank EPA Method 508 [Aroclors (SCAN only) & Toxaphene) ☐ Sodium thiosulfate ☐ Field Blank EPA Method 515.3 (Herbicides) ☐ HCL (6N) EPA Method 525.2 (Pesticides) ☐ Field Blank ☐ Sodium sulfite □ Potassium Citrate monobasic ☐ Field Blank ☐ EPA Method 531.2 (Carbamates) ☐ Sodium thiosulfate ☐ Ammonium chloride ☐ Field Blank □ EPA Method 552.2 (Haloacetic acids) ☐ Sodium thiosulfate ☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors ☐ 1:1 HCL ☐ Field Blank EPA Method 524.2 (Volatiles) ☐ 1:1 HCL + Ascorbic acid □ Trip Blank ☐ THMs □ VOCS □ Sodium thiosulfate TRIZMA ☐ EPA Method 8266 (VOCs) FIELD BLANK 5371 TADAN BATAN DAN BATAN TO THE REPORT OF THE PROPERTY E21001039004 E21001039003 Received: 10/15/2020 EPA 8260 Received: 10/15/2020 EPA 537.1 FB0070011TP03 0070011TP031R Organics Organics

Remarks: FB not feeted as FS is ND for all Sm 10/26/20

Phone: (443) 681-3857

•Fax: (443) 681-4507

Lab Supervisor:



Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001039003

Method: EPA 537.1 - PFAS

Date Received:

10/15/2020

Date Collected: 10/15/2020

Field ID:	0070011TP031R	Submitted By: Gay		Date Analyze	d: 10/21/2020
Contamin	ant		RL	MCL	Result
1-chloroeid	cosafluoro-3-oxaundec	ane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-	3H-perfluorononanoic a	acid (ADONA)	1.0		ND
9-chlorohe	xadecafluoro-3-oxanor	nane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluord	propylene oxide dimer	acid (HFPO-DA)	1.0		ND
N-ethyl per	rfluorooctanesulfonami	doacetic acid (N-EtFOSAA)	2.5		ND
N-methyl p	perfluorooctanesulfonar	midoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorob	utanesulfonic acid (PFI	BS)	1.0		ND
Perfluorod	ecanoic acid (PFDA)		1.0		ND
Perfluorod	odecanoic acid (PFDo <i>l</i>	A)	2.0		ND
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND
Perfluoroh	exanesulfonic acid (PF	HxS)	1.0		ND
Perfluoroh	exanoic acid (PFHxA)		1.0		ND
Perfluoron	onanoic acid (PFNA)		2.0		ND
Perfluoroo	ctanesulfonic acid (PF0	OS)	2.0		ND
Perfluoroo	ctanoic acid (PFOA)		1.0		ND
Perfluorote	tradecanoic acid (PFT	DA)	1.0		ND
Perfluorotr	idecanoic acid (PFTrD/	A)	2.0		ND
Perfluorou	ndecanoic acid (PFUnI	DA)	1.0		ND

Comments:

Approved by:

Approval date: 11/05/2020

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001039004

Method: EPA 537.1 - PFAS

Date Received: 10,

Field ID:

red: 10/15/2020 FB0070011TP031F Date Collected: 10/15/2020

Submitted Bv: Gav

Date Analyzed:

Tield ID. TB00700111F0311 Submitted By: Gay		Date Anal	yzeu:	
<u>Contaminant</u>	RL	MCL	Result	
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		Rejected	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		Rejected	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		Rejected	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		Rejected	
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		Rejected	
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		Rejected	
Perfluorobutanesulfonic acid (PFBS)	1.0		Rejected	
Perfluorodecanoic acid (PFDA)	1.0		Rejected	
Perfluorododecanoic acid (PFDoA)	2.0		Rejected	
Perfluoroheptanoic acid (PFHpA)	2.0		Rejected	
Perfluorohexanesulfonic acid (PFHxS)	1.0		Rejected	
Perfluorohexanoic acid (PFHxA)	1.0		Rejected	
Perfluorononanoic acid (PFNA)	2.0		Rejected	
Perfluorooctanesulfonic acid (PFOS)	2.0		Rejected	
Perfluorooctanoic acid (PFOA)	1.0		Rejected	
Perfluorotetradecanoic acid (PFTDA)	1.0		Rejected	
Perfluorotridecanoic acid (PFTrDA)	2.0		Rejected	
Perfluoroundecanoic acid (PFUnDA)	1.0		Rejected	

Comments: FB not tested as FS was ND &m 11/5/20

Approved by:

Sadia Muneca

Approval date: 11/05/2020

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Send Report to: State of Maryland Temperature Blank; 3:0 MDH - Laboratories Administration Division of Environmental Chemistry ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue BALTIMORE, MARYLAND 21205 LABORATORY ANALYSIS REQUEST FORM Please write legibly Bottle No.: 007-0011-1803212 Plant/Site Name: Town de FLICTON County: CECIL Location: WECCZA Sample Source: Collector/ID: 105EPH GAY 8841 16 Phone No.: 4104467324 County 070 Field Data: pH 0,8 Free CI: Total CI:__ Sample Type: ☐ Drinking water □ Landfill ☐ Source (water) □ Oil □ Private \square Stream ☐ Distribution (treated) □ Solid **Community** ☐ Soil/Sediment ☐ Water Treatment Plant POE □ Other ___ □ Non-Community Specify Program: SDWA □ NPDES □ RCRA \square CWA □ CERCLA □ Consumer Products □ Other **Test Requested** Field & Trip Blank Preservative Used Comment ☐ EPA Method 504.1 (EDB/DBCP) ☐ Field Blank ☐ Sodium thiosulfate ☐ EPA Method 508 [Aroclors (SCAN ☐ Field Blank ☐ Sodium thiosulfate only) & Toxaphenel ☐ EPA Method 515.3 (Herbicides) ☐ Field Blank □ Sodium thiosulfate ☐ EPA Method 525.2 (Pesticides) ☐ Field Blank □ HCL (6N) ☐ Sodium sulfite ☐ EPA Method 531.2 (Carbamates) ☐ Field Blank ☐ Potassium Citrate monobasic ☐ Sodium thiosulfate ☐ EPA Method **552.2** (Haloacetic acids) ☐ Field Blank ☐ Ammonium chloride ☐ EPA Method 8270 (Semi-Volatiles) ☐ Sodium thiosulfate □ Pesticides ☐ Aroclors EPA Method 524.2 (Volatiles) ☐ Field Blank ☐ 1:1 HCL □ VOCS ☐ Trip Blank ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate EPA Method.8260 (VOGs) TR/ZMA FIELD BLANK LANDAN SON SON DE LINGTER SON DOLL FOR THE THE DELIVER OF THE WE THAT HE WILLIAM THE WAY THAT HE THE THE TWENT THE WAY. E21001039006 E21001039005 Received: 10/15/2020 EPA 537.1 Received: 10/15/2020 EPA 537.1 0070011TP032R Organics Organics FB0070011TP03.

E21001039005
Received: 10/15/2020 EPA 537.1
Organics 0070011TP032R

E21001039006
Received: 10/15/2020 EPA 537.1
Organics FB0070011TP03.

Remarks:

Lab Supervisor:

FB not texted as PS is ND

Date Reported: ____/___

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•Fax: (443) 681-4507

Sna 10/20)



Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001039005

Method: EPA 537.1 - PFAS

Date Received:

10/15/2020

Date Collected: 10/15/2020

Field ID: 0070011TP032R Submitted By: Gay	,	Date Analyze	ed: 10/21/2020	
Contaminant	<u>RL</u>	MCL	Result	
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND	
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorobutanesulfonic acid (PFBS)	1.0		ND	
Perfluorodecanoic acid (PFDA)	1.0		ND	
Perfluorododecanoic acid (PFDoA)	2.0		ND	
Perfluoroheptanoic acid (PFHpA)	2.0		ND	
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND	
Perfluorohexanoic acid (PFHxA)	1.0		ND	
Perfluorononanoic acid (PFNA)	2.0		ND	
Perfluorooctanesulfonic acid (PFOS)	2.0		ND	
Perfluorooctanoic acid (PFOA)	1.0		ND	
Perfluorotetradecanoic acid (PFTDA)	1.0		ND	
Perfluorotridecanoic acid (PFTrDA)	2.0		ND	
Perfluoroundecanoic acid (PFUnDA)	1.0		ND	

Comments:

Approved by:

Approval date: 11/05/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001039006

Method: EPA 537.1 - PFAS

Date Received:

10/15/2020

Date Collected: 10/15/2020

Field ID: FB007001

FB0070011TP032l

Submitted By: Gay

Date Analyzed:

Tield 15. Too 7 contros 21 Submitted by: Gay		Dute Anal	yzcu.
<u>Contaminant</u>	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		Rejected
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		Rejected
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		Rejected
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		Rejected
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		Rejected
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		Rejected
Perfluorobutanesulfonic acid (PFBS)	1.0		Rejected
Perfluorodecanoic acid (PFDA)	1.0		Rejected
Perfluorododecanoic acid (PFDoA)	2.0		Rejected
Perfluoroheptanoic acid (PFHpA)	2.0		Rejected
Perfluorohexanesulfonic acid (PFHxS)	1.0		Rejected
Perfluorohexanoic acid (PFHxA)	1.0		Rejected
Perfluorononanoic acid (PFNA)	2.0		Rejected
Perfluorooctanesulfonic acid (PFOS)	2.0		Rejected
Perfluorooctanoic acid (PFOA)	1.0		Rejected
Perfluorotetradecanoic acid (PFTDA)	1.0		Rejected
Perfluorotridecanoic acid (PFTrDA)	2.0		Rejected
Perfluoroundecanoic acid (PFUnDA)	1.0		Rejected

Comments: PB not tested as FS was non-detect / Sm 11/5/20

Approved by:

Sadia Muneen

Approval date: 11/05/2020

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Send Report to:

State of Maryland

MDII - Laboratories Administration
Division of Environmental Chemistry

ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue

BALTIMORE, MARYLAND 21205

Temperature Blank: 3.0 °C

LA	BORATORY ANALYSI Please write le		
Bottle No.: 007-0011-7701	ant/Site Name: 70 WA	OF ELICION (County: CEC/C
Location: BIGELK	Sample Sou	Irce:Street	Town or City CKTON
Collector/ID: 105EPH GAY	884116	Phone No.:	4104467324
		Plant No. Lo / /5+20->	
Field Data: pH O Co. 8	Free CI:	1,6 Total	CI: 1,7
☐ Private ☐ Community ☐ Non-Community	Stream Dist Soil/Sediment Wat	rce (water) ribution (treated) er Treatment Plant POE	□ Other
Specify Program: DSDWA D N	PDES RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclor's (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
□ EPA Method 8269 (VOCs)	FIELD BLACK	TRIS BASE TRIS HEL	
E21001039007 Received: 10/15/2020 EPA 537.1 Organics 0070011TP01	E21001039008 Received: 10/15/2020 Organics	ITER THIN FRANT SER WITE	
Remarks: Lab Supervisor:		D.4. D.	norted: / /

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001039007

Method: EPA 537.1 - PFAS

Date Received:

l: 10/15/2020

Date Collected: 10/15/2020

Field ID: 0070011TP01 Submitted By: Gay Date Analyzed: 10/29/2020

retail to support the support to the		Datertilai	y2001 10/23/2020	
Contaminant	RL	MCL	Result	·
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND	
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorobutanesulfonic acid (PFBS)	1.0		1.84	
Perfluorodecanoic acid (PFDA)	1.0		ND	
Perfluorododecanoic acid (PFDoA)	2.0		ND	
Perfluoroheptanoic acid (PFHpA)	2.0		2.59	
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND	
Perfluorohexanoic acid (PFHxA)	1.0		5.13	
Perfluorononanoic acid (PFNA)	2.0		ND	
Perfluorooctanesulfonic acid (PFOS)	2.0		ND	
Perfluorooctanoic acid (PFOA)	1.0		6.37	
Perfluorotetradecanoic acid (PFTDA)	1.0		ND	
Perfluorotridecanoic acid (PFTrDA)	2.0		ND	
Perfluoroundecanoic acid (PFUnDA)	1.0		ND	

Comments:

Approved by: Sacra Muneca

Approval date: 11/05/2020

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001039008

Method: EPA 537.1 - PFAS

Date Received:

10/15/2020

Date Collected: 10/15/2020

Field ID: FB0070011TP01 Submitted By: Gav Date Analyzed: 10/29/2020

rield ID:	rbooroomred Submitted by: Gay		Date Anai	yzea: 10/29/2020	
Contamina	<u>unt</u>	RL	MCL	Result	
1-chloroeic	osafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-3	H-perfluorononanoic acid (ADONA)	1.0		ND	
9-chlorohex	adecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluoro	propylene oxide dimer acid (HFPO-DA)	1.0		ND	
N-ethyl perf	luorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND	1065
N-methyl pe	erfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorobu	tanesulfonic acid (PFBS)	1.0		ND	
Perfluorode	canoic acid (PFDA)	1.0		ND	
Perfluorodo	decanoic acid (PFDoA)	2.0		ND	
Perfluorohe	ptanoic acid (PFHpA)	2.0		ND	
Perfluorohe	xanesulfonic acid (PFHxS)	1.0		ND	
Perfluorohe	xanoic acid (PFHxA)	1.0		ND	
Perfluorono	nanoic acid (PFNA)	2.0		ND	
Perfluorooc	tanesulfonic acid (PFOS)	2.0		ND	
Perfluorooc	tanoic acid (PFOA)	1.0		ND	
Perfluorotet	radecanoic acid (PFTDA)	1.0		ND	
Perfluorotrio	decanoic acid (PFTrDA)	2.0		ND	
Perfluoroun	decanoic acid (PFUnDA)	1.0		ND	

Comments:

Approved by:

Approval date: 11/05/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Page 8 of 10

Send Report to:

State of Maryland MDH - Laboratories Administration Division of Environmental Chemistry

ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue

Temperature Blank: 30 °C

	BALTIMORE, MARY	/LAND 21205	
LA	ABORATORY ANALYS	SIS REQUEST FORM	
	Please write	- •	
Bottle No.: 00 7-00 11-7 P	ant/Site Name: To W,	NOFELIKTON (County: CECIC
Location: WELL 3	Sample So	ource;Street	Town or City
6 I occus ium can est a	2000 B G G		
Collector/ID: JOSEPH GA	18841-16-	Phone No.:	4104467324
OO7 OO11 OC	070011	7 P 0 2 60 / 15 /20 5	20 8.4. am/ym
Field Data: pHO6,5	Free CI:		CI: 1,0
Sample Type: Drinking water	Landfill □ Sou	irce (water)	□ Oil
		tribution (treated)	□ Solid
□ Community □		ter Treatment Plant POE	□ Other
□ Non-Community			590.00
Specify Program: ☑ SDWA ☐ N	PDES □ RCRA	□ CWA □ CERCLA	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	□ Sodium thiosulfate	Comment
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thlosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Voiatiles)☐ VOCS☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	100
☐ EPA Method 8260 (VOCs)	FIELD BLANGE	TRIS BASE TRISHEL	
E21001039009 Received: 10/15/2020 EPA 537.1 Organics 0070011TP02	E21001039010 Received: 10/15/2020 Organics FB	NOT AND THE OTHER DESIGNATION OF THE OTHER DES	
Domaska			
Remarks:			
Lab Supervisor:		Date Rep	orted://

Phone: (443) 681-3857

•Fax: (443) 681-4507



Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001039009

Method: EPA 537.1 - PFAS

Date Received:

10/15/2020

Date Collected: 10/15/2020

Field ID:	0070011TP02	Submitted By: Gay		Date Analyzed:	10/29/2020
Contamin	<u>ant</u>		RL	MCL	Result
1-chloroeid	cosafluoro-3-oxaunde	cane-1-sulfonic acid (11Cl-PF3OUd	S) 2.0		ND
4,8-dioxa-	3H-perfluorononanoic	acid (ADONA)	1.0		ND
9-chlorohe	xadecafluoro-3-oxan	onane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoro	propylene oxide dime	er acid (HFPO-DA)	1.0		ND
N-ethyl per	rfluorooctanesulfonan	nidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl p	erfluorooctanesulfon	amidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorob	utanesulfonic acid (Pl	FBS)	1.0		4.80
Perfluorod	ecanoic acid (PFDA)		1.0		ND
Perfluorod	odecanoic acid (PFD	oA)	2.0		ND
Perfluoroh	eptanoic acid (PFHp <i>P</i>	A)	2.0		6.22
Perfluoroh	exanesulfonic acid (P	FHxS)	1.0		4.46
Perfluoroh	exanoic acid (PFHxA)		1.0		9.70
Perfluoron	onanoic acid (PFNA)		2.0		2.66
Perfluoroo	ctanesulfonic acid (Pf	FOS)	2.0		6.88
Perfluoroo	ctanoic acid (PFOA)		1.0		22.90
Perfluorote	tradecanoic acid (PF	TDA)	1.0		ND
Perfluorotri	idecanoic acid (PFTr[DA)	2.0		ND
Perfluorou	ndecanoic acid (PFUr	nDA)	1.0		ND

Comments:

Approved by:

Approval date: 11/05/2020

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001039010

Method: EPA 537.1 - PFAS

Date Received:

10/15/2020

Date Collected: 10/15/2020

Field ID:	FB0070011TP02	Submitted By: Gay		Date Analyz	ed: 10/29/2020	
Contamin	<u>ant</u>		<u>RL</u>	MCL	Result	
1-chloroeid	cosafluoro-3-oxaunde	cane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoid	acid (ADONA)	1.0		ND	
9-chlorohe	xadecafluoro-3-oxan	onane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluord	propylene oxide dime	er acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonar	nidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfon	amidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (P	FBS)	1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFD	pA)	2.0		ND	
Perfluoroh	eptanoic acid (PFHpA	A)	2.0		ND	
Perfluoroh	exanesulfonic acid (P	FHxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)	1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (Pl	FOS)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PF	TDA)	1.0		ND	
Perfluorotr	idecanoic acid (PFTrI	DA)	2.0		ND	
Perfluorou	ndecanoic acid (PFU	nDA)	1.0		ND	

Comments:

Approved by:

Approval date: 11/05/2020

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Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: NIA °C No Femp Blank Recid on 1Ce AF 10115/26

LABORATORY ANALYSIS REQUEST FORM

	County: DAVTO CIT	D Town or City	4435204918		C / October	Time Collected	Total CI: 00	□ Oil	□ Solid □		☐ Consumer Products		Comment									INCL 2 F.B. 354MPU		
egibly		Hinen	Phone No.:		4	Plant No. Date Collected	100	□ Source (water)	☐ Distribution (treated) ☐ Water Treatment Plant POE		□ CWA □ CERCLA		Preservative Used	☐ Sodium thiosulfate	☐ Sodium thiosulfate	☐ Sodium thiosulfate	☐ HCL (6N) ☐ Sodium sulfite	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	☐ Ammonium chloride	☐ Sodium thiosulfate	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	TRIS BASE	E21001038002 Received: 10/15/2020 EPA 537.1 Organics FB0300002TP02	
Please write legibly	0012-7012 Plant/Site Name: MONTERELLO	Sample Son	2-12-517			0	Free CI:	□ Landfill □ Sou	☐ Soil/Sediment ☐ Wat		DES \square RCRA		Field & Trip Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank		☐ Field Blank ☐ Trip Blank		E210010380 Received: 10/15/2 Organics	
	Bottle No.: 030. 0012. 7012 Plan	Location: F.P 1+2 (2 (acations)	Collector/ID: (35 M V 52 N) 2302 - 12 - 5	0000	5	County System No.	rielu Data: pr	ng water	□ Private □ S □ Community □ S	□ Non-Community	Specify Program: SDWA NPDES	□ Other	Test Requested	☐ EPA Method 504.1 (EDB/DBCP)	☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ EPA Method 515.3 (Herbicides)	☐ EPA Method 525.2 (Pesticides)	☐ EPA Method 531.2 (Carbamates)	☐ EPA Method 552.2 (Haloacetic acids)	☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	© EPA Method 8268 (VOOs)	E21001038001 Received: 10/15/2020 EPA 537.1 Organics 0300002TP02	

Lab Supervisor:

Remarks:

•Phone: (443) 681-3857

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Date Reported:

ORIGINAL - LABORATORY



of Analysis Certificate

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001038001

Method: EPA 537.1 - PFAS

10/21/2020 Result 1.63 1.58 1.98 Ω S 9 9 9 9 S S 2 9 2 S 9 9 Date Analyzed: MCL 0.1 2.0 1.0 2.5 3.0 1.0 0.1 2.0 2.0 0. 1.0 2.0 2.0 0. 1.0 2.0 2.0 0.1 10/15/2020 Rasmussen 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) Date Collected: Submitted By: N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) Hexafluoropropylene oxide dimer acid (HFPO-DA) 4,8-dioxa-3H-perfluorononanoic acid (ADONA) Perfluorohexanesulfonic acid (PFHxS) Perfluorotetradecanoic acid (PFTDA) Perfluorobutanesulfonic acid (PFBS) Perfluorooctanesulfonic acid (PFOS) Perfluoroundecanoic acid (PFUnDA) Perfluorotridecanoic acid (PFTrDA) Perfluorododecanoic acid (PFDoA) Perfluoroheptanoic acid (PFHpA) Perfluorohexanoic acid (PFHxA) Perfluorodecanoic acid (PFDA) Perfluorononanoic acid (PFNA) Perfluorooctanoic acid (PFOA) ved: 10/15/2020 0300002TP02 Date Received: Contaminant Field ID:

Comments:

Approval date: 10/29/2020	
Numero	
Sacio	
Approved by:	

received this 'All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received

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MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Method: EPA 537.1 - PFAS Lab No.: E21001038002

Date Collected: 10/15/2020 10/15/2020 Date Received: 1 Field ID: FB0300

Field ID: FB030002TP02 Submitted By: Rasmussen		Date Analyzed: 10/28/2020	10/28/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		QN
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ΩN
Perfluorobutanesulfonic acid (PFBS)	1.0		ΩN
Perfluorodecanoic acid (PFDA)	1.0		ΩN
Perfluorododecanoic acid (PFDoA)	2.0		QN
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		QN
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		QN

Comments:

Approval date:	
Munech	
Sacio	
Approved by:	

0/29/2020

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Send Report to:

PEAS

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: NIA 'C.
NO Temp Blank: Recidon 100
AF 10/15/20

LABORATORY ANALYSIS REQUEST FORM

1030 Jumpin ☐ Consumer Products DARW DARW DR Phone No.: 443520 4 □ Other □ Solid County: 120 20 Total CI: □ CERCLA ☑ Water Treatment Plant POE ☐ Distribution (treated) 2001 Plant/Site Name: #5#84270 N □ Source (water) Plant No. "The MED" Sample Source: Please write legibly □ RCRA Free CI: □ Soil/Sediment 302-□ Landfill Stream □ NPDES do Sink ASMMSSEN 1001-2000 □ Non-Community ☑ Drinking water 000 ☑ Community Specify Program: CSDWA System No. □ Private Location: K.f. Bottle No.: 030 Field Data: pH Sample Type: Collector/ID:

	_	_					-		r		-
	Comment								BANNESS TON	INCL 2 F.B 3 SAMPLES	
	Preservative Used	☐ Sodium thiosulfate	☐ Sodium thiosulfate	☐ Sodium thiosulfate	☐ HCL (6N)	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	☐ Ammonium chloride	☐ Sodium thiosulfate	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	JR15 BESA	
	Field & Trip Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank		☐ Field Blank ☐ Trip Blank		
□ Other	Test Requested	EPA Method 504.1 (EDB/DBCP)	EPA Method 508 [Arociors (SCAN only) & Toxaphene]	EPA Method 515.3 (Herbicides)	1 EPA Method 525.2 (Pesticides)	☐ EPA Method 531.2 (Carbamates)	1 EPA Method 552.2 (Haloacetic acids)	1 EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	FPA Method 6260 (VOCS)	
										M	

0 EPA 537.1 0300002TP01 E21001038003
Received: 10/15/2020 EPA 537.1
Organics 0300002TP0

© EPA 537.1 FB0300002TP01 E21001038004 EPA 537.1 Organics FB0300002T

Date Reported: Lab Supervisor:

Remarks:

Phone: (443) 681-3857

Fax: (443) 681-4507

ORIGINAL - LABORATORY



Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001038003

Method: EPA 537.1 - PFAS

	Date Collected: 10/15/2020		
Field ID: 0300002TP01	Submitted By: Rasmussen	Date Analyzed: 10/21/202	10/21/202

Field ID: 0300002TP01 Submitted By: Rasmussen		Date Analyzed: 10/21/2020	10/21/2020
Contaminant	R	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ΩN
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.50
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		a, QN
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0	2	1.02
Perfluorohexanoic acid (PFHxA)	1.0		1.87
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		2.66
Perfluorooctanoic acid (PFOA)	1.0		2.27
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approval date:	
Muneco	
Saci	
Approved by:	

10/29/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received

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MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001038004

10/15/2020 Date Collected: Date Received: 10/15/2020 Field ID: FB0300002TP01

Method: EPA 537.1 - PFAS

	Date Analyzed:	10/28/2020
R. I	10	Result
2.0		ND
1.0		ND
2.0		QN
1.0		ND
2.5		ND
3.0		ND
1.0		ND
1.0		ND
2.0		ND
2.0		ND
1.0		ND
1.0		ND
2.0		ND
2.0		ND
1.0		ND
1.0		ND
2.0		QN
1.0		ND

Comments:

Manne	
Sacra	
Approved by:	

Approval date: 10/29/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received

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Fax: (443) 681-4507

Page 4 of 4

Temperature Blank: NA C 22 Send Report to: State of Maryland MDII - Laboratories Administration Division of Environmental Chemistry ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue BALTIMORE, MARYLAND 21205 LABORATORY ANALYSIS REQUEST FORM Please write legibly Plant/Site Name: Hagers town County: WASH Bottle No .: 021 -0010 - 1201 Sample Source: Batch color(5) : BILLE-FB, 1 Location: PUZ@ WTO 6323 DH Phone No.: 4104467432 10/19/2020 County Free CI: 1.3 Total CI: Sample Type: Drinking water □ Oil □ Landfill ☐ Source (water) □ Private ☐ Distribution (treated) □ Solid □ □ Stream Community □ Soil/Sediment □ Water Treatment Plant POE □ Other □ Non-Community Specify Program: DBDWA □ NPDES □ RCRA □ CWA □ CERCLA □ Consumer Products □ Other Field & Trip Blank Preservative Used Comment Test Requested ☐ EPA Method 504.1 (EDB/DBCP) ☐ Field Blank ☐ Sodium thlosulfate ☐ EPA Method 508 [Aroclors (SCAN ☐ Field Blank ☐ Sodlum thiosulfate only) & Toxaphene] ☐ Sodium thiosulfate ☐ EPA Method 515.3 (Herbicides) ☐ Field Blank ☐ HCL (6N) ☐ EPA Method 525.2 (Pesticides) ☐ Field Blank ☐ Sodium sulfite ☐ Potassium Citrate monobasic ☐ EPA Method 531.2 (Carbamates) ☐ Field Blank ☐ Sodium thiosulfate ☐ EPA Method 552.2 (Haloacetic acids) ☐ Field Blank ☐ Ammonium chloride EPA Method 8270 (Semi-Volatiles) ☐ Sodium thiosulfate Pesticides ☐ Aroclors DAILHOL TRIZMA EPA Method 524.2 (Votatiles) 537 Field Blank ☐ 1:1 HCL + Ascorbic acid 0 V968 ☐ THMs ☐ Trip Blank PEAS ☐ Sodium thiosulfate ☐ EPA Method 8260 (VOCs)

E21001088001 Received: 10/20/2020 EPA 537.1 Organics 021-0010-TP01	E 2100116500 Fb.	
i.		
Remarks: 2 FB revieved	but ist regulated	in Stadems for 11/10

Phone: (443) 681-3857

Date Reported: ____/___/____

•Fax: (443) 681-4507

Lab Supervisor:



Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001088001

Method: EPA 537.1 - PFAS

Date Received:

10/20/2020

Date Collected: 10/19/2020

Field ID: 021-0010-TP01

Submitted Bv: Holt

Date Analyzed: 10/30/2020

Field ID:	021-0010-1701	Submitted By: Holt		Date Anai	yzea: 10/30/2020	
Contamin	ant		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaunde	cane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic	acid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxand	onane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dime	er acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonam	nidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfona	amidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (Pf	FBS)	1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDd	pA)	2.0		ND	
Perfluoroh	eptanoic acid (PFHpA	.)	2.0		ND	
Perfluoroh	exanesulfonic acid (P	FHxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PF	FOS)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PF	TDA)	1.0		ND	
Perfluorotr	idecanoic acid (PFTrD	DA)	2.0		ND	
Perfluorou	ndecanoic acid (PFUr	nDA)	1.0		ND	

Comments:

pH measured 2.0

Approved by:

Approval date: 11/05/2020

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001165001

Method: EPA 537.1 - PFAS

Date Received: 10

10/20/2020

Date Collected: 10/19/2020

FB0210010TP01 Submi

mitted Bv: Holt

Field ID:	FB0210010TP01	Submitted By: Holt		Date Analy	zed: 10/30/2020	
Contamin	<u>ant</u>		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaunded	cane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic	acid (ADONA)	1.0		ND	
9-chlorohe	xadecafluoro-3-oxano	nane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluord	propylene oxide dime	r acid (HFPO-DA)	1.0		ND	
N-ethyl per	rfluorooctanesulfonam	idoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfona	midoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PF	BS)	1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDo	A)	2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)	2.0		ND	
Perfluoroh	exanesulfonic acid (Pf	FHxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PF	OS)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFT	TDA)	1.0		ND	
Perfluorotr	idecanoic acid (PFTrD	A)	2.0		ND	
Perfluorou	ndecanoic acid (PFUn	DA)	1.0		ND	

Comments:

Approved by: Sacia Muneca

Approval date: 11/05/2020

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Send Report to:	State of Mary MDH - Laboratories Ad Division of Environmer ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	nninistration ntal Chemistry L LABORATORY conuc	perature Blank: <u>NA</u> °c 10120170 (21
LA	ABORATORY ANALYS	IS REQUEST FORM	
	Please write	legibly	
Bottle No.: 021-0017-TP01 PI	ant/Site Name: _Shar	psburg	County: Wash
Location: POCO WN	Sample So	urce:Street	Town or City
Collector/ID: Holf 63237	+		4104467432
County System No.	LIOO17	0 10 / 19 /207 Plant No. Date Collected	1700 amptil
Field Data: pH	Free CI:	Tota	CI: O. 8
□ Private □ □ Community □ □ Non-Community	Stream Dis	tribution (treated) ter Treatment Plant POE	□ Oil □ Solid □ Other
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	Comment
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	□ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
EPA Method 524.2 (Volatiles) 533.	☐ Field Blank □ Trip Blank	□ 1:1 HCL + RCOrbic acid □ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs)		à.	
E21001088002 Received: 10/20/2020 EPA 537.1 Organics 021-0017-TP01	E 21001165 FB .	702	

Remarks: FB got regulered (reciered 2 FB) Sur 10/20/20.

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ORIGINAL - LABORATORY

Lab Supervisor:



Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001088002

Method: EPA 537.1 - PFAS

Date Received:

10/20/2020

Date Collected: 10/19/2020

Field ID: 021-0017-TP01

Submitted By: Holt Date Analyzed: 10/30/2020

Field ID:	021-0017-11901	Submitted By: Holt		Date Anal	yzed: 10/30/2020	
Contamir	nant		RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaunde	cane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoid	acid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxan	onane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dime	er acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonar	nidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl i	perfluorooctanesulfon	amidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	outanesulfonic acid (P	FBS)	1.0		2.01	
Perfluorod	lecanoic acid (PFDA)		1.0		ND	
Perfluorod	lodecanoic acid (PFD	oA)	2.0		ND	
Perfluoroh	eptanoic acid (PFHpA	A)	2.0		ND	
Perfluoroh	exanesulfonic acid (P	PFHxS)	1.0		1.27	
Perfluoroh	exanoic acid (PFHxA)	1.0		1.98	
Perfluoron	ionanoic acid (PFNA)		2.0		ND	
Perfluoroo	octanesulfonic acid (Pl	FOS)	2.0		ND	
Perfluoroo	octanoic acid (PFOA)		1.0		1.41	
Perfluorote	etradecanoic acid (PF	TDA)	1.0		ND	
Perfluoroti	ridecanoic acid (PFTrI	DA)	2.0		ND	
Perfluorou	indecanoic acid (PFU	nDA)	1.0		ND	

Comments:

Approved by:

Approval date: 11/05/2020

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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001165002

Method: EPA 537.1 - PFAS

Date Received:

10/20/2020

Date Collected: 10/19/2020

Field ID: FB0210017TP01 Submitted By: Holt Date Analyzed: 10/30/2020 Contaminant RL MCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND 1.0 Hexafluoropropylene oxide dimer acid (HFPO-DA) ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 ND Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND 1.0 Perfluorohexanesulfonic acid (PFHxS) ND Perfluorohexanoic acid (PFHxA) 1.0 ND Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 ND Perfluorotetradecanoic acid (PFTDA) 1.0 ND Perfluorotridecanoic acid (PFTrDA) 2.0 ND 1.0 Perfluoroundecanoic acid (PFUnDA) ND

Comments:

Approved by:

Approval date: 11/05/2020

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Send Report to:	State of Maryland Ter MDH - Laboratories Administration Division of Environmental Chemistry ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue BALT!MORE, MARYLAND 21205		perature Blank: 30 °C 47 10/19 (20
L/	ABORATORY ANALYS	IS REQUEST FORM	
Bottle No.: 013 - 0013 - 01 PI	Please write City ant/Site Name:	legibly stavre de Esaie	County: Has Perd
Location: With PEE tap			
			·
Collector/ID: Look	ingland Gl	720 Phone No.:	410 419 2709
County System No.			Time Collected
Field Data: pH	Free CI:	7.00 Total	1CI: 2.00
□ Private □	Stream Dis	nrce (water) tribution (treated) ter Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: SDWA DOTHER	PDES RCRA	□ CWA □ CERCLA	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank ☐ HCL (6N) ☐ Sodium sulfite		
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank ☐ Potassium Citrate monobasic ☐ Sodium thiosulfate		
☐ EPA Method 552.2 (Haloacetic acids)	□ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	ା Field Blank □ Trip Blank ହାଦେ	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
PFA S	A Field Blank	Vellow batch)	
E21001070005 Received: 10/19/2020 EPA 537.1 012-0012-01	E21001070006 Received: 10/19/2020 FB		
LRemarks:	4		
Lab Supervisor: • Phone:	(443) 681-3857	Date Rep	orted:/



Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001070005

Method: EPA 537.1 - PFAS

Date Received:

10/19/2020

Date Collected: 10/19/2020

Field ID: 012-0012-01

Field ID:	012-0012-01	Submitted By:	Lookingland		Date Analyzed:	10/30/2020
Contamin	ant_			RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)		F3OUdS)	2.0		ND	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)			1.0		ND	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)		F3ONS)	2.0		ND	
Hexafluoropropylene oxide dimer acid (HFPO-DA)		1.0		ND		
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)			2.5		ND	
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)		λA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)			1.0		2.10
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorododecanoic acid (PFDoA)			2.0		ND	
Perfluoroheptanoic acid (PFHpA)			2.0		ND	
Perfluorohexanesulfonic acid (PFHxS)		1.0		1.23		
Perfluorohexanoic acid (PFHxA)		1.0		3.00		
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		3.28
Perfluorood	ctanoic acid (PFOA)			1.0		2.66
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 11/05/2020

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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001070006

Method: EPA 537.1 - PFAS

Date Received:

10/19/2020

Date Collected: 10/19/2020

Field ID: FB-012-0012-01	Submitted By: Lookingland		Date Analyze	ed: 10/30/2020
<u>Contaminant</u>		RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)		2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)		1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)		2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)		1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)		2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)		3.0		ND
Perfluorobutanesulfonic acid (PFBS)		1.0		ND
Perfluorodecanoic acid (PFDA)		1.0		ND
Perfluorododecanoic acid (PFDoA)		2.0		ND
Perfluoroheptanoic acid (PFHpA)		2.0		ND
Perfluorohexanesulfonic acid (PFHxS)		1.0		ND
Perfluorohexanoic acid (PFHxA)		1.0		ND
Perfluorononanoic acid (PFNA)		2.0		ND
Perfluorooctanesulfonic acid (PFOS)		2.0		ND
Perfluorooctanoic acid (PFOA)		1.0		ND
Perfluorotetradecanoic acid (PFTDA)		1.0		ND
Perfluorotridecanoic acid (PFTrDA)		2.0		ND
Perfluoroundecanoic acid (PFUnDA)		1.0		ND

Comments:

Approval date: 11/05/2020

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Send Report to:	State of Mary MDH - Laboratories Ad Division of Environmer ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	ministration stal Chemistry LLABORATORY enue	Тетр	erature Blank: 3 AT 10/10
LA	ABORATORY ANALYS	IS REQUEST FORM	1	
Bottle No.: 019-0003-01 PI	Please write MD Am ant/Site Name: Wate	legibly Nercean Company	C	aunty Has Rerd
Bottle No.: 017-0003-01 Pl Location: Winters Run Fine	il tap Sample So	urce: 1004 W. Bau	timere	Pike Belati
Collector/ID: Lockii	igland Gl7	Street Phor	ne No.:	410 419 2709
County System No.	2003 PWSID	D 1 10 11 Plant No. Date O	9 /20 d	v <u>DS 30 adjom</u> Time Collecte
Field Data: pH 7. 0	Free CI:	2.01	Total	ci: 2.01
□ Private □	Stream □ Dis	rice (water) tribution (treated) ter Treatment Plant PO	E	□ Oil □ Solid □ Other
Specify Program: XSDWA D N	PDES RCRA	□ CWA □ CE	RCLA	☐ Consumer Product
Test Requested	Field & Trip Blank	Preservative Use	ed	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite		
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate mo☐ Sodium thiosulfate	onobasic	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride		
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	*	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic a ☐ Sodium thiosulfate	ıcid	
PAS 531. 9	* Field Blank	(Yellow bate	h)	
E21001070001 Received: 10/19/2020 EPA 537.1 012-0003-01	E21001070002 Received: 10/19/2020	MINIMUM		
Remarks: Lab Supervisor:			Date Repo	orted://

ORIGINAL - LABORATORY



Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001070001

Method: EPA 537.1 - PFAS

Date Received:

10/19/2020

Date Collected: 10/19/2020

Field ID:

012-0003-01

Submitted By: Lookingland

Date Analyzed: 10/29/2020

Fleid ID:	012-0003-01	Submitted by: L	OOKINGIand	Date Anai	yzea: 10/29/2020	
Contamin	ant		RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaundecane-1-su	ılfonic acid (11Cl-PF3	3OUdS) 2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid (ADG	ONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanonane-1-s	ulfonic acid (9Cl-PF3	ONS) 2.0		ND	
Hexafluor	opropylene oxide dimer acid (HF	FPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamidoacetic	acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonamidoacet	tic acid (N-MeFOSA	A) 3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)		1.0		2.34	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFHxS)		1.0		2.49	
Perfluoroh	exanoic acid (PFHxA)		1.0		1.76	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		2.65	
Perfluoroo	ctanoic acid (PFOA)		1.0		2.22	
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND	

Comments:

Approved by:

Approval date: 11/05/2020

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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001070002

Method: EPA 537.1 - PFAS

Date Received: 10/19/2020

Date Collected: 10/19/2020

Field ID: FB-012-0003-01 Submitted By: Lookingland Date Analyzed: 10/30/2020

Field IU:	FB-012-0003-01	Submitted By: Lookingland	1	Date Anai	yzed: 10/30/2020	
Contamin	ant		RL	<u>MCL</u>	Result	
1-chloroeid	cosafluoro-3-oxaundecan	e-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid	d (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanonar	ne-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluord	ppropylene oxide dimer ac	sid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamido	acetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonamic	loacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)	1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFHx	S)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFOS)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFTDA	·)	1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA		1.0		ND	

Comments:

Approved by:

Approval date: 11/05/2020

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Page 2 of 6

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Temperature Blank: 3" c AT 10119120 Send Report to: State of Maryland MDH - Laboratories Administration Division of Environmental Chemistry ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue BALTIMORE, MARYLAND 21205 LABORATORY ANALYSIS REQUEST FORM Please write legibly MD American Bottle No.: 012-0003-02 Plant/Site Name: Water Company Location: Bynun Run well Finish top Sample Source: 705 Charchville Rol Lookingland GL7710 Phone No.: 410419,2709 0.74 Field Data: pH Free CI: Total CI: 0.74 Sample Type: Drinking water □ Landfill ☐ Source (water) □ Oil □ Private □ Stream ☐ Distribution (treated) □ Solid == **X** Community □ Soil/Sediment Water Treatment Plant POE □ Other □ Non-Community Specify Program: SDWA □ NPDES □ RCRA □ CWA □ CERCLA ☐ Consumer Products □ Other Test Requested Field & Trip Blank Preservative Used Comment ☐ EPA Method 504.1 (EDB/DBCP) ☐ Field Blank ☐ Sodium thiosulfate EPA Method 508 [Aroclors (SCAN ☐ Field Blank ☐ Sodium thiosulfate only) & Toxaphene] ☐ EPA Method 515.3 (Herbicides) ☐ Field Blank ☐ Sodium thiosulfate ☐ EPA Method 525.2 (Pesticides) ☐ Field Blank ☐ HCL (6N) ☐ Sodium sulfite ☐ EPA Method **531.2** (Carbamates) ☐ Field Blank ☐ Potassium Citrate monobasic □ Sodium thiosulfate ☐ EPA Method **552.2** (Haloacetic acids) ☐ Field Blank □ Ammonium chloride EPA Method 8270 (Semi-Volatiles) ☐ Sodium thiosulfate □ Pesticides ☐ Aroclors EPA Method 524.2 (Volatiles) ☐ Field Blank ☐ 1:1 HCL □ VOCS ☐ Trip Blank ☐ 1:1 HCL + Ascorbic acid 13/19/20 ☐ Sodium thiosulfate EPA Method 8289 (WOGS) TRIZMA I ALAH MA ANLAK TAN HALAK ILIS ARI HALIK ILIS HALAH E21001070004 E21001070003 Received: 10/19/2020 EPA 537.1 Received: 10/19/2020 EPA 537.1 012-0003-02 FB-012-0003-02 Remarks: Lab Supervisor: Date Reported: ____/__

•Phone: (443) 681-3857

•Fax: (443) 681-4507

ORIGINAL - LABORATORY



Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001070003

Method: EPA 537.1 - PFAS

Date Received:

10/19/2020

Date Collected: 10/19/2020

012-0003-02

Field ID: Submitted By: Lookingland Date Analyzed: 10/30/2020 Contaminant RL MCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 6.76 Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 3.79 Perfluorohexanesulfonic acid (PFHxS) 1.0 2.63 Perfluorohexanoic acid (PFHxA) 1.0 7.32 Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 8.00 Perfluorooctanoic acid (PFOA) 1.0 8.22 Perfluorotetradecanoic acid (PFTDA) 1.0 ND Perfluorotridecanoic acid (PFTrDA) 2.0 ND

Comments:

Perfluoroundecanoic acid (PFUnDA)

Approval date: 11/05/2020

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Page 3 of 6

1.0

S:\EnviroFinal-Organics-PFAS.ri

ND

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.



Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001070004

Method: EPA 537.1 - PFAS

Date Received: 10/19/2020

Date Collected: 10/19/2020

Field ID:	FB-012-0003-02	Submitted By:	Lookingland		Date Analyzed:	10/30/2020
Contamin	ant_			RL	MCL	Result
1-chloroeid	osafluoro-3-oxaundecane-1-sul	onic acid (11Cl-P	F3OUdS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (ADO	NA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-su	lfonic acid (9Cl-Pl	F3ONS)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFI	PO-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic a	acid (N-EtFOSAA)	1	2.5		ND
N-methyl p	erfluorooctanesulfonamidoaceti	acid (N-MeFOS/	4 A)	3.0		ND
Perfluorobi	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 11/05/2020

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^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

0.0 °C (KB 10 21/20

Temperature Blank:

LABORATORY ANALYSIS REQUEST FORM

	Please write legibly	legibly	
Bottle No.: 006-0015-7906 Pla	Plant/Site Name: Westminste	Well 8	County: Larroll
Location: Plant	Sample Source:	urce: Kote Waynor Ro	Westanste,
Collector/ID: Shown Lowman	759200	Phone No.:	4886466014
0 0 6 0 0 1 S 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S 1 0 0 9	7 6 0 6 10 / 30 /2030 Plant No. Date Collected	S 40 (ampm) Time Collected
Field Data: pH 7, 9	Free CI:	J. O Total CI:	6.
Sample Type: Drinking water	☐ Landfill ☐ Sou☐ Sou☐ Stream ☐ Dist☐ Soil/Sediment ☐ Wat	☐ Source (water) ☐ Distribution (treated) ☐ Water Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: SDWA N	□ NPDES □ RCRA	□ CWA □ CERCLA	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method 8260 (VOCs) 537.1 ☑ FAS	O Equipment Blank	I Tiera Yellow	
E21001118001 Received: 10/21/2020 EPA 537.1 Organics 006-0015-TP06	118002 10/21/202	© EPA 537.1 FB006-0015-TPC	
Remarks:			
Lab Supervisor:		Date Reported:	orted:
•Phone:	• Phone: (443) 681-3857	•Fax: (443) 681-4507	



Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001118001

Method: EPA 537.1 - PFAS

10/20/2020 Date Collected: Date Received: 10/21/2020 Field ID: 006-0015-TP06

Field ID: 006-0015-TP06 Submitted By: Shawn Lowman	lan	Date Analyzed: 10/22/2020	10/22/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ΩN
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ΩN
Perfluorobutanesulfonic acid (PFBS)	1.0		11.32
Perfluorodecanoic acid (PFDA)	1.0		QN
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		11.96
Perfluorohexanesulfonic acid (PFHxS)	1.0		123.18
Perfluorohexanoic acid (PFHxA)	1.0		25.95
Perfluorononanoic acid (PFNA)	2.0		10.16
Perfluorooctanesulfonic acid (PFOS)	2.0		136.03
Perfluorooctanoic acid (PFOA)	1.0		18.93
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

	Sample require dilution for compounds that measured greater than 100ppt	Hunes
	lution for compounds the	Sacio
Final Report	Sample require di	Approved by:

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Approval date: 10/29/2020

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)

Hexafluoropropylene oxide dimer acid (HFPO-DA)

Lab No.: E21001118002

Method: EPA 537.1 - PFAS

Date Received: 10/21/2020 Field ID: FB006-0015-TP06 Date Collected: 10/20/2020

Field ID: FB006-0015-TP06 Submitted By: Shawn Lowman Date Analyzed: 10/22/2020

Contaminant RL MCL Result

1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND

4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND

2.0

1.0

N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)

N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)

Perfluorobutanesulfonic acid (PFBS)

1.0

ND

Perfluorodecanoic acid (PFDA)

1.0

ND

Perfluorododecanoic acid (PFDA)

2.5

ND

ND

Perfluoroheptanoic acid (PFHpA) 2.0 ND
Perfluorohexanesulfonic acid (PFHxS) 1.0 ND
Perfluorohexanoic acid (PFHxA) 1.0 ND
Perfluorononanoic acid (PFNA) 2.0 ND

Perfluorooctanesulfonic acid (PFOS)

Perfluorooctanoic acid (PFOA)

Perfluorotetradecanoic acid (PFTDA)

Perfluorotridecanoic acid (PFTDA)

2.0

ND

ND

Perfluorotridecanoic acid (PFTrDA)2.0NDPerfluoroundecanoic acid (PFUnDA)1.0ND

Comments:

Approved by: Sadra Muneem

Approval date: 10/27

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ND

ND

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C Kβιογυβο

LABORATORY ANALYSIS REQUEST FORM

	Please write legibly	legibly	
Bottle No.: 006-0015-7706 Pla	Plant/Site Name: West	Westminster Well 8	County: (4/10 1/
Location: Plant Rew Tap	Sample Source:	ource: Kate Wagner Rd	West in ster Town or City
Collector/ID: Shaw Lowner	007651	. 57 Phone No.:	4882 468 O14
2100	510070		
ity System No.	PWSID	No.	S S'O Ampm Time Collected
Field Data: pH	Free CI:	0.0 Total CI:	0
ig water		Source (water)	Li Oil
☐ Private ☐ ☐ Community ☐ ☐ Non-Community ☐	□ Stream □ Dis □ Soil/Sediment □ Wat	□ Distribution (treated)□ Water Treatment Plant POE	□ Solid □ Other □
Specify Program: ESDWA DNI	□ NPDES □ RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N)	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method 8268 (VOGS) \$37.1	E Field Blank Equipment Blank	(3 Trizna Yellow	
E21001118003 E21001118003 Received: 10/21/2020 EPA 537.1 Organics	E21001118004 E21001112020 EPA 537 Received: 10/21/2020 FB006-00 Organics		
Remarks: Lab Supervisor:		Date Do	nowfod.
	•Phone: (443) 681-3857	Fax: (443) 681-4507	porteu:



Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001118003

Method: EPA 537.1 - PFAS

Date Collected: Submitted By: ed: 10/21/2020 006-0015-TP06 Date Received: Field ID: 006

10/20/2020 Shawn Lowm

Field ID:	006-0015-TP06 Submi	Submitted By: Shawn Lowman	ב	Date Analyzed: 10/22/2020	10/22/2020
Contaminant	int		RL	MCL	Result
1-chloroeic	1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	d (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3	4,8-dioxa-3H-perfluorononanoic acid (ADONA)		1.0		ND
9-chlorohe)	9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	id (9CI-PF3ONS)	2.0		ND
Hexafluoro	Hexafluoropropylene oxide dimer acid (HFPO-DA)		1.0		ND
N-ethyl per	N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	EtFOSAA)	2.5		ND
N-methyl p	N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	I-MeFOSAA)	3.0		ND
Perfluorobu	Perfluorobutanesulfonic acid (PFBS)		1.0		11.85
Perfluorode	Perfluorodecanoic acid (PFDA)		1.0		ND
Perfluorodo	Perfluorododecanoic acid (PFDoA)		2.0		ND
Perfluorohe	Perfluoroheptanoic acid (PFHpA)		2.0		12.30
Perfluorohe	Perfluorohexanesulfonic acid (PFHxS)		1.0		84.94
Perfluorohe	Perfluorohexanoic acid (PFHxA)		1.0		32.59
Perfluorond	Perfluoronanoic acid (PFNA)		2.0		10.87
Perfluorooc	Perfluorooctanesulfonic acid (PFOS)		2.0		172.92
Perfluorooc	Perfluorooctanoic acid (PFOA)		1.0		20.54
Perfluorote	Perfluorotetradecanoic acid (PFTDA)		1.0		ND
Perfluorotri	Perfluorotridecanoic acid (PFTrDA)		2.0		ND
Perfluorour	Perfluoroundecanoic acid (PFUnDA)		1.0		ND

Comments:

	n 100ppt	Approval date:
	sample require dilution for compounds that measured greater than 100ppt	Lacio Muneca
Final Report	Sample require dilution	Approved by:

10/29/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received

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Page 3 of 22



Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

10/21/2020

Lab No.: E21001118004

Date Received:

Method: EPA 537.1 - PFAS

Date Collected: 10/20/2020

10/22/2020 Field ID: FB006-0015-TP06 Submitted By: Shawn Lowman Date Analyzed: MCL Result <u>RL</u> Contaminant 2.0 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) ND 1.0 4,8-dioxa-3H-perfluorononanoic acid (ADONA) ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 ND Perfluorodecanoic acid (PFDA) 1.0 ND 2.0 Perfluorododecanoic acid (PFDoA) ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 ND Perfluorohexanoic acid (PFHxA) 1.0 ND Perfluorononanoic acid (PFNA) 2.0 ND

-							
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Approved by: Leadin Muneem Approval date: 10/27/20

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Telephone: (443) 681 -3857

Perfluorooctanesulfonic acid (PFOS)

Perfluorotetradecanoic acid (PFTDA)

Perfluorotridecanoic acid (PFTrDA)

Perfluoroundecanoic acid (PFUnDA)

Perfluorooctanoic acid (PFOA)

Fax: (443) 681-4507

Page 4 of 22

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1.0

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ND

ND

ND

ND

ND

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

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Bottle No.: 006-0015-7407 Pla	Plant/Site Name: Uesta, inster	Wells 9, 10	County: Larroll
Location: Plant	Sample Source:	ource: Post View Ct	Westninster Town or City
Collector/ID: Shum Lowman	759200	Phone No.:	410 394 7884
006 0015 00 County System No.	S 1 0 0 9 C	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	30 Il 50 mm pm Time Collected
Field Data: pH 6.8	Free CI:	3.0 Тота	Total CI: 3. 1
Sample Type: Drinking water Private Community Non-Community	□ Landfill □ Sov □ Stream □ Dis	□ Source (water) □ Distribution (treated) ☑ Water Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: TSDWA DNI	□ NPDES □ RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	\
☐ EPA Method 515.3 (Herbicides) ☐ EPA Method 525.2 (Pesticides)	☐ Field Blank ☐ Field Blank	☐ Sodium thiosulfate	
		□ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	38
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMS	i= i=	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8260 (VOCs) 537.1 P.F.45	OF FIELD Blank D ELVIPORAT Blank	Trizas Green	
E21001118013 E21001118013 Received: 10/21/2020 EPA 537.1 Organics 006-0015-TP07	E21001118014 E21001118014 Received: 10/21/2020 EPA 537 Organics FB006-001		
8			
Remarks:			
Lab Supervisor:		Date Re	Date Reported:

MDH98 (02/18)

Phone: (443) 681-3857

•Fax: (443) 681-4507

ORIGINAL - LABORATORY



Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001118013

Method: EPA 537.1 - PFAS

Date Collected: 10/20/2020 Date Received: 10/21/2020 Field ID: 006-0015-TP07

Field ID: 006-0015-TP07 Submitted By: Shawn Lowman	nan	Date Analyzed: 10/27/2020	10/27/2020
Contaminant	R	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		QN
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		QN
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		QN
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		QN
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		QN
Perfluorobutanesulfonic acid (PFBS)	1.0		6.49
Perfluorodecanoic acid (PFDA)	1.0		QN
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ΩN
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.61
Perfluorononanoic acid (PFNA)	2.0		ΩN
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		2.00
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		QN

Comments:

Approval date: 10/29/2020	
Salis Muses	
Sacio	
Approved by:	

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Method: EPA 537.1 - PFAS

Lab No.: E21001118014

Date Received: 10/21/2020 Field ID: FB006-0015-TP07

Date Collected: 10/20/2020

Field ID: FBU06-0015-1707 Submitted By: Shawn Lowman	lan	Date Analyzed:	10/27/2020
Contaminant	묎	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		QN
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0	9	ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		QN
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		QN

Comments:

Manne	
Xaria	
Approved by:	

Approval date: 10/29/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received

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Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C KB (0[11]20

LABORATORY ANALYSIS REQUEST FORM

	Please write legibly	legibly	
Bottle No.: 006-0015-705 Pla	Plant/Site Name: Westminster	inster Well S	County: Corroll
Location: Plant	Sample Source:	nurce: Krisers Church Rd	Westminster Town or City
Collector/ID: Shaw Lounn	75 92 00	Ohone No.	4882 166014
		T /	
0 0 6 0 0 1 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 0 0 1 S	0 S 10 / 30/2030	19 15 amon
ta: pH	ree CI:		Total CI:
Sample Type: Drinking water	□ Landfill □ Sou □ Stream □ Dis □ Soil/Sediment	□ Source (water) □ Distribution (treated) ☑ Water Treatment Plant POE	□ Oil □ Solid □ Other
□ Non-Community Specify Program: □ SDWA □ N	□ NPDES □ RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	_ Field Blank	□ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	0
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
区 EPA Method 9260 (VOCs) 537.1 PPAS	CAFIELD Blank [] Equipment Blank	B Trizna breen	
E21001118015 E21001118015 Received: 10/21/2020 EPA 537.1 Organics 006-0015-TP05	■ -	118016 10/21/2020 EPA 537.1 FB006-0015-TPC	
	-		
Remarks:			
Lab Supervisor:		Date R	Date Reported:
•Phone:	Phone: (443) 681-3857	•Fax: (443) 681-4507	



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MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001118015

Date Collected: 10/21/2020 006-0015-TP05 Date Received: Field ID:

Method: EPA 537.1 - PFAS

10/20/2020

10/27/2020 Result $\frac{1}{2}$ 2 9 9 9 Date Analyzed: 1.0 2.0 2.5 1.0 묎 2.0 3.0 Shawn Lowman 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) Submitted By: Hexafluoropropylene oxide dimer acid (HFPO-DA) 4,8-dioxa-3H-perfluorononanoic acid (ADONA) Contaminant

2.18

1.0

Perfluorobutanesulfonic acid (PFBS)

9

1.0	g
2.0	QN
2.0	ND
1.0	3.79
1.0	1.79
2.0	ND
2.0	4.18
1.0	6.14
1.0	ND
2.0	ND
1.0	Q
	2.0 2.0 1.0 2.0 2.0 1.0 1.0

Comments:

Approval date: 10/29/2020	
Numeron	
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Approved by:	

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MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001118016

Method: EPA 537.1 - PFAS

10/20/2020 Shawn Lowma Date Collected: Submitted By: S ed: 10/21/2020 FB006-0015-TP05 Date Received: Field ID: FB0

rield iU: rb000-0013-1703 Submitted by: Shawn Lowman	nar	Date Analyzed: 10/27/2020	10/27/2020
Contaminant	뮙	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		QN
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

proval date: 10/29/2020	
Approval date	
Hunesen	
Sacio	
Approved by:	

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MDH - Laboratories Administration
Division of Environmental Chemistry
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1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

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sottle No.: 006-0015-1103 Plan	Plant/Site Name: Westminster	Well 4	County: Corroll
ocation: Pleat	Sample Source:	irce: Business Phuny Street	Westninster Town or City
Collector/ID: Shown Lowner	75 9200	Phone No.:	4.886.786.014
0	S 10009	03 10 120/2030	1340 amfai
Godiny System No.	ree CI:	d Total CI:	1.9
sample Type: □ Private □ Community □ Non-Community	□ Landfill □ Sour □ Sour □ Stream □ Dist □ Soil/Sediment □ Wat	□ Source (water) □ Distribution (treated) □ Water Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: SDWA NF	□ NPDES □ RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method 8260 (VOGs) 537.1	OF Field Blank Equipment Blank	B Triang breen	
		BB EPA 537.1 20 EPA 537.1 FB006-0015-TPC	
Remarks:			

Lab Supervisor:

Date Reported:



Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001118017

ved: 10/21/2020 006-0015-TP03 Date Received: Field ID: 006

Method: EPA 537.1 - PFAS

Date Analyzed: Shawn Lowman 10/20/2020 Date Collected: Submitted By:

Field ID: 006-0015-TP03 Submitted By: Shawn Lowman	lan	Date Analyzed: 10/27/2020	10/27/2020
Contaminant	묎	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		5.77
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		2.27
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.45
Perfluorohexanoic acid (PFHxA)	1.0		3.71
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		2.98
Perfluorooctanoic acid (PFOA)	1.0		3.93
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

ıl date: 10/29/2020	
Approval date:	
Manner	
Sacio	
Approved by:	

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MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001118018

Method: EPA 537.1 - PFAS

10/20/2020 Date Collected: 10/21/2020 Date Received:

Field ID: FB006-0015-TP03 Submitted By: Shawn Lowman	an	Date Analyzed: 10/27/2020	10/27/2020
Contaminant	Ш	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		NO

Comments:

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Sako	
Approved by:	,

Approval date: 10/29/2020

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ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

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Temperature Blank: 0.0

LABORATORY ANALYSIS REQUEST FORM

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Bottle No.: 006 - 0015 - TPO2 Pla	Plant/Site Name: Westminste	Vell 3	County: Curroll
Location: Plant	Sample Source:	urce: Old Meadow Brance	Luesta.inster Town or City
Collector/ID: Shews Lowmen	759±00	Phone No.:	489246014
Z	0 0 0 1 S P P P P P P P P P P P P P P P P P P	7 / 10 / 20 /20 30 Plant No. Date Collected	1:05 ampm Time Collected
Field Data: pH 6, 6	Free CI:	i. 6 Total CI:	ci: 1, 6
Sample Type: Drinking water Drivate Dr	□ Landfill □ Sou□ Stream □ Dis	□ Source (water) □ Distribution (treated) ☑ Water Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: SDWA NI	□ NPDES □ RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 515.3 (☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N)	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
正 EPA Method-8269 (VOCs) 537. /	EFFELD Blank D Equipment Blant	B Trizma Green	
E21001118019 Received: 10/21/2020 EPA 537.1 Organics 006-0015-TP02	E2100118020 F21001118020 Received: 10/21/2020 EPA 537.1 Organics FB006-0015-TPC	00 20 EPA 537.1 FB006-0015-TPC	
Lab Supervisor:		Date Reported:	orted:
• Phone:	• Phone: (443) 681-3857	•Fax: (443) 681-4507	



Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001118019

10/21/2020

Method: EPA 537.1 - PFAS

Date Received: 10/21/2020 Date Collected: 10/20/2020 Field ID: 006-0015-TP02 Submitted By: Shawn Lowman	пв	Date Analyzed: 10/28/2020	10/28/2020
Contaminant	묎	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		QN
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ΩN
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		QN
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluoronanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		QN
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND

Comments:

N

1.0

Perfluoroundecanoic acid (PFUnDA)

Approval date: 10/29/2020
Mineral
by: Keen Ne
Approved by:

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001118020

Method: EPA 537.1 - PFAS Date Collected: 10/20/2020 10/21/2020 Date Received: Field ID: FB0

Field ID: FB006-0015-TP02 Submitted By: Shawn Lowman	nan	Date Analyzed: 10/28/2020	10/28/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Number	
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Approved by:	

Approval date: 10/29/2020

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1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C KS 10/20

LABORATORY ANALYSIS REQUEST FORM

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	Please write legibly	legibly	
Bottle No.: DOG-0015-TAOI Pla	Plant/Site Name: Westmins te.	· Cranberry WTP	County: (1170 11
Location: Plant	Sample Source:	ource: Lucy by Mill RS	Westminster Town or City
Collector/ID: Shaw Lowmen	75 9200	Phone No.:	4886 446 014
		d 7	
O O O O System No.	0 6 0 0 1 5 S	0 1 10 12030 Plant No. Date Collected	1. 40 am fm
ta: pH	ree CI:		5.5
Sample Type: Drinking water	□ Landfill □ Sou□ Stream □ Dis	☐ Source (water) ☐ Distribution (treated) ☐ Water Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: MSDWA DNI	□ NPDES □ RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N)	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method 9269 (VOCe) \$37.1 pFAS	OFFIELD Blank D Equipment Blank	Vellow	
E21001118021 Received: 10/21/2020 EPA 537.1 Organics 006-0015-TP01	E21001118022 EPA 537.1 Received: 10/21/2020 EPA 537.1 Pagenics	722 72020 EPA 537.1 FB006-0015-TPC	
Remarks:			
Lab Supervisor:		Date Reported:	orted:
• Phone:	Phone: (443) 681-3857ORIGINAL - I	857 • Fax: (443) 681-4507 ORIGINAL - LABORATORY	



Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001118021

Method: EPA 537.1 - PFAS

Date Collected: 10/20/2020 10/21/2020 Date Received: 10 Field ID: 006-001

Field ID: 006-0015-TP01 Submitted By: Shawn Lowman	u	Date Analyzed:	10/28/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		NO
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.03
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.12
Perfluorohexanoic acid (PFHxA)	1.0		1.81
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		NON
Perfluorooctanoic acid (PFOA)	1.0		1.86
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approval date: 10/29/2020	
Number	
Sacri	
Approved by:	

All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received

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Page 21 of 22

S:\EnviroFinal-Organics-PFAS.r_|



Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001118022

Method: EPA 537.1 - PFAS

10/20/2020 Shawn Lowma Date Collected: ed: 10/21/2020 FB006-0015-TP01 Date Received: Field ID: FB0

riela i.D.: FBOU6-0015-1P01 Submitted By: Shawn Lowman	ıan	Date Analyzed: 10/28/2020	10/28/2020
Contaminant	N N	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		QN
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Number	
Sacio	
Approved by:	

Approval date: 10/29/2020

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Page 22 of 22

	State of Maryla MDH - Laboratories Adr Division of Environment DRGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARYI BORATORY ANALYSI Please write le	ministration tal Chemistry L LABORATORY enue LAND 21205	nperature Blank:0.0 °C {B 0 21\29
Bottle No.: 006-0015-7910 Pla		oster Gesell	County: Careall
Location: Plant			
	Sample Soi	urce: 706 Agricultural Center	Town or City
Collector/ID: Shawn Lowman	007651	Phone No.:	4102947884
0 0 6 0 0 1 5 0 0 County System No. Field Data: pH 7.7		10 20 20 Plant No. Date Collected	30 935 ampm Time Collected
□ Private □ □ Community □ Non-Community □ Specify Program: □ SDWA □ N	Stream Dist	rce (water) tribution (treated) er Treatment Plant POE CWA CERCLA	
☐ Other Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	Comment
EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
□ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasio	
EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8260 (VOCs) 537.1 <i>PFAS</i>	O Equipment Alank	IN Trizma Yellow	
E21001118005 Received: 10/21/2020 EPA 537.1 Organics 006-0015-TP10	E21001118006 Received: 10/21/202 Organics		



Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001118005

Method: EPA 537.1 - PFAS

Date Received: 10/21/2020 Date Collected: 10/20/2020

Field ID:	006-0015-TP10	Submitted By:	Shawn Lowman	n	Date Analyzed:	10/22/2020	
Contamina	ant			RL	MCL	Result	
1-chloroeic	osafluoro-3-oxaundecane-1-s	ulfonic acid (11Cl-P	F3OUdS)	2.0		ND	
4,8-dioxa-3	BH-perfluorononanoic acid (AD	ONA)		1.0		ND	
9-chlorohe	xadecafluoro-3-oxanonane-1-	sulfonic acid (9Cl-P	F3ONS)	2.0		ND	
Hexafluoro	propylene oxide dimer acid (H	FPO-DA)		1.0		ND	
N-ethyl per	fluorooctanesulfonamidoaceti	acid (N-EtFOSAA)	2.5		ND	
N-methyl p	erfluorooctanesulfonamidoace	tic acid (N-MeFOS	AA)	3.0		ND	
Perfluorobu	utanesulfonic acid (PFBS)			1.0		1.50	
Perfluorode	ecanoic acid (PFDA)			1.0		ND	
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND	
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND	
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		2.28	
Perfluorohe	exanoic acid (PFHxA)			1.0		2.88	
Perfluorono	onanoic acid (PFNA)			2.0		ND	
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND	
Perfluorood	etanoic acid (PFOA)			1.0		3.53	
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND	
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND	

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C	o	m	m	е	n	ιs	١

Approval date: Approved by:

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Telephone: (443) 681 -3857

Perfluoroundecanoic acid (PFUnDA)

Fax: (443) 681-4507

1.0

ND

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Lab No.: E21001118006

Method: EPA 537.1 - PFAS

Date Received:

10/21/2020

Date Collected: 10/20/2020

Field ID: FB006-0015-TP10 Submitted By: Shawn Lowman

Date Analyzed: 10/22/2020 MCL Contaminant RL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 ND Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND 2.0 Perfluoroheptanoic acid (PFHpA) ND Perfluorohexanesulfonic acid (PFHxS) 1.0 ND Perfluorohexanoic acid (PFHxA) 1.0 ND Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 ND Perfluorotetradecanoic acid (PFTDA) 1.0 ND 2.0 Perfluorotridecanoic acid (PFTrDA) ND Perfluoroundecanoic acid (PFUnDA) 1.0 ND

Comments	
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Send Report to:	State of Maryl MDH - Laboratories Ad Division of Environmen	ministration	mperature Blank:0_0°C {\color=0.00000000000000000000000000000000000
	ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	enue	
L	ABORATORY ANALYS	IS REQUEST FORM	
	Please write I	legibly	
Bottle No.: <u>006-0015-7704</u> Pl	ant/Site Name: Westmin	urce: <u>Center St.</u>	County: Laro 11
		urce: <u>Center St</u> . Street	Westminster Town or City
Collector/ID: Shawn Lownson	00765	Phone No.:	410 294 7884
0 0 6 0 0 1 5 0 6 County System No.		0 4 10 / 30 /20 Plant No. Date Collected	30 955 ampm Time Collected
Field Data: pH6_8	Free CI:	, 6 Tot	ral CI: 1, 6
□ Private □	Stream Dist	rce (water) tribution (treated) er Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: ☑ SDWA □ N	PDES RCRA	□ CWA □ CERCLA	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
□ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
□ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
□ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
□ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasio☐ Sodium thiosulfate	С
□ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
□ EPA Method 8270 (Semi-Volatiles) □ Pesticides □ Aroclors		☐ Sodium thiosulfate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
	Scield Blank Equipment Blank	X Trizna Yellow	
E21001118007 Received: 10/21/2020 EPA 537.1 Organics 006-0015-TP04	E21001118008 Received: 10/21/2020 Organics		



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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001118007

Method: EPA 537.1 - PFAS

 Date Received:
 10/21/2020
 Date Collected:
 10/20/2020

 Field ID:
 006-0015-TP04
 Submitted By:
 Shawn Lowman
 Date Analyzed:
 10/24/2020

 Contaminant
 RL
 MCL
 Result

Total D. Good Cold 11 C. Submitted Dy. Shawii Eov	/THGH	Dute / triary	2CG: 10/2 1/2020	
<u>Contaminant</u>	RL	MCL	Result	
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		· ND	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND	
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorobutanesulfonic acid (PFBS)	1.0		2.91	
Perfluorodecanoic acid (PFDA)	1.0		ND	
Perfluorododecanoic acid (PFDoA)	2.0		ND	
Perfluoroheptanoic acid (PFHpA)	2.0		8.20	
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.97	
Perfluorohexanoic acid (PFHxA)	1.0		19.98	
Perfluorononanoic acid (PFNA)	2.0		ND	
Perfluorooctanesulfonic acid (PFOS)	2.0		7.29	
Perfluorooctanoic acid (PFOA)	1.0		8.16	
Perfluorotetradecanoic acid (PFTDA)	1.0		ND	
Perfluorotridecanoic acid (PFTrDA)	2.0		ND	
Perfluoroundecanoic acid (PFUnDA)	1.0		ND	

Comments:

Approved by: Sadra Muneum Approval date: 10/27/20

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Lab No.: E21001118008

Method: EPA 537.1 - PFAS

Date Received:

10/21/2020

Date Collected: 10/20/2020

Field ID: FB006-0015-TP04 Submitted By: Shawn Lowman Date Analyzed: 10/24/2020

Jacob Colo II of Jacob Colo II of	**************************************	Date I tital	72001 10/21/2020	
Contaminant	RL	MCL	Result	
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND	
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorobutanesulfonic acid (PFBS)	1.0		ND	
Perfluorodecanoic acid (PFDA)	1.0		ND	
Perfluorododecanoic acid (PFDoA)	2.0		ND	
Perfluoroheptanoic acid (PFHpA)	2.0		ND	
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND	
Perfluorohexanoic acid (PFHxA)	1.0		ND	
Perfluorononanoic acid (PFNA)	2.0		ND	
Perfluorooctanesulfonic acid (PFOS)	2.0		ND	
Perfluorooctanoic acid (PFOA)	1.0		ND	
Perfluorotetradecanoic acid (PFTDA)	1.0		ND	
Perfluorotridecanoic acid (PFTrDA)	2.0		ND	
Perfluoroundecanoic acid (PFUnDA)	1.0		ND	

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Approval date: Approved by:

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Send Report to:	State of Maryl MDH - Laboratories Ad Division of Environmen ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	ininistration ital Chemistry LLABORATORY enue	nperature Blank: <u>0.0</u> °C と良いに				
LA	BORATORY ANALYS Please write I						
Bottle No.: 006-0015-709 Pl	ant/Site Name: Westm	inster Well 7	County: Larro N				
Location: Plant	Sample So	urce: Vin Jsor Dr. Street	West minster Town or City				
Collector/ID: Shaws Lowner	007	Phone No.:	410 294 7884				
0 0 6 0 0 1 5 0 0 County System No.		Plant No. Date Collected	20 (045 am)pm Time Collected				
Field Data: pH 7,7	Free CI:	7 Tota	al CI:				
Sample Type: Drinking water							
□ Other	PDES RCRA	□ CWA □ CERCLA	☐ Consumer Products				
Test Requested	Field & Trip Blank	Preservative Used	Comment				
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate					
EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate					
□ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate					
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite					
□ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate					
□ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride					
□ EPA Method 8270 (Semi-Volatiles) □ Pesticides □ Aroclors		☐ Sodium thiosulfate					
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate					
EPA Method 8280 (VOCs) 537.1	S Field Blank Equipment Blank	W Trizma Yellow					
E21001118009 Received: 10/21/2020 EPA 537.1 Organics 006-0015-TP08	E21001118010 Received: 10/21/202 Organics						



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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001118009

Method: EPA 537.1 - PFAS

Date Received:

10/21/2020

Date Collected: 10/20/2020

Field ID: 006-0015-TP08 Submitted By: Shawn Lowman

Date Analyzed: 10/24/2020 Contaminant RL MCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 4.94 Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 ND Perfluorohexanoic acid (PFHxA) 1.0 ND Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 2.24 Perfluorooctanoic acid (PFOA) 1.0 2.00 Perfluorotetradecanoic acid (PFTDA) 1.0 ND Perfluorotridecanoic acid (PFTrDA) 2.0 ND Perfluoroundecanoic acid (PFUnDA) 1.0 ND

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Approved by: Approval date:

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Lab No.: E21001118010

Method: EPA 537.1 - PFAS

Date Received:

10/21/2020

Date Collected: 10/20/2020

Field ID:	FB006-0015-TP08	Submitted By: Shaw	n Lowman	Date Analy:	zed: 10/24/2020	
Contamin	ant		RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaundecane-1	-sulfonic acid (11CI-PF3OU	ldS) 2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanonane-	1-sulfonic acid (9CI-PF3ON	S) 2.0		ND	
Hexafluor	opropylene oxide dimer acid	(HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamidoac	etic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonamidoa	acetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFHxS)		1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND	

\mathbf{c}			
1 -1	 	-	

Approval date: Approved by:

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Telephone: (443) 681 -3857

Fax: (443) 681-4507

Page 10 of 22

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Mary MDH - Laboratories Ad Division of Environmer ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	Iministration ntal Chemistry LLABORATORY renue	nperature Blank: <u>0.0</u> °C KB にしなりな
L	ABORATORY ANALYS Please write		
Bottle No.: 006-0015-TP09 P			
Mr.	lant/Site Name: Westand	urce: Rochland Street	County: Carroll Westminster
Collector/ID: Shawn Lowns			Fown or City 4102947884
0 0 6 0 1 5 0 E		7 Plant No. 10 / 30 /20	20 (120 am/pm
Field Data: pH 7.9	Free CI:	3. 4 Tota	al CI: 3, 4
□ Private □	Stream □ Dis	arce (water) tribution (treated) ter Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: ☑ SDWA ☐ N	IPDES □ RCRA	□ CWA □ CERCLA	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
□ EPA Method 504.1 (EDB/DBCP)	□ Field Blank	☐ Sodium thiosulfate	
□ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
□ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
□ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8260 (VOCs) 537.1 PFA5	DE Equipment Blank	Yellow Yellow	
E21001118011 Received: 10/21/2020 EPA 537.1 Organics 006-0015-TP09	E2100111801; Received: 10/21/202	2	



Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001118011

Method: EPA 537.1 - PFAS

Date Received: 10

10/21/2020

Date Collected: 10/20/2020

Field ID: 006-0015-TP09 Submitted By: Shawn Lowman Date Analyzed: 10/24/2020

Contaminant RL MCL Result

1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND

4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 1.10 Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 ND Perfluorohexanoic acid (PFHxA) 1.0 ND Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 ND

Comments:

Approved by: Leadra Munium

Approval date: 10 21/20

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Perfluorotetradecanoic acid (PFTDA)

Perfluorotridecanoic acid (PFTrDA)

Perfluoroundecanoic acid (PFUnDA)

Fax: (443) 681-4507

Page 11 of 22

1.0

2.0

1.0

S:\EnviroFinal-Organics-PFAS.rl

ND

ND

ND

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.



Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001118012

Method: EPA 537.1 - PFAS

Date Received:

10/21/2020

Date Collected: 10/20/2020

FB006-0015-TP09 10/24/2020 Field ID: Submitted By: Shawn Lowman Date Analyzed: Contaminant RL MCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 ND Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 ND Perfluorohexanoic acid (PFHxA) 1.0 ND Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 ND Perfluorotetradecanoic acid (PFTDA) 1.0 ND Perfluorotridecanoic acid (PFTrDA) 2.0 ND Perfluoroundecanoic acid (PFUnDA) 1.0 ND

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Approval date: Approved by:

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Send Report to:	State of Maryl MDH - Laboratories Adi Division of Environmen ORGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARY	ministration tal Chemistry L LABORATORY enue	perature Blank: <u>. 0.0</u> °C KB 11 (4 2>
LA	ABORATORY ANALYS Please write I		
Bottle No.: 006-0003-TP/2 Pl. Location: Plant	ant/Site Name: Hump	istead WTP 15	County: Carroll
Location: Plant	Sample So	urce: Shiloh Road	Humpstend Town or City
Collector/ID: Shows Lowner	9/93	Phone No.:	410294 7884
0 0 6 0 0 3 0 0 COunty System No.		Plant No. Date Collected	Time Collected
Field Data: pH 7.8	Free CI:	, 4 Tota	ICI: 1, 4
□ Private □	Stream Dis Soil/Sediment Wat	rce (water) tribution (treated) er Treatment Plant POE CWA CERCLA	☐ Oil ☐ Solid ☐ Other
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate☐	
EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 9260 (VOCs) \$37. / PFAS	Of Field Blank	De Trizan Yellow	
E21001229001 Received: 11/04/2020 EPA 537.1 Organics 006-0003-TP12	E21001229002 Received: 11/04/2020 Organics	2	
Remarks:Lab Supervisor:		Date Re	ported:/

Phone: (443) 681-3857

•Fax: (443) 681-4507





11/10/2020

Date Analyzed:

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

006-0003-TP12

Lab No.: E21001229001

Method: EPA 537.1 - PFAS

Date Received:

Field ID:

11/04/2020

Date Collected: 11/04/2020 Submitted By: Shawn Lowman

Contaminant RL MCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 2.25 Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND

Perfluorohexanesulfonic acid (PFHxS) 1.0 ND Perfluorohexanoic acid (PFHxA) 1.0 1.90 Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 1.52 Perfluorotetradecanoic acid (PFTDA) 1.0 ND Perfluorotridecanoic acid (PFTrDA) 2.0 ND

Comments:

Approved by:

Sacia Muneca

Approval date: 11/17/2020

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Telephone: (443) 681 -3857

Perfluoroundecanoic acid (PFUnDA)

Fax: (443) 681-4507

Page 1 of 10

1.0

S:\EnviroFinal-Organics-PFAS.r

ND





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001229002

Method: EPA 537.1 - PFAS

Date Received:

11/04/2020

Date Collected: 11/04/2020

	wn Lowman	Date Analy	zed: 11/11/2020	
Contaminant	<u>RL</u>	MCL	Result	-
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3O	UdS) 2.0		ND	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3OI	NS) 2.0		ND	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND	
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorobutanesulfonic acid (PFBS)	1.0		ND	
Perfluorodecanoic acid (PFDA)	1.0		ND	
Perfluorododecanoic acid (PFDoA)	2.0		ND	
Perfluoroheptanoic acid (PFHpA)	2.0		ND	
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND	
Perfluorohexanoic acid (PFHxA)	1.0		ND	
Perfluorononanoic acid (PFNA)	2.0		ND	
Perfluorooctanesulfonic acid (PFOS)	2.0		ND	
Perfluorooctanoic acid (PFOA)	1.0		ND	
Perfluorotetradecanoic acid (PFTDA)	1.0		ND	
Perfluorotridecanoic acid (PFTrDA)	2.0		ND	
Perfluoroundecanoic acid (PFUnDA)	1.0		ND	

Comments:

Approved by:

Approval date: 11/17/2020

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Send Report to:	MDH - Laboratories Adi MDH - Laboratories Adi Division of Environmen ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	ministration tal Chemistry LLABORATORY enue	KBII/4/20
LA	ABORATORY ANALYS Please write I		
Bottle No.: <u>006-0003-77⁰1</u> 3 pl	ant/Site Name: Hung:	stad Well 32	County:
Location: <u>flan</u> †	Sample So	urce: Wellsley Court	Humpstead Town or City
Collector/ID: Shown Lowmen	007	Phone No.:	410 294 7884
0 0 6 0 0 3 0 0 0 System No.	PWSID	1 3 Plant No. Date Collected	
Field Data: pH 6.7	Free CI:	Tota	ıcı: 1.4
□ Private □	Stream Dis	rrce (water) tribution (treated) ter Treatment Plant POE	□ Oil □ Solid
Specify Program: 🗹 SDWA 🗆 N	PDES RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP) ☐ EPA Method 508 [Aroclors (SCAN	☐ Field Blank ☐ Field Blank	☐ Sodium thiosulfate ☐ Sodium thiosulfate	
only) & Toxaphene]	I Tield Dialik	- Sodium imosunate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8269 (VOCe) 537./ PFA5	Of Field Blank	Yellow	
E21001229003 Received: 11/04/2020 EPA 537.1 Organics 006-0003-TP13	E210012290 Received: 11/04/20 Organics		
Remarks:] [
ab Supervisor: •Phone:	(443) 681-3857	Date Rep	ported:/





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001229003

Method: EPA 537.1 - PFAS

Date Received:

11/04/2020

Date Collected: 11/04/2020

006-0003-TP13 Field ID: Submitted By: Shawn Lowman Date Analyzed: 11/10/2020 Contaminant RL MCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 3.73 Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 ND Perfluorohexanoic acid (PFHxA) 1.0 3.73 2.0 Perfluorononanoic acid (PFNA) ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 4.26 Perfluorotetradecanoic acid (PFTDA) 1.0 ND Perfluorotridecanoic acid (PFTrDA) 2.0 ND Perfluoroundecanoic acid (PFUnDA) 1.0 ND

Comments:

Approved by:

Approval date: 11/17/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001229004

Method: EPA 537.1 - PFAS

Date Received:

11/04/2020

Date Collected: 11/04/2020

Submitted Ry

Field ID:	FB006-0003-TP13	Submitted By: Shawi	n Lowman	Date Analyzed	d: 11/11/2020
Contamir	nant		<u>RL</u>	MCL	Result
1-chloroei	cosafluoro-3-oxaundecane-1-s	ulfonic acid (11Cl-PF3OUc	dS) 2.0		ND
4,8-dioxa-	3H-perfluorononanoic acid (AD	OONA)	1.0		ND
9-chlorohe	exadecafluoro-3-oxanonane-1-	sulfonic acid (9CI-PF3ONS	3) 2.0		ND
Hexafluor	opropylene oxide dimer acid (H	FPO-DA)	1.0		ND
N-ethyl pe	rfluorooctanesulfonamidoaceti	c acid (N-EtFOSAA)	2.5		ND
N-methyl (perfluorooctanesulfonamidoace	etic acid (N-MeFOSAA)	3.0		ND
Perfluorob	outanesulfonic acid (PFBS)		1.0		ND
Perfluoroc	lecanoic acid (PFDA)		1.0		ND
Perfluoroc	lodecanoic acid (PFDoA)		2.0		ND
Perfluoroh	neptanoic acid (PFHpA)		2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)		1.0		ND
Perfluoroh	exanoic acid (PFHxA)		1.0		ND
Perfluoron	onanoic acid (PFNA)		2.0		ND
Perfluoroc	ctanesulfonic acid (PFOS)		2.0		ND
Perfluoroo	ctanoic acid (PFOA)		1.0		ND
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND
Perfluoroti	ridecanoic acid (PFTrDA)		2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Approval date: 11/17/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Send Report to:	State of Maryla MDH - Laboratories Adn Division of Environment DRGANICS ANALYTICAI 1770 Ashland Ave BALTIMORE, MARYI	ninistration al Chemistry L LABORATORY nue	kenlulz
LA	BORATORY ANALYSI Please write le		
Bottle No.: 006-0003-707 Pla	ant/Site Name: Humps	arce: 1555 Main St	County: Carroll
Location: Must	Sample Sou	arce: 1555 Main 5+	Town or Oity
Collector/ID: Shown Lowman	007	6 <u>5</u> L Phone No.: _	4102947884
0 0 6 0 0 3 0 0 0	9 6 0 0 0 3 PWSID	O D Date Collected	O 905 ampan Time Collected
Field Data: pH 8.2	Free CI:	Total	CI:
□ Private □ □ Community □ □ Non-Community	Stream Dist Soil/Sediment Wat	rce (water) tribution (treated) er Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: ZSDWA D N	PDES RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
□ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids) ☐ EPA Method 8270 (Semi-Volatiles)	□ Field Blank	☐ Ammonium chloride ☐ Sodium thiosulfate	
☐ Pesticides ☐ Aroclors ☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 6200 (VOCs) 537.1	DEFICIO Blank	Vellow	
E21001229005 Recelved: 11/04/2020 EPA 537.1 Organics 006-0003-TP02	E2100122900 Received: 11/04/202 Organics	e II	
Remarks: Lab Supervisor: Phone	: (443) 681-3857	Date Re •Fax: (443) 681-4507	ported:/





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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001229005

Method: EPA 537.1 - PFAS

Date Received:

11/04/2020

Date Collected: 11/04/2020

006-0003-TP02	Submitted By:	Shawn Lowmar	າ	Date Analyzed:	11/10/2020
ant_			RL	MCL	Result
osafluoro-3-oxaundecane-1-	sulfonic acid (11CI-P	F3OUdS)	2.0		ND
BH-perfluorononanoic acid (A	DONA)		1.0		ND
xadecafluoro-3-oxanonane-1	-sulfonic acid (9Cl-P	F3ONS)	2.0		ND
propylene oxide dimer acid (HFPO-DA)		1.0		ND
fluorooctanesulfonamidoace	tic acid (N-EtFOSAA)	2.5		ND
erfluorooctanesulfonamidoad	cetic acid (N-MeFOS	AA)	3.0		ND
utanesulfonic acid (PFBS)			1.0		4.13
ecanoic acid (PFDA)			1.0		ND
odecanoic acid (PFDoA)			2.0		ND
eptanoic acid (PFHpA)			2.0		2.97
exanesulfonic acid (PFHxS)			1.0		3.88
exanoic acid (PFHxA)			1.0		4.86
onanoic acid (PFNA)			2.0		ND
ctanesulfonic acid (PFOS)			2.0		5.89
tanoic acid (PFOA)			1.0		7.15
tradecanoic acid (PFTDA)			1.0		ND
decanoic acid (PFTrDA)			2.0		ND
ndecanoic acid (PFUnDA)			1.0		ND
	ant cosafluoro-3-oxaundecane-1- BH-perfluorononanoic acid (A xadecafluoro-3-oxanonane-1 propylene oxide dimer acid (fluorooctanesulfonamidoace	cosafluoro-3-oxaundecane-1-sulfonic acid (11CI-P BH-perfluorononanoic acid (ADONA) xadecafluoro-3-oxanonane-1-sulfonic acid (9CI-P propylene oxide dimer acid (HFPO-DA) fluorooctanesulfonamidoacetic acid (N-EtFOSAA) erfluorooctanesulfonamidoacetic acid (N-MeFOSA) utanesulfonic acid (PFBS) ecanoic acid (PFDA) eptanoic acid (PFHpA) exanesulfonic acid (PFHxA) onanoic acid (PFNA) ctanesulfonic acid (PFOS) ctanoic acid (PFOA) tradecanoic acid (PFTDA) decanoic acid (PFTDA)	cosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) BH-perfluorononanoic acid (ADONA) xadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) propylene oxide dimer acid (HFPO-DA) fluorooctanesulfonamidoacetic acid (N-EtFOSAA) erfluorooctanesulfonamidoacetic acid (N-MeFOSAA) utanesulfonic acid (PFBS) ecanoic acid (PFDA) edecanoic acid (PFDA) exanesulfonic acid (PFHxA) exanesulfonic acid (PFHxA) enanoic acid (PFNA) etanesulfonic acid (PFOS) etanoic acid (PFOA) tradecanoic acid (PFTDA) decanoic acid (PFTDA)	cosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.	cosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) 3H-perfluorononanoic acid (ADONA) Axadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) 2.0 propylene oxide dimer acid (HFPO-DA) fluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 erfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 utanesulfonic acid (PFBS) acanoic acid (PFDA) becanoic acid (PFDA) 2.0 exanesulfonic acid (PFHxS) exanesulfonic acid (PFHxS) acanoic acid (PFNA) conanoic acid (PFNA) conanoic acid (PFNA) conanoic acid (PFOS) ctanesulfonic acid (PFOA) tradecanoic acid (PFTDA) 1.0 ctanesulfonic acid (PFOS) ctanoic acid (PFOA) 1.0 tradecanoic acid (PFTDA) 1.0 tradecanoic acid (PFTDA) 2.0 ctanoic acid (PFTDA) 1.0 tradecanoic acid (PFTDA) 2.0

Comments:

Approved by:

Approval date: 11/17/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001229006

Method: EPA 537.1 - PFAS

Date Received:

11/04/2020

Date Collected: 11/04/2020

Field ID:	FB006-0003-TP02	Submitted By:	Shawn Lowman	n	Date Analyzed:	11/11/2020
Contamina	ant			<u>RL</u>	MCL	Result
1-chloroeid	osafluoro-3-oxaundecane-1-sul	fonic acid (11CI-P	F3OUdS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADC	NA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-su	Ifonic acid (9CI-Pi	F3ONS)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HF	PO-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic	acid (N-EtFOSAA)	2.5		ND
N-methyl p	erfluorooctanesulfonamidoaceti	c acid (N-MeFOS	AA)	3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	etanesulfonic acid (PFOS)			2.0		ND
Perfluorood	etanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 11/17/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Send Report to:	MDH - Laboratories Adm Division of Environments	ninistration	K3 11/12
	DRGANICS ANALYTICAI 1770 Ashland Ave	LABORATORY	
	BALTIMORE, MARYL		
LA	BORATORY ANALYSI	S REQUEST FORM	
	Please write le		
Bottle No.: <u>006-0003-770</u> 5 Pla Location: <u> </u>	ant/Site Name: Hongs	stead WTP8	County: Carroll
Location: Plant	Sample Sou	arce: 4009 bisesmount	Church Rd Humpstead
Collector/ID: Shawn Lowman	00 7651	Phone No.:	4102947884
0 0 6 0 0 3 0 0	PWSID F	O 5 II / Y /20 a	7 25 mpm Time Collected
Field Data: pH	Free CI:	Total	CI: 0. 4
Sample Type: ☑ Drinking water □	Landfill □ Sour	rce (water)	□ Oil
		ribution (treated)	□ Solid
ELECTRICAL PROPERTY.	Soil/Sediment Water	er Treatment Plant POE	□ Other
□ Non-Community	*		
Specify Program: □ SDWA □ N	PDES RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonlum chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 9260 (VOCs) \$37.1	Stield Blank	De Trizma Green	
E21001229007 Received: 11/04/2020 EPA 537.1 Organics 006-0003-TP06	E2100122900 Received: 11/04/20: Organics	8	
Remarks:			
3		1	1
Lab Supervisor:		Date Re	ported:/
•Phone:	: (443) 681-3857 ORIGINAL - L		

MDH98 (02/18)





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001229007

Method: EPA 537.1 - PFAS

Date Received:

11/04/2020

Date Collected: 11/04/2020

Field ID: 006-0003-TP05

Submitted By: Shawn Lowman Date Analyzed: 11/10/2020

ricia ib.	3ubilitted by: 3liawii Lov	VIIIaII	Date Allai	yzea: 11/10/2020	
Contamin	ant	RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-3	BH-perfluorononanoic acid (ADONA)	1.0		ND	
9-chlorohe	xadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluoro	propylene oxide dimer acid (HFPO-DA)	1.0		ND	
N-ethyl per	fluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	erfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)	1.0		4.39	
Perfluorode	ecanoic acid (PFDA)	1.0		ND	
Perfluorode	odecanoic acid (PFDoA)	2.0		ND	
Perfluorohe	eptanoic acid (PFHpA)	2.0		3.87	
Perfluorohe	exanesulfonic acid (PFHxS)	1.0		1.65	
Perfluorohe	exanoic acid (PFHxA)	1.0		10.50	
Perfluoron	onanoic acid (PFNA)	2.0		ND	
Perfluorood	ctanesulfonic acid (PFOS)	2.0		3.62	
Perfluorood	ctanoic acid (PFOA)	1.0		8.77	
Perfluorote	tradecanoic acid (PFTDA)	1.0		ND	
Perfluorotri	decanoic acid (PFTrDA)	2.0		ND	
Perfluorour	ndecanoic acid (PFUnDA)	1.0		ND	

Comments:

Approved by:

Sacia Minera

Approval date: 11/17/2020

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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001229008

Method: EPA 537.1 - PFAS

Date Received:

11/04/2020

Date Collected: 11/04/2020

Field ID: FB006-0003-TP0: Submitted By: Shawn Lowman Date Analyzed: 11/11/2020

Tield 10: 1 5000-0003-110: Submitted by: Shawii Ed	winaii	Date Arialy	zeu: 11/11/2020	
<u>Contaminant</u>	RL	MCL	Result	
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND	
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorobutanesulfonic acid (PFBS)	1.0		ND	
Perfluorodecanoic acid (PFDA)	1.0		ND	
Perfluorododecanoic acid (PFDoA)	2.0		ND	
Perfluoroheptanoic acid (PFHpA)	2.0		ND	
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND	
Perfluorohexanoic acid (PFHxA)	1.0		ND	
Perfluorononanoic acid (PFNA)	2.0		ND	
Perfluorooctanesulfonic acid (PFOS)	2.0		ND	
Perfluorooctanoic acid (PFOA)	1.0		ND	
Perfluorotetradecanoic acid (PFTDA)	1.0		ND	
Perfluorotridecanoic acid (PFTrDA)	2.0		ND	
Perfluoroundecanoic acid (PFUnDA)	1.0		ND	

Comments:

Approved by:

Sacia Muneca

Approval date: 11/17/2020

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Send Report to:	State of Marylar MDH - Laboratories Adm	inistration	erature Blank: <u>0.0</u> °C لاه مالالي ع
	Division of Environmenta PRGANICS ANALYTICAL 1770 Ashland Aven	LABORATORY	·
	BALTIMORE, MARYL		
LA	BORATORY ANALYSIS Please write le		
Bottle No.: <u>006-0003-7/08</u> Pla	nt/Site Name: Hamps7	tend WTP 11 C	ounty: <u>Carroll</u>
Location: Plant	Sample Sou	rce: 4119 Creswell Te,	1/uce Itump 5 tend
Collector/ID: Shawn Lowns		Phone No.: _	
O 0 6 0 0 3 0 0 0 System No.	6 0 0 0 3 PWSID	O 8 11 / 4 /20 2 Date Collected	Q 955 mpm Time collected
Field Data: pH	Free CI:	Total	CI:
Sample Type: Drinking water	Landfill □ Sour	ce (water)	□ Oil
□ Private □		ribution (treated)	□ Solid
☐ Community ☐ Non-Community	Soil/Sediment	er Treatment Plant POE	□ Other
Other	PDES RCRA	□ CWA □ CERCLA	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used Sodium thiosulfate	Comment
☐ EPA Method 504.1 (EDB/DBCP) ☐ EPA Method 508 [Aroclors (SCAN	☐ Field Blank ☐ Field Blank	☐ Sodium thiosulfate	
only) & Toxaphene]	I TIER BIATIK		
EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate ☐ HCL (6N)	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride ☐ Sodium thiosulfate	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		50dium tillosullate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method-9269 (VOGs) 5'37./	W Field Blank	DE Trizma	
I FAS		bieen	
E21001229009 Received: 11/04/2020 EPA 537.1 Organics 006-0003-TPO8	E210012290 Received: 11/04/ Organics	010	
	11-		
Romanica Jaca II DV a	11	54 m/m	
Remarks: Well 24 pumping	1 21 Jime of		
Lab Supervisor:		Date Re	ported:/
• Phone	: (443) 681-3857	●Fax: (443) 681-4507	

MDH98 (02/18)





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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001229009

Method: EPA 537.1 - PFAS

Date Received:

11/04/2020

Date Collected: 11/04/2020

Field ID: 006-0003-TP08 Submitted By: Shawn Lowman 11/10/2020 Date Analyzed: **Contaminant** RL MCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 6.32 Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 12.30 Perfluorohexanesulfonic acid (PFHxS) 1.0 52.40 Perfluorohexanoic acid (PFHxA) 1.0 19.50 Perfluorononanoic acid (PFNA) 2.0 3.08 Perfluorooctanesulfonic acid (PFOS) 2.0 235.00 Perfluorooctanoic acid (PFOA) 1.0 14.30 Perfluorotetradecanoic acid (PFTDA) 1.0 ND Perfluorotridecanoic acid (PFTrDA) 2.0 ND Perfluoroundecanoic acid (PFUnDA) 1.0 ND

Comments:

Approved by:

Approval date: 11/17/2020

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001229010

Method: EPA 537.1 - PFAS

Date Received: 11/04/2020

Date Collected: 11/04/2020

Field ID:	FB006-0003-TP08	Submitted By: Shav	vn Lowman	Date Analyzed:	11/14/2020
Contamin	<u>ant</u>		RL	MCL	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-sul	lfonic acid (11Cl-PF3Ol	JdS) 2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (ADC	DNA)	1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-su	ulfonic acid (9CI-PF3ON	IS) 2.0		ND
Hexafluord	propylene oxide dimer acid (HF	PO-DA)	1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic	acid (N-EtFOSAA)	2.5		ND
N-methyl p	erfluorooctanesulfonamidoaceti	c acid (N-MeFOSAA)	3.0		ND
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND
Perfluorod	ecanoic acid (PFDA)		1.0		ND
Perfluorode	odecanoic acid (PFDoA)		2.0		ND
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)		1.0		ND
Perfluorohe	exanoic acid (PFHxA)		1.0		ND
Perfluoron	onanoic acid (PFNA)		2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)		2.0		ND
Perfluorood	ctanoic acid (PFOA)		1.0		ND
Perfluorote	tradecanoic acid (PFTDA)		1.0		ND
Perfluorotri	decanoic acid (PFTrDA)		2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Approval date: 11/17/2020

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Send Report to:	State of Mary MDH - Laboratories Ad Division of Environmen ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	ministration stal Chemistry sL LABORATORY enue	Temperatu	re Blank: <u>3.0 °</u> c R4 1(15120
- L	ABORATORY ANALYS			
Bottle No.: 007 -0016-TP0/P	ant/Site Name: 70 W	V &F NIRTH	EA ₇ County	: CECIC
Bottle No.: 007-0016-TPO P	Sample So	urce: IROLLING	a mile	CN NORTHEAS,
Collector/ID: JOSEPH 6AY	884/ 10-	Phon	e No.: 4/09	4467324
O Q 7 O O / 6 O O O O O O O O O O O O O O O O	070016 PWSID	Plant No. Date Co	- /20 ½ d	7 %5 (m)pm Time Collected
Field Data: pH	Free CI:	0,7	Total CI:_	0,9
		rce (water) tribution (treated)	□ Oi □ Sc	il olid
✓ Community □ □ Non-Community	Soil/Sediment	ter Treatment Plant POE	E □ Ot	her
Specify Program: SDWA DOTHER	PDES RCRA	□ CWA, □ CER	CLA 🗆	Consumer Products
Test Requested	Field & Trip Blank	Preservative Use	d	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 508 [Aroclors (SCAN only)'& Toxaphene]	□ Field Blank	☐ Sodium thiosulfate		+
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite		,
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate mo☐ Sodium thiosulfate	nobasic	
□ EPA Method 552.2 (Haloacetic acids) □ EPA Method 8270 (Semi-Volatiles) □ Pesticides □ Aroclors	☐ Field Blank	☐ Ammonium chloride ☐ Sodium thiosulfate		
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic ad ☐ Sodium thiosulfate	oid	
EPA Method 8269 (VOCs)- 537-/	FIELBLANK	TRIS BAGE TRIS HEL		
E21001247001 Received: 11/05/2020 EPA 537.1 Organics 007-0016-TPO	E210012470 Received: 11/05/2			1
Remarks:				
Lab Supervisor:		I	ate Reported:	
•Phone:	(443) 681-3857 ORIGINAL - LA	•Fax: (443) 681-4507	,	

MDH98 (02/18)

12 210011110111

SAMPLE TESTED AS RECEIVED





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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001247001

Method: EPA 537.1 - PFAS

Date Received:

11/05/2020

Date Collected: 11/05/2020

Field ID: 007-0016-TP01 Submitted By: Gay Date Analyzed: 11/10/2020

Field ID:	007-0016-TP01	Submitted By: Gay		Date Analy	zed: 11/10/2020	
Contamin	ant		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaunde	ecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoi	c acid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxan	onane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dim	er acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfona	midoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfor	namidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (P	PFBS)	1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFD	90A)	2.0		ND	
Perfluoroh	eptanoic acid (PFHp	A)	2.0		ND	
Perfluoroh	exanesulfonic acid (F	PFHxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA	N)	1.0		1.84	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (P	FOS)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		2.39	
Perfluorote	etradecanoic acid (PF	FTDA)	1.0		ND	
Perfluorotr	idecanoic acid (PFTr	DA)	2.0		ND	
Perfluorou	ndecanoic acid (PFU	nDA)	1.0		ND	

Comments:

Approved by:

Sadia Muneca

Approval date: 11/17/2020

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Lab No.: E21001247002

Method: EPA 537.1 - PFAS

Date Received:

11/05/2020

Date Collected: 11/05/2020

Field ID: 007-0016-TP01FB

Submitted By: Gay

Date Analyzed: 11/14/2020

Field ID:	007-0016-TP01FB	Submitted By: Gay		Date Analy	zed: 11/14/2020	
Contamin	ant		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaundecane-	1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanonane	-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluord	ppropylene oxide dimer acid	(HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamidoac	etic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonamido	acetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFHxS)		1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND	

Comments:

Approved by:

Sadia Mureen

Approval date: 11/17/2020

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Send Report to:	State of Maryla: MDH - Laboratories Adm Division of Environmenta DRGANICS ANALYTICAL 1770 Ashland Aver BALTIMORE, MARYL	ninistration al Chemistry LABORATORY nue	RH 11/5/20
LA	BORATORY ANALYSI Please write le		
Bottle No.: 007-0016-TPA			
Location: LESCIE	Sample Sou	irce: 39 N ESLIE	Town or City
Collector/ID: JOSEPH 6AY	884/16	Phone No.:	410 446 7324
County System No.	70016 PWSID	Plant No. Date Collected	7. 15 Cm /pm Time Collected
Field Data: pH	Free CI:	Total	CI:
Private Dommunity Non-Community	Stream	rce (water) rribution (treated) er Treatment Plant POE	□ Oil □ Solid □ Other
Other			
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8900 (VOCs)	FIELD BLANK	TRIS BASE TRISHEL	
E21001247003 Received: 11/05/2020 EPA 537.1 Organics 007-0016-TP02	E21001247 Received: 11/05/ Organics		
Remarks:			
Lab Supervisor:		Date Re	ported:/

ORIGINAL - LABORATORY





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001247003

Method: EPA 537.1 - PFAS

Date Received:

11/05/2020

Date Collected: 11/05/2020

Field ID:	007-0016-TP02	Submitted By: Gay		Date Analy	yzed: 11/11/2020	
Contamin	ant		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaunde	ecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoi	c acid (ADONA)	1.0		ND	
9-chlorohe	xadecafluoro-3-oxan	onane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluord	propylene oxide dim	er acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfona	midoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfor	amidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (P	FBS)	1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFD	oA)	2.0		ND	
Perfluoroh	eptanoic acid (PFHp	A)	2.0		ND	
Perfluoroh	exanesulfonic acid (F	PFHxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA	·)	1.0		2.03	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (P	FOS)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		1.98	
Perfluorote	etradecanoic acid (PF	TDA)	1.0		ND	
Perfluorotr	idecanoic acid (PFTr	DA)	2.0		ND	
Perfluorou	ndecanoic acid (PFU	nDA)	1.0		ND	

Comments:

Approved by:

Approval date: 11/17/2020

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Lab No.: E21001247004

Method: EPA 537.1 - PFAS

Date Received:

11/05/2020

Date Collected: 11/05/2020

Field ID: 007-0016-TP02FB Submitted By: Gay

Date Analyzed: 11/11/2020

Field ID:	007-0016-1P02FB	Submitted By: Gay		Date Analy	/zed: 11/11/2020	
Contamin	ant		RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaundecane	-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid	(ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanonane	e-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluord	opropylene oxide dimer aci	d (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamidoa	cetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonamido	pacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFHxS	3)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND	

Comments:

Approved by:

Sadia Muneca

Approval date: 11/17/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Page 4 of 4

Send Report to:	State of Maryli MDH - Laboratories Adr Division of Environment ORGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARYI	mmistration tal Chemistry L LABORATORY enue	nperature Blank: <u>NIA</u> c No Temp Blank in Cooler AF 11/10/20
LA	BORATORY ANALYSI Please write Id		
Bottle No.: 001-6016-TPo1 Pl	ant/Site Name: LA	Jale	County: Allegany
Location: POSC WN	Sample Sou	Irce: Street	Town or City
Collector/ID: Holf 53237)		Phone No.:	4104467482
County System No.		Plant No. Date Collected	20 13/Sam/ph) Time Collected
Field Data: pH 7.2	Free CI:	Tota	al CI:
☐ Private ☐ ☐ Community ☐ Non-Community	Stream Dist	rce (water) tribution (treated) er Treatment Plant POE	☐ Oil ☐ Solid ☐ Other
Other	Field 9 Tite Plant	Duncan article Head	Comment
Test Requested EPA Method 504.1 (EDB/DBCP)	Field & Trip Blank ☐ Field Blank	Preservative Used	Comment
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasio☐ Sodium thiosulfate	;
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
□ FPA Method 524.2 (Volatiles) □ VOCS □ THMs □ PPAS 537, I	VarField Blank □ Trip Blank	□ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate Rel	
☐ EPA Method 8260 (VOCs)			
E21001268003 Received: 11/10/2020 EPA 537.1 Organics 0010016TP01	E21001268004 Received: 11/10/2020 Organics		
Remarks:			
Lab Supervisor:		Date Ro	eported:/

•Phone: (443) 681-3857

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001268003

Method: EPA 537.1 - PFAS

Date Received:

11/10/2020

Date Collected: 11/09/2020

Field ID:	0010016TP01	Submitted By: Holt		Date Analyzed:	11/14/2020
Contamin	ant		<u>RL</u>	MCL	Result
1-chloroeid	cosafluoro-3-oxaunde	ecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-	3H-perfluorononanoid	c acid (ADONA)	1.0		ND
9-chlorohe	xadecafluoro-3-oxan	onane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoro	propylene oxide dim	er acid (HFPO-DA)	1.0		ND
N-ethyl per	rfluorooctanesulfonar	midoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl p	erfluorooctanesulfon	amidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorob	utanesulfonic acid (P	FBS)	1.0		ND
Perfluorod	ecanoic acid (PFDA)		1.0		ND
Perfluorod	odecanoic acid (PFD	oA)	2.0		ND
Perfluoroh	eptanoic acid (PFHp	A)	2.0		ND
Perfluoroh	exanesulfonic acid (F	PFHxS)	1.0		ND
Perfluoroh	exanoic acid (PFHxA)	1.0		ND
Perfluoron	onanoic acid (PFNA)		2.0		ND
Perfluoroo	ctanesulfonic acid (P	FOS)	2.0		ND
Perfluoroo	ctanoic acid (PFOA)		1.0		ND
Perfluorote	tradecanoic acid (PF	TDA)	1.0		ND
Perfluorotr	idecanoic acid (PFTr	DA)	2.0		ND
Perfluorou	ndecanoic acid (PFU	nDA)	1.0		ND

Comments:

Approved by:

Approval date: 11/17/2020

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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001268004

Method: EPA 537.1 - PFAS

Date Received:

11/10/2020 FR0010016TP01

Date Collected: 11/09/2020

Field ID:	FB0010016TP01	Submitted By: Holt	,	Date Analyz	ed: 11/14/2020
Contamin	<u>ant</u>		RL	MCL	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-s	ulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-	3H-perfluorononanoic acid (AD	ONA)	1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-s	sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluord	ppropylene oxide dimer acid (H	FPO-DA)	1.0		ND
N-ethyl pe	rfluorooctanesulfonamidoacetic	acid (N-EtFOSAA)	2.5		ND
N-methyl p	erfluorooctanesulfonamidoace	tic acid (N-MeFOSAA)	3.0		ND
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND
Perfluorod	ecanoic acid (PFDA)		1.0		ND
Perfluorod	odecanoic acid (PFDoA)		2.0		ND
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)		1.0		ND
Perfluoroh	exanoic acid (PFHxA)		1.0		ND
Perfluoron	onanoic acid (PFNA)		2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		ND
Perfluoroo	ctanoic acid (PFOA)		1.0		ND
Perfluorote	tradecanoic acid (PFTDA)		1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Approval date: 11/17/2020

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Send Report to:	State of Maryla MDH - Laboratories Adr Division of Environment DRGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARYI	ninistration 1 al Chemistry L LABORATORY conuc	perature Blank: NIA 'C No Temp Blank in Cooks, AF II 10 20
LA	BORATORY ANALYSI Please write le		
Bottle No.: Oll-0004-TPol Pla	ant/Site Name: Frien	dsville	County: GARRETT
Location: POEC WTP	Sample Sou	Irce: Street	Town or City
Collector/ID: Holf 63237	t	Phone No.:	41044674372
County System No.	1101010141	O 1 1 / 9 /207 Plant No. Date Collected	Time Collected
Field Data: pH 7.5	Free CI:	1,2 Total	CI: 1.5
□ Private □ □ Community □ □ Non-Community	Stream Dist	rce (water) tribution (treated) or Treatment Plant POE	□ Oil □ Solid □ Other
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	21
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
□ VOCS □ THMs □ PPAS 533.1	¶ feld Blank □ Trip Blank	☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs)			
E21001268001 Received: 11/10/2020 EPA 537.1 Organics 0110004TP01	F21001268	BOO2 0/2020 EPA 537.1 FB0110004TPC	
temarks:			

•Phone: (443) 681-3857 •Fax: (443) 681-4507

Date Reported: ____

Lab Supervisor:





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001268001

Method: EPA 537.1 - PFAS

Date Received:

11/10/2020

Date Collected: 11/09/2020

Field ID:	0110004TP01	Submitted By: Holt		Date Analy:	zed: 11/14/2020	
Contamin	ant		RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaun	decane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononand	oic acid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxa	anonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide di	mer acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfon	amidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfo	onamidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid	(PFBS)	1.0		ND	
Perfluorod	ecanoic acid (PFD/	4)	1.0		ND	
Perfluorod	odecanoic acid (PF	DoA)	2.0		ND	
Perfluoroh	eptanoic acid (PFH	pA)	2.0		ND	
Perfluoroh	exanesulfonic acid	(PFHxS)	1.0		ND	
Perfluoroh	exanoic acid (PFH)	kA)	1.0		ND	
Perfluoron	onanoic acid (PFN/	4)	2.0		ND	
Perfluoroo	ctanesulfonic acid ((PFOS)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA	N)	1.0		1.24	
Perfluorote	etradecanoic acid (F	PFTDA)	1.0		ND	
Perfluorotr	idecanoic acid (PF	TrDA)	2.0		ND	
Perfluorou	ndecanoic acid (PF	UnDA)	1.0		ND	

Comments:

Approved by:

Approval date: 11/17/2020

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Lab No.: E21001268002

Field ID: FB0110004TP01

Method: EPA 537.1 - PFAS

Date Received:

11/10/2020

Date Collected: 11/09/2020

Submitted Bv: Holt

Date Analyzed: 11/14/2020

riela ib.	TBOTTOOO4TFOT Submitted by: Floit		Date Allai	yzeu: 11/14/2020	
Contamir	nant	RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid (ADONA)	1.0		ND	
9-chloroh	exadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dimer acid (HFPO-DA)	1.0		ND	
N-ethyl pe	erfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl	perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	outanesulfonic acid (PFBS)	1.0		ND	
Perfluoro	decanoic acid (PFDA)	1.0		ND	
Perfluoro	dodecanoic acid (PFDoA)	2.0		ND	
Perfluoroh	neptanoic acid (PFHpA)	2.0		ND	
Perfluoroh	nexanesulfonic acid (PFHxS)	1.0		ND	
Perfluoroh	nexanoic acid (PFHxA)	1.0		ND	
Perfluoror	nonanoic acid (PFNA)	2.0		ND	
Perfluoro	octanesulfonic acid (PFOS)	2.0		ND	
Perfluoro	octanoic acid (PFOA)	1.0		ND	
Perfluorot	etradecanoic acid (PFTDA)	1.0		ND	
Perfluorot	ridecanoic acid (PFTrDA)	2.0		ND	
Perfluorou	indecanoic acid (PFUnDA)	1.0		ND	

Comments:

Approved by:

Approval date: 11/17/2020

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	Division of Environmen ORGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARY	ıtal Chemistry LL LABORATORY enue	Rulli
LA	BORATORY ANALYS Please write I		
ottle No.: <u>006-000 3-7</u> 911 Pl	ant/Site Name: Hamps	tend WTP 14	County: Lurroll
ocation: Plant	Sample So	urce: Dakota	Humpstead Town or City
ollector/ID: Shew Lowner	00	765L Phone No.:	410-294-7884
0 0 6 0 0 0 3 0 0 0 County System No.	PWSID	1	9 196
eld Data: pH 8.2	Free CI:	Tota	ıcı:
□ Private □	Stream □ Dist Soil/Sediment □ Wat	trice (water) tribution (treated) ter Treatment Plant POE CWA CERCLA	□ Oil □ Solid □ Other □ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	241
EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
EPA Method 524.2 (Volatiles) □ VOCS □ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 9266 (VOCs) \$37,1	Field Blunk	G Trizma Green	
E21001288001 Received: 11/10/2020 EPA 537.1 Organics 0060003TP11	E210012880 Received: 11/10/2		
marks: Well 29 pumpin	at time		ported:/

ORIGINAL - LABORATORY





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001288001

Method: EPA 537.1 - PFAS

Date Received: 11/10/2020

Date Collected: 11/10/2020

Field ID:	0060003TP11	Submitted By: Lowman		Date Analy	zed: 11/17/2020	
Contamir	<u>iant</u>		RL	MCL	Result	
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)					ND	
4,8-dioxa-	3H-perfluorononanoic ac	id (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanona	ne-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dimer a	cid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamid	pacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonam	idoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	outanesulfonic acid (PFB	5)	1.0		5.92	
Perfluorod	lecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		5.11	
Perfluoroh	exanesulfonic acid (PFH	xS)	1.0		3.28	
Perfluoroh	exanoic acid (PFHxA)		1.0		6.94	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFO	5)	2.0		4.42	
Perfluoroo	ctanoic acid (PFOA)		1.0		7.63	
Perfluorote	etradecanoic acid (PFTD	A)	1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA	4)	1.0		ND	

Comments:

Approved by:

Sacia Muneca

Approval date: 11/18/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Page 1 of 10





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001288002

Method: EPA 537.1 - PFAS

Date Received: 11/10

11/10/2020

Date Collected: 11/10/2020

Field ID: FB0060003TP11 Submitted By: Lowman Date Analyzed: 11/17/2020

Fleid ID:	FB00600031P11	Submitted By: Lowman		Date Anal	yzea: 11/17/2020	
Contamin	nant		RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaundecane	e-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid	(ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanonan	e-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dimer ac	id (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamidoa	acetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonamid	oacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	outanesulfonic acid (PFBS)		1.0		ND	
Perfluorod	lecanoic acid (PFDA)		1.0		ND	
Perfluorod	lodecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFHx	S)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFTDA)	1.0		ND	
Perfluorotr	ridecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND	

Comments:

Approved by:

Sada Mureca

Approval date: 11/18/2020

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Send Report to:	State of Maryla MDH - Laboratories Adr Division of Environment	ninistration	Temperature Blank: 300°C		
	ORGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARYI	enue	11/10/20		
LA	BORATORY ANALYSI				
Bottle No.: <u>006-0003-TP</u> 03 Plant Location: <u>Flant</u>	ant/Site Name: Humps	tead WTP6	County: <u>Carroll</u>		
Location: Plant	Sample Sou	arce: 4217 Lower Beckle	eysville RS Hampstead		
Collector/ID: Shawn Lowman	007	Phone No.: _	410 294-7884		
0 0 6 0 0 3 0 0 County System No.	9 6 0 0 0 3 PWSID	Plant No. Date Collected	Time Collected		
Field Data: pH	Free CI:	. 3 Total	CI:/. 3		
□ Private □	Stream	rce (water) tribution (treated) er Treatment Plant POE	□ Oil □ Solid □ Other		
Specify Program: SDWA D N	PDES □ RCRA	□ CWA □ CERCLA	☐ Consumer Products		
Test Requested	Field & Trip Blank	Preservative Used	Comment		
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate			
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate			
☐ EPA Method 515.3 (Herbicldes)	☐ Field Blank	☐ Sodium thiosulfate			
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	111		
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate			
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride			
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate			
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate			
EPA Method 8260 (VOCs) \$37.1	OF Field Blunk	Dreen			
E21001288003 Received: 11/10/2020 EPA 537.1 Organics 0060003TP03	E210012880 Received: 11/10/2 Organics	1112			
Remarks:Lab Supervisor:			ported:/		

Phone: (443) 681-3857

•Fax: (443) 681-4507





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001288003

Method: EPA 537.1 - PFAS

Date Received:

11/10/2020

Date Collected: 11/10/2020

Field ID.

11/17/2020

Field ID:	0060003TP03	Submitted By: Lowman		Date Analy	zed: 11/17/2020	
Contamin	ant		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaundecar	ne-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic ac	id (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanona	ne-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND	
Hexafluord	opropylene oxide dimer a	cid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamide	pacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonami	doacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFB	5)	1.0		6.81	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		3.72	
Perfluoroh	exanesulfonic acid (PFH	xS)	1.0		2.66	
Perfluoroh	exanoic acid (PFHxA)		1.0		5.94	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFO	5)	2.0		4.83	
Perfluoroo	ctanoic acid (PFOA)		1.0		6.29	2
Perfluorote	etradecanoic acid (PFTD	4)	1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA	۸)	1.0		ND	

Comments:

Approved by:

Approval date: 11/18/2020

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Lab No.: E21001288004

Method: EPA 537.1 - PFAS

Date Received: 11/10/2020 Date Collected: 11/10/2020

Field ID:	FB0060003TP03	Submitted By:	Lowman		Date Analyz	zed: 11/17/2020	
Contamin	ant .			RL	MCL	Result	
1-chloroeid	osafluoro-3-oxaundecane-1-	sulfonic acid (11Cl-P	F3OUdS)	2.0		ND	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)				1.0		ND	
9-chlorohe	xadecafluoro-3-oxanonane-1-	-sulfonic acid (9Cl-P	F3ONS)	2.0		□ ND	
Hexafluoro	propylene oxide dimer acid (ł	HFPO-DA)		1.0		ND	
N-ethyl per	fluorooctanesulfonamidoacet	ic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	erfluorooctanesulfonamidoac	etic acid (N-MeFOS	AA)	3.0		ND	
Perfluorobu	utanesulfonic acid (PFBS)			1.0		ND	
Perfluorode	ecanoic acid (PFDA)			1.0		ND	
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND	
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND	
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND	
Perfluorohe	exanoic acid (PFHxA)			1.0		ND	
Perfluorono	onanoic acid (PFNA)			2.0		ND	
Perfluorood	tanesulfonic acid (PFOS)			2.0		ND	
Perfluorood	etanoic acid (PFOA)			1.0		ND	
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND	
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND	
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND	

Comments:

Approved by:

Approval date: 11/18/2020

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Send Report to:	State of Mary		perature Blank: 3:0 °C	
	MDH - Laboratories Administration Division of Environmental Chemistry			
	ORGANICS ANALYTICA 1770 Ashland Av	venue venue	fm 11/10/	
	BALTIMORE, MARY	YLAND 21205	7	
L	ABORATORY ANALYS Please write			
Bottle No.: 006-0003-7709 PI	ant/Site Name: Hampo	stead WTP 12	County: Carroll	
Location: Plant	Sample So	ource: 4990 Caddis Drive	e Humpstead Town or City	
22. 1		765L Phone No.: _		
0 0 6 0 3 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0) 6 0 0 0 3		20 amom Time Collected	
Field Data: pH 8.1	Free CI:	. S Total	1CI:_ 1.5	
	Landell E Cou	arce (water)		
		tribution (treated)	□ Oil □ Solid	
/		ter Treatment Plant POE		
□ Non-Community			-	
Specify Program: □SDWA □ N	DDEG - DCD 4		CI Community Designation	
Specify Program: ☐ SDWA ☐ N	PDES RCRA	□ CWA □ CERCLA	☐ Consumer Products	
Test Requested	Field & Trip Blank	Preservative Used	Comment	
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	1	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate		
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride		
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate		
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate		
EPA Method 8260 (VOGs) 537. /	& Field Blank	Green Green		
E21001288005 Received: 11/10/2020 EPA 537.1 Organics 0060003TP09	E210012880 Received: 11/10/20 Organics		*) - (4	
Remarks:		Data Par	ported: / /	
-F		Date Rep	oorted:/	

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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001288005

Method: EPA 537.1 - PFAS

Date Received:

11/10/2020

Date Collected: 11/10/2020

Field ID: 0060003TP09 Submitted By: Lowman Date Analyzed: 11/17/2020

Fleia ID:	00600031709	Submitted By: Lowman		Date Anai	yzea: 11/17/2020	
Contami	nant		RL	MCL	Result	
1-chloroe	icosafluoro-3-oxaundecan	e-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa	-3H-perfluorononanoic aci	d (ADONA)	1.0		ND	
9-chloroh	exadecafluoro-3-oxanona	ne-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND	
Hexafluor	ropropylene oxide dimer a	cid (HFPO-DA)	1.0		ND	
N-ethyl pe	erfluorooctanesulfonamido	pacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl	perfluorooctanesulfonami	doacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorol	butanesulfonic acid (PFBS	5)	1.0		9.16	
Perfluoro	decanoic acid (PFDA)		1.0		ND	
Perfluoro	dodecanoic acid (PFDoA)		2.0		ND	
Perfluorol	heptanoic acid (PFHpA)		2.0		3.67	
Perfluorol	hexanesulfonic acid (PFH)	xS)	1.0		1.58	
Perfluorol	hexanoic acid (PFHxA)		1.0		5.84	
Perfluoro	nonanoic acid (PFNA)		2.0		ND	
Perfluoro	octanesulfonic acid (PFOS	8)	2.0		ND	
Perfluoro	octanoic acid (PFOA)		1.0		2.79	
Perfluorot	tetradecanoic acid (PFTDA	A)	1.0		ND	
Perfluorot	tridecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	undecanoic acid (PFUnDA	۸)	1.0		ND	

Comments:

Approved by:

Sacia Muneca

Approval date: 11/18/2020

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Lab No.: E21001288006

Method: EPA 537.1 - PFAS

Date Received: 11/10/2020 Date Collected: 11/10/2020

EBUUCOUST DOG Submitted Bur Lauman Data Analyzadi 11/17/2020

Field ID:	FB0060003TP09	Submitted By: Lowman		Date Anal	yzed: 11/17/2020	
Contamin	ant		<u>RL</u>	MCL	Result	
1-chloroeid	cosafluoro-3-oxaundecane	-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid	(ADONA)	1.0		ND	
9-chlorohe	xadecafluoro-3-oxanonane	e-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluord	ppropylene oxide dimer acid	d (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamidoa	cetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonamido	pacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFHxS	3)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND	

Comments:

Approved by:

Approval date: 11/18/2020

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	_ABORATORY ANALYSI		
	Please write le		
		- W	Curall
Bottle No.: 006-0003-7P07	Plant/Site Name:	tui Tomphouse to	ounty:
Location: Plant	Sample Sou	arce: Boxwood Drive	Town or City
Collector/ID: Shown Lowne	00	765L Phone No.: _	410-294-7884
0 0 0 3 County System No.	PWSID	0 7 II / 10 /20 2	O 935 mpm Time Collected
Field Data: pH	Free CI:	Total	CI: 1.0
□ Non-Community	□ Stream □ Dist □ Soil/Sediment □ Wat NPDES □ RCRA	rce (water) ribution (treated) er Treatment Plant POE	□ Oil □ Solid □ Other
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acid	ls) ☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 9260 (VOCo) 537	1 DY Field Blunk	of Trizma	
E21001288007 Received: 11/10/2020 EPA 537.1 Organics 0060003TP07	E210012880(Received: 11/10/20 Organics	ng	
Remarks: Both Wells pu	mpiny at time of	sumple	
Lab Supervisor:	14 160		eported:/

Phone: (443) 681-3857

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001288007

Method: EPA 537.1 - PFAS

Date Received:

11/10/2020

Date Collected: 11/10/2020

Field ID: 0060003TP07

Submitted By: Lowman

Date Analyzed: 11/17/2020

Field ID:	00600031P07	Submitted By: Lowman		Date Anal	yzed: 11/17/2020
Contamir	nant_		RL	MCL	Result
1-chloroei	cosafluoro-3-oxaundecar	ne-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-	3H-perfluorononanoic ac	id (ADONA)	1.0		ND
9-chlorohe	exadecafluoro-3-oxanona	ne-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluor	opropylene oxide dimer a	cid (HFPO-DA)	1.0		ND
N-ethyl pe	rfluorooctanesulfonamide	pacetic acid (N-EtFOSAA)	2.5		ND
N-methyl	perfluorooctanesulfonam	idoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorob	outanesulfonic acid (PFBS	5)	1.0		4.06
Perfluoroc	lecanoic acid (PFDA)		1.0		ND
Perfluoroc	lodecanoic acid (PFDoA)		2.0		ND
Perfluoroh	neptanoic acid (PFHpA)		2.0		2.59
Perfluoroh	nexanesulfonic acid (PFH	xS)	1.0		1.25
Perfluoroh	nexanoic acid (PFHxA)		1.0		4.99
Perfluoron	onanoic acid (PFNA)		2.0		ND
Perfluoroc	octanesulfonic acid (PFO	5)	2.0		ND
Perfluoroc	octanoic acid (PFOA)		1.0		2.97
Perfluorote	etradecanoic acid (PFTD	A)	1.0		ND
Perfluoroti	ridecanoic acid (PFTrDA)		2.0		ND
Perfluorou	ndecanoic acid (PFUnDA	4)	1.0		ND

Comments:

Approved by:

Approval date: 11/18/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001288008

Method: EPA 537.1 - PFAS

Date Received:

11/10/2020

Date Collected: 11/10/2020

Field ID: FB0060003TP07 Submitted By: Lowman Date Analyzed: 11/17/2020

T DOOGOOGT FOT Submitted by: Lowman		Date Allai	yzed: 11/17/2020	
nant_	RL	MCL	Result	
cosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
3H-perfluorononanoic acid (ADONA)	1.0		ND	
exadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
opropylene oxide dimer acid (HFPO-DA)	1.0		ND	
rfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND	
perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND	
outanesulfonic acid (PFBS)	1.0		ND	
lecanoic acid (PFDA)	1.0		ND	
lodecanoic acid (PFDoA)	2.0		ND	
neptanoic acid (PFHpA)	2.0		ND	
exanesulfonic acid (PFHxS)	1.0		ND	
exanoic acid (PFHxA)	1.0		ND	
onanoic acid (PFNA)	2.0		ND	
ctanesulfonic acid (PFOS)	2.0		ND	
ctanoic acid (PFOA)	1.0		ND	
etradecanoic acid (PFTDA)	1.0		ND	
ridecanoic acid (PFTrDA)	2.0		ND	
ndecanoic acid (PFUnDA)	1.0		ND	
	cosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 3H-perfluorononanoic acid (ADONA) exadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) expropylene oxide dimer acid (HFPO-DA) erfluorooctanesulfonamidoacetic acid (N-EtFOSAA) erfluorooctanesulfonamidoacetic acid (N-MeFOSAA) eutanesulfonic acid (PFBS) elecanoic acid (PFDA) elecanoic acid (PFDA) exanesulfonic acid (PFHxS) exanoic acid (PFHxA) enanoic acid (PFNA) ectanesulfonic acid (PFOS) ectanoic acid (PFOA) etradecanoic acid (PFOA) etradecanoic acid (PFTDA) eidecanoic acid (PFTDA)	cosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 3H-perfluorononanoic acid (ADONA) 2.0 3H-perfluorononanoic acid (ADONA) 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.	cosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) 3H-perfluorononanoic acid (ADONA) 3H-perfluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) 2.0 3H-perfluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) 2.0 3H-perfluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) 2.0 3H-perfluoro-3-oxanonane-1-sulfonic acid (N-EFOSAA) 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	taint cosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) 2.0 ND 3H-perfluorononanoic acid (ADONA) 1.0 ND exadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) 2.0 ND example oxide dimer acid (HFPO-DA) 1.0 ND example oxide dimer acid (N-EtFOSAA) 3.0 ND example oxide exide (N-MeFOSAA) 3.0 ND example oxide exide (PFBS) 1.0 ND example oxide (PFDA) 1.0 ND example oxide (PFDA) 1.0 ND example oxide (PFDA) 1.0 ND example oxide (PFHpA) 2.0 ND example oxide (PFHpA) 1.0 ND example oxide (PFHxA) 1.0 ND example oxide (PFNA) 1.0 ND example oxide (PFNA) 1.0 ND example oxide (PFNA) 1.0 ND example oxide (PFOS) 1.0 ND example oxide (PFOA) 1.0 ND example oxide (PFOA) 1.0 ND example oxide (PFDA) 1.0 ND example oxide oxide (PFDA) 1.0 ND example oxide (PFDA) 1.0 ND example oxide (PFTDA) 1.0 ND example oxide oxid

Comments:

Approved by:

Sacia Muneca

Approval date: 11/18/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Page 8 of 10

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Send Report to:	State of Marylan MDH - Laboratories Adm Division of Environmenta DRGANICS ANALYTICAL 1770 Ashland Aver BALTIMORE, MARYL	ninistration al Chemistry L. LABORATORY nue	erature Blank:c
LA	BORATORY ANALYSI		
×	Please write le		
Bottle No.: 006-0003-77/0 Pla	nt/Site Name: Hamps	rce: Spatter Court	County: <u>Carroll</u>
Location: Plant	Sample Sou	irce: Spatter Court	Town or City
Collector/ID: Shown Lawmen	0076	25L Phone No.: _	410-294-7884
0 0 6 0 0 3 0 6 System No.		Plant No. Date Collected	Time Collected
Field Data: pH	Free CI:	7. 9 Total	ICI:
Private Community Non-Community	Stream Dist	rce (water) tribution (treated) er Treatment Plant POE CWA CERCLA	□ Oil □ Solid □ Other
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	□ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8260 (VOCs) 537. /	De Field Blank	M Trizma breen	
E21001288009 Received: 11/10/2020 EPA 537.1 Organics 0060003TP10	E21001288010 Received: 11/10/2020 Organics FE	AN IOD STORES	
Remarks:			
Lab Supervisor:		Date R	eported:/

Phone: (443) 681-3857

Fax: (443) 681-4507





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001288009

Method: EPA 537.1 - PFAS

Date Received:

11/10/2020

Date Collected: 11/10/2020

0060003TP10	Submitted By: Lowman		Date Analyz	zed: 11/17/2020	
ant_		RL	MCL	Result	
cosafluoro-3-oxaundeca	ane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
3H-perfluorononanoic a	cid (ADONA)	1.0		ND	
xadecafluoro-3-oxanon	ane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
propylene oxide dimer	acid (HFPO-DA)	1.0		ND	
fluorooctanesulfonamid	doacetic acid (N-EtFOSAA)	2.5		ND	
erfluorooctanesulfonan	nidoacetic acid (N-MeFOSAA)	3.0		ND	
utanesulfonic acid (PFE	3S)	1.0		15.40	
ecanoic acid (PFDA)		1.0		ND	
odecanoic acid (PFDoA	N)	2.0		ND	
eptanoic acid (PFHpA)		2.0		4.50	
exanesulfonic acid (PFI	HxS)	1.0		2.21	
exanoic acid (PFHxA)		1.0		7.70	
onanoic acid (PFNA)		2.0		ND	
ctanesulfonic acid (PFC	PS)	2.0		ND	
ctanoic acid (PFOA)		1.0		3.33	
tradecanoic acid (PFTI	DA)	1.0		ND	
decanoic acid (PFTrDA	N)	2.0		ND	
ndecanoic acid (PFUnD	PA)	1.0		ND	
	cosafluoro-3-oxaundeca BH-perfluorononanoic a xadecafluoro-3-oxanon propylene oxide dimer fluorooctanesulfonamic erfluorooctanesulfonamic erfluorooctanesulfonamic decanoic acid (PFDA) codecanoic acid (PFDA) exanesulfonic acid (PFDA) exanesulfonic acid (PFHA) conanoic acid (PFHXA) conanoic acid (PFNA) cotanesulfonic acid (PFOA) cotanoic acid (PFOA) tradecanoic acid (PFTICA) decanoic acid (PFTICA)	cosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) BH-perfluorononanoic acid (ADONA) xadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) propylene oxide dimer acid (HFPO-DA) fluorooctanesulfonamidoacetic acid (N-EtFOSAA) erfluorooctanesulfonamidoacetic acid (N-MeFOSAA) utanesulfonic acid (PFBS) ecanoic acid (PFDA) odecanoic acid (PFDA) exanesulfonic acid (PFHxS) exanesulfonic acid (PFHxS) exanoic acid (PFHxA) onanoic acid (PFNA) ctanesulfonic acid (PFOS)	cosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 3H-perfluorononanoic acid (ADONA) 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.	cosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.	Ant Result ADDRESS AND SET SET SUBSTITUTE OF SUBSTITUTE O

Comments:

Approved by:

Approval date: 11/18/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001288010

Method: EPA 537.1 - PFAS

Date Received: 11/10/2020

Date Collected: 11/10/2020

Field ID: FB0060003TP10 Submitted By: Lowman Date Analyzed: 11/17/2020

11Cld 1D. 1000000031110	Jabinitted by: Lowinair		Date Atlai	yzeu. 11/17/2020	
Contaminant		RL	MCL	Result	
1-chloroeicosafluoro-3-oxaundecane-1-s	sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-3H-perfluorononanoic acid (AE	OONA)	1.0		ND	
9-chlorohexadecafluoro-3-oxanonane-1-	sulfonic acid (9Cl-PF3ONS)	2.0		ND	
Hexafluoropropylene oxide dimer acid (H	IFPO-DA)	1.0		ND	
N-ethyl perfluorooctanesulfonamidoaceti	c acid (N-EtFOSAA)	2.5		ND	
N-methyl perfluorooctanesulfonamidoace	etic acid (N-MeFOSAA)	3.0		ND	
Perfluorobutanesulfonic acid (PFBS)		1.0		ND	
Perfluorodecanoic acid (PFDA)		1.0		ND	
Perfluorododecanoic acid (PFDoA)		2.0		ND	
Perfluoroheptanoic acid (PFHpA)		2.0		ND	
Perfluorohexanesulfonic acid (PFHxS)		1.0		ND	
Perfluorohexanoic acid (PFHxA)		1.0		ND	
Perfluorononanoic acid (PFNA)		2.0		ND	
Perfluorooctanesulfonic acid (PFOS)		2.0		ND	
Perfluorooctanoic acid (PFOA)		1.0		ND	
Perfluorotetradecanoic acid (PFTDA)		1.0		ND	
Perfluorotridecanoic acid (PFTrDA)		2.0		ND	
Perfluoroundecanoic acid (PFUnDA)		1.0		ND	

Comments:

Approved by:

Sadia Muneca

Approval date: 11/18/2020

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Send Report to:	State of Maryl MDH - Laboratories Ad	and Temp ministration	perature Blank: 4.0 °C	
	Division of Environmen ORGANICS ANALYTICA	_	AC RH 11/16/20	
	1770 Ashland Ave BALTIMORE, MARY		//>	
L	ABORATORY ANALYS	IS REQUEST FORM		
. 7	Please write I	Po. DPW		
Bottle No.: 012-0016-03 Pl	A.C.	d10	County: Harford	
Location: WTP lab sink	Sample So	urce: 3340 Abing din R	Adding don Town or Chy	
Collector/ID: Lookingla	end 627310	Phone No.:	464192769	
County System No.	12016 PWSID	O 3	20 OSI5 mom Time Collected	
Field Data: pH 7, 3	Free CI; /		a:_1-80	
Sample Type: MDrinking water	Landfill □ Sou	rce (water)	□ Oil	
		tribution (treated)	□ Solid	
Community □ □ Non-Community	Soil/Sediment KWat	er Treatment Plant POE	□ Other	
□ Other	PDES RCRA	□ CWA □ CERCLA	☐ Consumer Products	
Test Requested	Field & Trip Blank	Preservative Used	Comment	
☐ EPA Method 504.1 (EDB/DBCP) ☐ EPA Method 508 [Aroclors (SCAN	☐ Field Blank	☐ Sodium thiosulfate ☐ Sodium thiosulfate		
only) & Toxaphene]				
☐ EPA Method 515.3 (Herbicides) ☐ EPA Method 525.2 (Pesticides)	☐ Field Blank ☐ Field Blank	☐ Sodium thiosulfate ☐ HCL (6N)		
		□ Sodium sulfite		
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodlum thiosulfate		
☐ EPA Method 552.2 (Haloacetic acids)	□ Field Blank	☐ Ammonium chloride		
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate		
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate		
PFAS 537-1	X FIELD BLANK	(*RED)		
- ITAS SSIA		/*KEEU/		
E21001328001	E210013280			
Received: 11/16/2020 EPA 537.1 Organics 012-0016-03	Received: 11/16/2			
Organics 012-0016-03	Organics	012-0016-03Ft		
	1			
	-			
Remarks:				
ab Supervisor:		Date Ren	oorted:/	
•Phone:	(443) 681-3857	•Fax: (443) 681-4507		

ORIGINAL - LABORATORY





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001328001

Method: EPA 537.1 - PFAS

Date Received:

11/16/2020

Date Collected: 11/16/2020

Field ID: 012-0016-03

Submitted By: Lookingland

Date Analyzed: 11/20/2020

rieid iD:	012-0016-03	Submitted by: Lookingia	na	Date Analyzed	: 11/20/2020
Contamir	<u>nant</u>		<u>RL</u>	MCL	Result
1-chloroei	cosafluoro-3-oxaundecane-1-s	sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-	3H-perfluorononanoic acid (AI	DONA)	1.0		ND
9-chlorohe	exadecafluoro-3-oxanonane-1-	sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluor	opropylene oxide dimer acid (F	HFPO-DA)	1.0		ND
N-ethyl pe	rfluorooctanesulfonamidoaceti	ic acid (N-EtFOSAA)	2.5		ND
ا N-methyl	perfluorooctanesulfonamidoac	etic acid (N-MeFOSAA)	3.0		ND
Perfluorob	outanesulfonic acid (PFBS)		1.0		1.44
Perfluorod	lecanoic acid (PFDA)		1.0		ND
Perfluorod	lodecanoic acid (PFDoA)		2.0		ND
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)		1.0		ND
Perfluoroh	exanoic acid (PFHxA)		1.0		1.70
Perfluoron	onanoic acid (PFNA)		2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		ND
Perfluoroo	ctanoic acid (PFOA)		1.0		1.93
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND
Perfluorotr	ridecanoic acid (PFTrDA)		2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Approval date: 11/25/2020

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Certificate of Analysis

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Lab No.: E21001328002

Method: EPA 537.1 - PFAS

Date Received: 11/16/2020

Date Collected: 11/16/2020

Field ID: 012-0016-03FB Submitted By: Lookingland Date Analyzed: 11/20/2020

ricia ib.	012-0010-0310	Submitted by: Looking	gianu	Date Analyzed:	11/20/2020
Contamir	nant		<u>RL</u>	MCL	Result
1-chloroe	icosafluoro-3-oxaundecane-1-sulfo	onic acid (11CI-PF3OUdS	3) 2.0		ND
4,8-dioxa-	-3H-perfluorononanoic acid (ADO l	NA)	1.0		ND
9-chloroh	exadecafluoro-3-oxanonane-1-sul	fonic acid (9CI-PF3ONS)	2.0		ND
Hexafluor	opropylene oxide dimer acid (HFP	O-DA)	1.0		ND
N-ethyl pe	erfluorooctanesulfonamidoacetic a	cid (N-EtFOSAA)	2.5		ND
N-methyl	perfluorooctanesulfonamidoacetic	acid (N-MeFOSAA)	3.0		ND
Perfluorok	outanesulfonic acid (PFBS)		1.0		ND
Perfluoro	decanoic acid (PFDA)		1.0		ND
Perfluoro	lodecanoic acid (PFDoA)		2.0		ND
Perfluoroh	neptanoic acid (PFHpA)		2.0		ND
Perfluoroh	nexanesulfonic acid (PFHxS)		1.0		ND
Perfluoroh	nexanoic acid (PFHxA)		1.0		ND
Perfluoror	onanoic acid (PFNA)		2.0		ND
Perfluoroc	octanesulfonic acid (PFOS)		2.0		ND
Perfluoroc	octanoic acid (PFOA)		1.0		ND
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND
Perfluoroti	ridecanoic acid (PFTrDA)		2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Approval date: 11/25/2020

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Send Report to:	State of Maryl	and Tem	perature Blank: 4.0 °C
	MDH - Laboratories Adı Division of Environment	ministration tal Chemistry	AS RH 11/16/20
	ORGANICS ANALYTICA 1770 Ashland Ave	L LABORATORT	
	BALTIMORE, MARY		
	ABORATORY ANALYS		
n11 AA11-271	Har Por	egibly a) Co. DPW enyman	
	11.00	0.70	_
Location: WTP POE top		urce: 1538 Pellyman Yak	Town on only
Collector/ID: Looking la	nd GL7710	Phone No.:	410419 2709
County System No.	PWSID 16	Plant No. Date Collected	30 0900 ATT/pm Time Collected
Field Data: pH 7, 2	Free CI:	Total	ICI:_1.43
Sample Type: Drinking water	Landfill	rce (water)	□ Oil
	Stream Dist	tribution (treated)	□ Solid
	Soil/Sediment Wat	er Treatment Plant POE	□ Other
□ Non-Community			
Specify Program: ★SDWA □ N	PDES 🗆 RCRA	□ CWA □ CERCLA	□ Consumer Products
□ Other			
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	0
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles)	□ Field Blank	□ 1:1 HCL	
U VOCS I THMs	□ Trip Blank	☐ 1:1 HCL + Ascorbic acid☐ Sodium thiosulfate	
EPA Method 8260 (VOCS) FAS 537-1	& Field BLANK	M TRIZMA (*RED)	
1113 3811		(AK KEU)	
11111112 011 800 1814 8114 8114 8111 1111 1111 1	141744 100 7004 170 170 170 170 170 170 170		
E21001328003 Received: 11/16/2020 EPA 537.1	E2100132800 Received: 11/16/20		
Organics 012-0016-01	Organics	012-0016-01FE	
=			
-			
Remarks:			
Lab Supervisor:		Data Dar	oorted://
	(443) 681-3857		
- Phone.	(443) 00 1-3037	•Fax: (443) 681-4507	





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001328003

Method: EPA 537.1 - PFAS

Date Received: 11/16/2020 Date Collected: 11/16/2020

Field ID: 012-0016-01 Submitted By: Lookingland

Date Analyzed: 11/20/2020 Contaminant RL MCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 ND Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 ND Perfluorohexanoic acid (PFHxA) 1.0 ND Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 ND Perfluorotetradecanoic acid (PFTDA) 1.0 ND Perfluorotridecanoic acid (PFTrDA) 2.0 ND

Comments:

Approved by:

Approval date: 11/25/2020

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Perfluoroundecanoic acid (PFUnDA)

Fax: (443) 681-4507

1.0

ND

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001328004

Method: EPA 537.1 - PFAS

Date Received: 11/16/2020

Date Collected: 11/16/2020

Field ID: 012-0016-01FB Submitted By: Lookingland Date Analyzed: 11/20/2020

ricia ib. Oiz ooio oii b	Juditilitied by. LOOKINg	ianu	Date Analyzeu.	11/20/2020
<u>Contaminant</u>		RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-su	Ifonic acid (11CI-PF3OUdS)) 2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADC	ONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-se	ulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HF	FPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic	acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacet	ic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)		1.0		ND
Perfluorodecanoic acid (PFDA)		1.0		ND
Perfluorododecanoic acid (PFDoA)		2.0		ND
Perfluoroheptanoic acid (PFHpA)		2.0		ND
Perfluorohexanesulfonic acid (PFHxS)		1.0		ND
Perfluorohexanoic acid (PFHxA)		1.0		ND
Perfluorononanoic acid (PFNA)		2.0		ND
Perfluorooctanesulfonic acid (PFOS)		2.0		ND
Perfluorooctanoic acid (PFOA)		1.0		ND
Perfluorotetradecanoic acid (PFTDA)		1.0		ND
Perfluorotridecanoic acid (PFTrDA)		2.0		ND
Perfluoroundecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Approval date: 11/25/2020

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Page 4 of 8

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^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Maryl MDH - Laboratories Adı Division of Environmen ORGANICS ANALYTICA 1770 Ashland Ave	ministration tal Chemistry L LABORATORY	PAS RH 11/16/20
	BALTIMORE, MARY	LAND 21205	
	ABORATORY ANALYS Please write I	anihiy	
Bottle No.: 013-0001-0 (Pl	220	P Alacteen	County: Harford
Bottle No.: DIA-0001-D(PI	Sample So	urce: 4115 Post R	A Aserdeen Town or City
Collector/ID: Lookingla	nd 617710	Phone No.:	416419 2709
County System No.	12001	Plant No. Date Collected	30 0930 m/pm Time Collected
Field Data: pH 7,3	Free CI:	1.07 Tot	al CI: 2.07
Sample Type: Drinking water	Landfill □ Sou	rce (water)	□ Oil
		tribution (treated)	□ Solid
, ,	Soil/Sediment Wat	er Treatment Plant POE	□ Other
□ Non-Community Specify Program: □ SDWA □ N □ Other	PDES RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium su!fite	3
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasio	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
PFAS 537-1	IN Field BLANK	M TRIZMA	19
TING OBIE		(KREO)	
E21001328005 Received: 11/16/2020 EPA 537.1 Organics 012-0001-01	E210013280 Received: 11/16/2 Organics	06	
			d 1
Remarks:	· ·		
Lab Supervisor:			
			ported:/
•Phone:	(443) 681-3857	•Fax: (443) 681-4507	

ORIGINAL - LABORATORY





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001328005

Method: EPA 537.1 - PFAS

Date Received: 11/16/2020

Date Collected: 11/16/2020

Field ID: 012-0001-01 Submitted By: Lookingland Date Analyzed: 11/20/2020

Contaminant Pl MCI Popult

Contaminant	<u>RL</u>	MCL	Result	
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND	
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorobutanesulfonic acid (PFBS)	1.0		3.19	
Perfluorodecanoic acid (PFDA)	1.0		ND	
Perfluorododecanoic acid (PFDoA)	2.0		ND	
Perfluoroheptanoic acid (PFHpA)	2.0		4.27	
Perfluorohexanesulfonic acid (PFHxS)	1.0		9.47	
Perfluorohexanoic acid (PFHxA)	1.0		7.63	
Perfluorononanoic acid (PFNA)	2.0		ND	
Perfluorooctanesulfonic acid (PFOS)	2.0		14.40	
Perfluorooctanoic acid (PFOA)	1.0		8.28	
Perfluorotetradecanoic acid (PFTDA)	1.0		ND	
Perfluorotridecanoic acid (PFTrDA)	2.0		ND	
Perfluoroundecanoic acid (PFUnDA)	1.0		ND	

Comments:

Approved by: Sacia Muneca

Approval date: 11/25/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001328006

Method: EPA 537.1 - PFAS

Date Received:

11/16/2020

Date Collected: 11/16/2020

FIGIA ID. 012-0001-01FR Submitted By-

Field ID:	012-0001-01FB	Submitted By: Looking	and	Date Analyzed:	11/20/2020
Contamin	<u>ant</u>		RL	MCL	Result
1-chloroei	cosafluoro-3-oxaundecane	-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-	3H-perfluorononanoic acid	(ADONA)	1.0		ND
9-chlorohe	exadecafluoro-3-oxanonan	e-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluor	opropylene oxide dimer aci	d (HFPO-DA)	1.0		ND
N-ethyl pe	rfluorooctanesulfonamidoa	cetic acid (N-EtFOSAA)	2.5		ND
N-methyl p	perfluorooctanesulfonamide	pacetic acid (N-MeFOSAA)	3.0		ND
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND
Perfluorod	ecanoic acid (PFDA)		1.0		ND
Perfluorod	odecanoic acid (PFDoA)		2.0		ND
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND
Perfluoroh	exanesulfonic acid (PFHxs	6)	1.0		ND
Perfluoroh	exanoic acid (PFHxA)		1.0		ND
Perfluoron	onanoic acid (PFNA)		2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		ND
Perfluoroo	ctanoic acid (PFOA)		1.0		ND
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Approval date: 11/25/2020

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Fax: (443) 681-4507

Send Report to:	State of Maryl MDH - Laboratorics Ad Division of Environmen ORGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARY	ministration tal Chemistry L LABORATORY enue	PFAS RH 11/16/120
	ABORATORY ANALYS		
	Please write I	ggibly DPW	
Bottle No.: 013-0016-02 PI	ant/Site Name: Have	ede Grace	
Location: WTP POE +ap	Sample So	urce: 413 St Jahr Street	Town or City Grate
Collector/ID: Looking	and 61740	Phone No.	o.: 418 419 2789
County System No.			20 3 0 / 100 m/pm and mime Collected
Field Data: pH 7,4	Free CI:	2.10	Total CI: 2.10
☐ Private ☐ McCommunity ☐ Non-Community	Stream Dist	rce (water) tribution (treated) er Treatment Plant POE	□ Oil □ Solid
Specify Program: SDWA □ N □ Other	PDES □ RCRA	□ CWA □ CERCL	A Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	-
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monob☐ Sodium thiosulfate	asic
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8268 (VOCs) FAS 537-1	N Field BLANK	IN TRIZMA /*RED)	
E21001328007 Received: 11/16/2020 EPA 537.1 Organics 012-0016-02	E210013280 Received: 11/16/2 Organics	08	
3			
Remarks:			
Lab Supervisor:			e Reported:/
	(443) 681-3857 ED AS REC PROIND - LA	, ,	
SAMPLE TEST	ED AS RECEIVED		





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001328007

Method: EPA 537.1 - PFAS

Date Received: 11/16/2020

Date Collected: 11/16/2020

Field ID: 012-0016-02 Submitted By: Lookingland Date Analyzed: 11/20/2020 Contaminant <u>RL</u> MCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 1.74 Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 1.18 Perfluorohexanoic acid (PFHxA) 1.0 3.44 Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 3.44 Perfluorooctanoic acid (PFOA) 1.0 2.60 Perfluorotetradecanoic acid (PFTDA) 1.0 ND Perfluorotridecanoic acid (PFTrDA) 2.0 ND

Comments:

Approved by: Sacia Muneca

Approval date: 11/25/2020

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Perfluoroundecanoic acid (PFUnDA)

1.0

ND





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001328008

Method: EPA 537.1 - PFAS

Date Received: 11/16/2020

Date Collected: 11/16/2020

Field ID: 012-0016-02FB Submitted By: Lookingland Date Analyzed: 11/20/2020

Contaminant	<u>RL</u>	MCL	Result	
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND	
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorobutanesulfonic acid (PFBS)	1.0		ND	
Perfluorodecanoic acid (PFDA)	1.0		ND	
Perfluorododecanoic acid (PFDoA)	2.0		ND	
Perfluoroheptanoic acid (PFHpA)	2.0		ND	
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND	
Perfluorohexanoic acid (PFHxA)	1.0		ND	
Perfluorononanoic acid (PFNA)	2.0		ND	
Perfluorooctanesulfonic acid (PFOS)	2.0		ND	
Perfluorooctanoic acid (PFOA)	1.0		ND	
Perfluorotetradecanoic acid (PFTDA)	1.0		ND	
Perfluorotridecanoic acid (PFTrDA)	2.0		ND	
Perfluoroundecanoic acid (PFUnDA)	1.0		ND	

Comments:

Approved by:

Sadia Muneca

Approval date: 11/25/2020

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Send Report to:	State of Mary MDH - Laboratories Ac Division of Environne ORGANICS ANALYTIC/ 1770 Ashland Av BALTIMORE, MARY	Iministration ntal Chemistry NL LABORATORY venue	mperature Blank: 20°C
	ABORATORY ANALYS	SIS REQUEST FORM	
	Please write	N	
Bottle No.: 00 7-00 11-TP	ant/Site Name: Tou	INDF ELIKTON	County: CEC/C
Location: WELC 3	Sample So	Street	ELIK TON
Collector/ID: DSERA	AY 8841 10	Phone No.;	- 4184467324
O O O System No.	0 70011 PWSID	Plant No. Date Collected	1 Time Collected
Field Data: pH 06,8	Free CI:	200 Page 100	tal CI: 1, 4
☐ Community ☐ Non-Community		tribution (treated) ter Treatment Plant POE CWA CERCLA	□ Solid □ Other □ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	W .Mc
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	10.10
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	□ HCL (6N) □ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobas☐ Sodium thiosulfate	ic
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
□ EPA Method 8270 (Semi-Volatiles) □ Pesticides □ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8266 (VOCs) 537, /	FIELDBUNK	TRIS PASE TRIS HC L	
E31001379001			

E21001379001 Received: 11/18/2020 EPA 537.1 Organics 0070011TP02	E21001379002 Received: 11/18/2020 EPA 537.1 Organics FB0070011TP	

Lab Supervisor: ________
•Phone: (443) 681-3857

_____ Date Reported: ____/___/__ •Fax: (443) 681-4507

Remarks:





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001379001

Method: EPA 537.1 - PFAS

Date Received:

11/18/2020

Date Collected: 11/18/2020

Field ID:	0070011TP02	Submitted By:	Joseph Gay	Da	ite Analyzed:	11/24/2020
Contamin	<u>ant</u>		R	L MC	CL	Result
1-chloroeid	cosafluoro-3-oxaunde	cane-1-sulfonic acid (11Cl-PF	30UdS) 2	0		ND
4,8-dioxa-3	3H-perfluorononanoic	acid (ADONA)	1.	0		ND
9-chlorohe	xadecafluoro-3-oxand	onane-1-sulfonic acid (9Cl-PF	30NS) 2.	0		ND
Hexafluoro	propylene oxide dime	er acid (HFPO-DA)	1.	0		ND
N-ethyl per	rfluorooctanesulfonan	nidoacetic acid (N-EtFOSAA)	2.	5		ND
N-methyl p	erfluorooctanesulfona	amidoacetic acid (N-MeFOSA	A) 3.	0		ND
Perfluorob	utanesulfonic acid (Pf	FBS)	1.	0		4.46
Perfluorod	ecanoic acid (PFDA)		1.	0		ND
Perfluorode	odecanoic acid (PFDo	oA)	2.	0		ND
Perfluoroh	eptanoic acid (PFHpA	a)	2.	0		5.74
Perfluoroh	exanesulfonic acid (P	FHxS)	1.	0		4.41
Perfluorohe	exanoic acid (PFHxA)		1.	0		8.58
Perfluoron	onanoic acid (PFNA)		2.	0		2.27
Perfluorood	ctanesulfonic acid (PF	FOS)	2.	0		7.03
Perfluorood	ctanoic acid (PFOA)		1.	0		20.19
Perfluorote	tradecanoic acid (PF	TDA)	1.	0		ND
Perfluorotri	idecanoic acid (PFTrD	DA)	2.	0		ND
Perfluorour	ndecanoic acid (PFUr	nDA)	1.	0		ND

Comments:

Approved by:

Approval date: 11/25/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001379002

Method: EPA 537.1 - PFAS

Date Received: 11/18/2020

Date Collected: 11/18/2020

Field ID: FB0070011TP02 Submitted By: Joseph Gay Date Analyzed: 11/24/2020

rieid iD:	FB00700111P02	Submitted By: Joseph Gay		Date Analy:	zed: 11/24/2020	
Contamir	nant		RL	<u>MCL</u>	Result	
1-chloroei	cosafluoro-3-oxaundecane-1-sulf	onic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid (ADOI	NA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanonane-1-sul	fonic acid (9Cl-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dimer acid (HFP	O-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamidoacetic a	cid (N-EtFOSAA)	2.5		ND	
N-methyl	perfluorooctanesulfonamidoacetic	acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND	
Perfluoroc	lecanoic acid (PFDA)		1.0		ND	
Perfluoroc	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFHxS)		1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND	

Comments:

Approved by:

Sadia Muneca

Approval date: 11/25/2020

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Page 2 of 4

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Send Report to:	State of Maryland MDH - Laboratories Admin Division of Environmental	nistration	11/18/≥0 JY	
0	DIVISION OF ENVIRONMENTAL CHEMISTRY DRGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue BALTIMORE, MARYLAND 21205			
				
LAI	BORATORY ANALYSIS			
552 4 77	Please write leg	•		
Bottle No.: 00 7 - 0015 - T/0/Pla				
Location: SYCA-MORE				
Collector/ID: JOSEPHG				
0 0 7 0 0 15 00 County System No.	PWSID P	lant No. Date Collected	1 .5	
Field Data: pH	Free CI:	Total	ci:/ ₁ 2	
□ Private □	Stream Distr	//	□ Oil □ Solid □ Other	
Specify Program: DSDWA DND	PDES 🗆 RCRA	□ CWA □ CERCLA	□ Consumer Products	
Test Requested	Field & Trip Blank	Preservative Used	Comment	
☐ EPA Method 504.1 (EDB/DBCP)	□ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite		
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate		
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride		
☐ EPA Method 8270 (Semi-Volatiles)☐ Pesticides☐ Aroclors		☐ Sodium thiosulfate		
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate		
□ EPA Method \$250 (VOCs) 53 7 1	FIELD BLANK	TRIS BASE TRIS HEL		
E21001379003 Received: 11/18/2020 EPA 537.1 Organics 0070015TP01	E21001379 Received: 11/18 Organics			
Remarks:				
Lab Supervisor:		Date Re	ported:/	
	e: (443) 681-3857	•Fax: (443) 681-4507		
		ABORATORY SAMPLE TESTED	as received	

MDH98 (02/18)





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001379003

Method: EPA 537.1 - PFAS

Date Received: 11/18/2020 Field ID.

Date Collected: 11/18/2020

Field ID:	0070015TP01	Submitted By:	Joseph Gay		Date Analy	zed: 11/24/2020	
Contamin	<u>ant</u>			<u>RL</u>	MCL	Result	
1-chloroeid	cosafluoro-3-oxaundecane	-1-sulfonic acid (11CI-Pf	-3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid	(ADONA)		1.0		ND	
9-chlorohe	xadecafluoro-3-oxanonan	e-1-sulfonic acid (9Cl-PF	F3ONS)	2.0		ND	
Hexafluoro	propylene oxide dimer aci	d (HFPO-DA)		1.0		ND	
N-ethyl per	rfluorooctanesulfonamidoa	acetic acid (N-EtFOSAA)		2.5		ND	
N-methyl p	erfluorooctanesulfonamid	oacetic acid (N-MeFOSA	NA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)			1.0		4.66	
Perfluorod	ecanoic acid (PFDA)			1.0		ND	
Perfluorod	odecanoic acid (PFDoA)			2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)			2.0		7.41	
Perfluoroh	exanesulfonic acid (PFHx	3)		1.0		1.80	
Perfluoroh	exanoic acid (PFHxA)			1.0		8.73	
Perfluoron	onanoic acid (PFNA)			2.0		ND	
Perfluoroo	ctanesulfonic acid (PFOS)			2.0		3.09	
Perfluoroo	ctanoic acid (PFOA)			1.0		23.98	
Perfluorote	etradecanoic acid (PFTDA))		1.0		ND	
Perfluorotri	idecanoic acid (PFTrDA)			2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND	

Comments:

Approved by:

Approval date: 11/25/2020

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Fax: (443) 681-4507

Page 3 of 4

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^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001379004

Method: EPA 537.1 - PFAS

Date Received: 11/18/2020

Date Collected: 11/18/2020

Field ID: FB0070015TP01 Submitted By: Joseph Gay Date Analyzed: 11/24/2020

Tield 12. Too roots 11 of submitted by: 303cpit Gay		Date Afiai	yzeu. 11/24/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Sadia Muneca

Approval date: 11/25/2020

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Send Report to:	State of Mary MDH - Laboratories Ad Division of Environme ORGANICS ANALYTICA 1770 Ashland Ad BALTIMORE, MARY	AL LABORATORY	mperature Blank: O c AT III ZO 20
L	ABORATORY ANALYS		
Bottle No.: 006-0003 - Well 24 R P			County: Carroll
Location: Plant Raw	Top Sample So	ource: 4119 Creswell To	Truce Humpstend Town or City
Collector/ID: Shawn Lowner	0076	5L Phone No.:	410-294-7884
0 0 6 0 0 3 0 0 County System No.	0 6 0 0 0 3	O 8 I/ / 30/20 Plant No. Date Collected	8/S@pm Time Collected
Field Data: pH 6.1	Free CI:	<i>O. O</i>	tal CI: 0. 0
□ Private □	Stream Dis	arce (water) stribution (treated) ter Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: SDWA D N	IPDES □ RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
□ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasi☐ Sodium thiosulfate	ic
☐ EPA Method 552.2 (Haloacetic acids) ☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	□ Field Blank	☐ Ammonium chloride ☐ Sodium thiosulfate	Ţ
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8266 (VOCs) 537.1	OF Field Blunk	B Trizma	
E21001417001 Received: 11/20/2020 EPA 537.1 Organics 006-0003-Well:	E21001417002 Received: 11/20/2020 Organics	2	
emarks: Well 24 Raw	Sumple	-	
ab Supervisor:		Date Ro	eported:/
•Phone:	(443) 681-3857	•Fax: (443) 681-4507	
	ORIGINAL - LA	BORATORY	





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001417001

Method: EPA 537.1 - PFAS

Date Received:

11/20/2020

Date Collected: 11/20/2020

Field ID:	006-0003-Well24	Submitted By:	Shawn Lowman	Date Analyzed:	11/24/2020
Contamin	ant		RL	MCL	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-sul	fonic acid (11Cl-PF	3OUdS) 2.0)	ND
4,8-dioxa-	3H-perfluorononanoic acid (ADO	NA)	1.0)	ND
9-chlorohe	xadecafluoro-3-oxanonane-1-su	lfonic acid (9Cl-PF	30NS) 2.0)	ND
Hexafluord	ppropylene oxide dimer acid (HF	PO-DA)	1.0)	ND
N-ethyl pe	rfluorooctanesulfonamidoacetic	acid (N-EtFOSAA)	2.5	5	ND
N-methyl p	perfluorooctanesulfonamidoaceti	c acid (N-MeFOSA	A) 3.0)	ND
Perfluorob	utanesulfonic acid (PFBS)		1.0)	5.48
Perfluorod	ecanoic acid (PFDA)		1.0)	ND
Perfluorod	odecanoic acid (PFDoA)		2.0)	ND
Perfluoroh	eptanoic acid (PFHpA)		2.0)	12.70
Perfluoroh	exanesulfonic acid (PFHxS)		1.0)	53.00
Perfluoroh	exanoic acid (PFHxA)		1.0)	17.70
Perfluoron	onanoic acid (PFNA)		2.0)	3.40
Perfluoroo	ctanesulfonic acid (PFOS)		2.0)	270.00
Perfluoroo	ctanoic acid (PFOA)		1.0)	13.70
Perfluorote	etradecanoic acid (PFTDA)		1.0)	ND
Perfluorotr	idecanoic acid (PFTrDA)		2.0)	ND
Perfluorou	ndecanoic acid (PFUnDA)		1.0)	ND

Comments:

Approved by:

Approval date: 11/25/2020

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001417002

Method: EPA 537.1 - PFAS

Date Received: 11/20/2020

Date Collected: 11/20/2020

Field ID: FB-006-0003-Wel Submitted By: Shawn Lowman Date Analyzed: 11/24/2020

Field ID:	FB-006-0003-Wel	Submitted By: Shawn Lov	wman	Date Analyzed:	11/24/2020
Contamin	<u>ant</u>		RL	MCL	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-sulf	fonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-	3H-perfluorononanoic acid (ADO	NA)	1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-su	lfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluord	ppropylene oxide dimer acid (HFF	PO-DA)	1.0		ND
N-ethyl pe	rfluorooctanesulfonamidoacetic a	ecid (N-EtFOSAA)	2.5		ND
N-methyl p	perfluorooctanesulfonamidoacetic	acid (N-MeFOSAA)	3.0		ND
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND
Perfluorod	ecanoic acid (PFDA)		1.0		ND
Perfluorod	odecanoic acid (PFDoA)		2.0		ND
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)		1.0		ND
Perfluoroh	exanoic acid (PFHxA)		1.0		ND
Perfluoron	onanoic acid (PFNA)		2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		ND
Perfluoroo	ctanoic acid (PFOA)		1.0		ND
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Sadia Muneca

Approval date: 11/25/2020

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Page 2 of 6

Send Report to:	State of Maryl MDH - Laboratories Ad Division of Environmen ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	ministration tal Chemistry L LABORATORY enue	An III Zolio
L	ABORATORY ANALYS Please write I		
Bottle No.: 006-0003-Well 35 Rp			
Location: Plant Raw	Tup Sample So	urce: 4119 Creswell Terry.	ce Humpstead
Collector/ID: Shawn Lowner	00765	Phone No.:	4102947884
0 0 6 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 6 0 0 0 3 PWSID	Plant No. Date Collected	8 25 mpm. Time Collected
Field Data: pH 6.2	Free CI:	O. O Total	ICI; <i>O · O</i>
□ Private □ □ Community □ □ Non-Community	Stream	rce (water) tribution (treated) er Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: Ut SDWA IN	PDES RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
□ EPA Method 8270 (Semi-Volatiles) □ Pesticides □ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles)☐ VOCS☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	^
EPA Method 8266 (VOCs) 5'37. /	Field Blank	EY Trizma	
E21001417003 Received: 11/20/2020 EPA 537.1: Organics 006-0003-We	E21001417004 Received: 11/20/2020 Organics	i e l	
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-h Community		Data n	sorteds / /
•			oorted:/
•Pnone:	(443) 681-3857 ORIGINAL - LA	•Fax: (443) 681-4507	





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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001417003

Method: EPA 537.1 - PFAS

Date Received:

11/20/2020

Date Collected: 11/20/2020

Field ID: 006-0003-Well25

Field ID:	006-0003-Well25	Submitted By: Sha	wn Lowman	Date Analyzed:	11/24/2020
Contamin	ant		RL	MCL	Result
1-chloroei	cosafluoro-3-oxaundecane-1	sulfonic acid (11CI-PF3O	UdS) 2.0		ND
4,8-dioxa-	3H-perfluorononanoic acid (A	DONA)	1.0		ND
9-chlorohe	exadecafluoro-3-oxanonane-1	-sulfonic acid (9CI-PF3OI	NS) 2.0		ND
Hexafluor	opropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl pe	rfluorooctanesulfonamidoace	tic acid (N-EtFOSAA)	2.5		ND
N-methyl p	perfluorooctanesulfonamidoa	cetic acid (N-MeFOSAA)	3.0		ND
Perfluorob	utanesulfonic acid (PFBS)		1.0		3.77
Perfluorod	ecanoic acid (PFDA)		1.0		ND
Perfluorod	odecanoic acid (PFDoA)		2.0		ND
Perfluoroh	eptanoic acid (PFHpA)		2.0		2.33
Perfluoroh	exanesulfonic acid (PFHxS)		1.0		4.80
Perfluoroh	exanoic acid (PFHxA)		1.0		4.31
Perfluoron	onanoic acid (PFNA)		2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		6.19
Perfluoroo	ctanoic acid (PFOA)		1.0		3.23
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Approval date: 11/25/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001417004

Method: EPA 537.1 - PFAS

Date Received: 11/20/2020

Date Collected: 11/20/2020
Submitted Ry: Shawn Lowman

Field ID:	FB-006-0003-Wel	Submitted By: Shawn Lov	wman	Date Analy	zed: 11/24/2020	
Contamir	<u>nant</u>		RL	MCL	Result	
1-chloroe	icosafluoro-3-oxaundecane-1-	sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	-3H-perfluorononanoic acid (Al	DONA)	1.0		ND	
9-chloroh	exadecafluoro-3-oxanonane-1-	sulfonic acid (9Cl-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dimer acid (H	HFPO-DA)	1.0		ND	
N-ethyl pe	erfluorooctanesulfonamidoacet	ic acid (N-EtFOSAA)	2.5		ND	
N-methyl	perfluorooctanesulfonamidoac	etic acid (N-MeFOSAA)	3.0		ND	
Perfluorok	outanesulfonic acid (PFBS)		1.0		ND	
Perfluoro	decanoic acid (PFDA)		1.0		ND	
Perfluoro	lodecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	neptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	nexanesulfonic acid (PFHxS)		1.0		ND	
Perfluoroh	nexanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroc	octanesulfonic acid (PFOS)		2.0		ND	
Perfluoroo	octanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND	
Perfluoroti	ridecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND	

Comments:

Approved by:

Sadia Muneen

Approval date: 11/25/2020

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Sample Type: Drinking water	Send Report to:	State of Mary MDH - Laboratories Ad Division of Environmer ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	Iministration ntal Chemistry LLABORATORY enue	Temperature Blank: 0 c
Collector/ID: Status Lowers 00765L Phone No.: 4/0 344 788 4 Dold Do				
Collector/ID: Status Lowers 00765L Phone No.: 4/0 344 788 4 Dold Do	Bottle No.: 006-0003-TPO8C PI	ant/Site Name: Humps 70	end with 11	County: Carroll
Preservative Used Comment	Location: Plant	Sample So	urce: 4119 Creswel	1 Torrace Humpstend
Fleld Data: pH S.	Collector/ID: Shawn Lownen	00765	SL Phone	No.: 410 294 7884
Sample Type: Drinking water Landfill Source (water) Oil Private Stream Distribution (treated) Solid Community Soil/Sediment Water Treatment Plant POE Other Non-Community		7 6 0 0 0 3	O 8 II / 30 Date Colle	/20 20 835 Jampon Time Collected
Private	Field Data: pH 8.0	Free CI:	1.2	Total CI: /. 8
Test Requested Field & Trip Blank Preservative Used Comment	☐ Private ☐ ☐ Community ☐ Non-Community	Stream Dis Soil/Sediment Wat	tribution (treated) ter Treatment Plant POE	□ Solid □ Other
□ EPA Method 504.1 (EDB/DBCP) □ Field Blank □ Sodium thiosulfate □ EPA Method 508 [Aroclors (SCAN □ Field Blank □ Sodium thiosulfate □ EPA Method 515.3 (Herbicides) □ Field Blank □ Sodium thiosulfate □ EPA Method 515.2 (Pesticides) □ Field Blank □ HCL (6N) □ Sodium sulfite □ EPA Method 531.2 (Carbamates) □ Field Blank □ Potassium Citrate monobasic □ Sodium thiosulfate □ EPA Method 525.2 (Haloacetic acids) □ Field Blank □ Ammonium chloride □ EPA Method 525.2 (Haloacetic acids) □ Field Blank □ Ammonium chloride □ EPA Method 527.0 (Semi-Volatiles) □ Pesticides □ Aroclors □ Sodium thiosulfate □ Sodium thiosulfate □ EPA Method 524.2 (Volatiles) □ Field Blank □ 1:1 HCL □ 1:1 HCL □ 1:1 HCL □ 1:1 HCL □ Sodium thiosulfate		T		
□ EPA Method 508 [Aroclors (SCAN only) & Toxaphene] □ EPA Method 515.3 (Herbicides) □ EPA Method 525.2 (Pesticides) □ EPA Method 531.2 (Carbamates) □ EPA Method 552.2 (Haloacetic acids) □ EPA Method 552.2 (Haloacetic acids) □ EPA Method 527.2 (Semi-Volatiles) □ EPA Method 527.2 (Semi-Volatiles) □ Pesticides □ Aroclors □ EPA Method 524.2 (Valities) □ Pesticides □ Aroclors □ EPA Method 524.2 (Valities) □ Pesticides □ Aroclors □ EPA Method 524.2 (Valities) □ Trip Blank □ 1:1 HCL □ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate □ EPA Method 624.2 (Valities) □ VOCS □ THMs □ Trip Blank □ 1:1 HCL + Scorbic acid □ Sodium thiosulfate □ EPA Method 624.2 (Valities) □ VOCS □ THMs □ Trip Blank □ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate □ EPA Method 624.2 (Valities) □ Trip Blank □ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate □ Trip Blank □ 1:1 HCL + Scorbic acid □ Sodium thiosulfate □ Trip Blank □ 1:1 HCL + Scorbic acid □ Sodium thiosulfate □ Trip Blank □ 1:1 HCL + Scorbic acid □ Sodium thiosulfate □ Trip Blank □ 1:1 HCL + Scorbic acid □ Sodium thiosulfate □ Trip Blank □ 1:1 HCL + Scorbic acid □ Sodium thiosulfate □ Trip Blank □ 1:1 HCL + Scorbic acid □ Sodium thiosulfate □ Trip Blank □ 1:1 HCL + Scorbic acid □ Sodium thiosulfate □ Trip Blank □ 1:1 HCL + Scorbic acid □ Sodium thiosulfate □ Trip Blank □ 1:1 HCL + Scorbic acid □ Sodium thiosulfate □ Trip Blank □ 1:1 HCL + Scorbic acid □ Sodium thiosulfate □ Trip Blank □ 1:1 HCL + Scorbic acid □ Sodium thiosulfate □ Trip Blank □ 1:1 HCL + Scorbic acid □ Sodium thiosulfate □ Trip Blank □ 1:1 HCL + Scorbic acid □ Scorbic Trip Blank □ 1:1 HCL + Scorbic acid □ Scorbic Trip Blank □ 1:1 HCL + Scorbic acid □ Scorbic Trip Blank □ 1:1 HCL + Scorbic acid □ Scorbic Trip Blank □ 1:1 HCL + Scorbic acid □ Scorbic Trip Blank □ 1:1 HCL + Scorbi				Comment
□ EPA Method 515.3 (Herbicides) □ Field Blank □ Sodium thiosulfate □ EPA Method 525.2 (Pesticides) □ Field Blank □ Hot. (6N) □ Sodium sulfate □ EPA Method 531.2 (Carbamates) □ Field Blank □ Potassium Citrate monobasic □ Sodium thiosulfate □ EPA Method 552.2 (Haloacetic acids) □ Field Blank □ Ammonium chloride □ EPA Method 6270 (Semi-Volatiles) □ Pesticides □ Arcolors □ Field Blank □ 1:1 HCL □ Tit HCL + Ascorbic acid □ Sodium thiosulfate □ EPA Method 524.2 (Volatiles) □ Field Blank □ 1:1 HCL □ Tit HCL + Ascorbic acid □ Sodium thiosulfate □ EPA Method 6260 (VOGS) \$37.1 □ Field Blank □ Tri, Zma ■ EPA Method 6260 (VOGS) \$37.1 □ Field Blank □ Tri, Zma ■ E21001417005 Received: 11/20/2020 EPA 537.1 □ Field Blank □ Tri, Zma ■ E21001417005 Received: 11/20/2020 EPA 537.1 □ Field Blank □ Tri, Zma ■ E21001417006 Received: 11/20/2020 EPA 537.1 □ Field Blank □ Tri, Zma ■ E21001417006 Received: 11/20/2020 EPA 537.1 □ Field Blank □ Tri, Zma ■ E21001417006 Received: 11/20/2020 EPA 537.1 □ Field Blank □ Tri, Zma ■ E21001417006 Received: 11/20/2020 EPA 537.1 □ Field Blank □ Tri, Zma ■ E21001417006 Received: 11/20/2020 EPA 537.1 □ Field Blank □ Tri, Zma ■ E21001417006 Received: 11/20/2020 EPA 537.1 □ Field Blank □ Tri, Zma ■ E21001417006 Received: 11/20/2020 EPA 537.1 □ Field Blank □ Tri, Zma ■ E21001417006 Received: 11/20/2020 EPA 537.1 □ Field Blank □ Tri, Zma	☐ EPA Method 508 [Aroclors (SCAN			
EPA Method 531.2 (Carbamates) Field Blank Potassium Citrate monobasic Sodium sulfite Potassium Citrate monobasic Sodium thiosulfate Potassium Citrate monobasic Sodium Citrate monobasic Potassium Citrate monobasic Sodium Citrate monobasic Potassium Citrate monobasic Potassium Citrate monobasic Sodium Citrate monobasic Potassium Citrate monobasic Potassium Citrate monobasic Sodium Citrate monobasic Potassium Cit		□ Field Blank	☐ Sodium thiosulfate	
□ EPA Method 531.2 (Carbamates) □ Field Blank □ Potassium Citrate monobasic □ Sodium thiosulfate □ EPA Method 8270 (Semi-Volatiles) □ Pesticides □ Aroclors □ EPA Method 524.2 (Volatiles) □ Field Blank □ 1:1 HCL □ Sodium thiosulfate □ EPA Method 8270 (VOGs) □ THMs □ Trip Blank □ 1:1 HCL □ Sodium thiosulfate □ Sodium thiosulfate □ Trip Blank □ 1:1 HCL □ 1:1 HCL □ Sodium thiosulfate □ Trip Blank □ 1:1 HCL □ 1:1				
□ EPA Method 8270 (Semi-Volatiles) □ Pesticides □ Arcolors □ EPA Method 524.2 (Volatiles) □ VOCS □ THMs □ Trip Blank □ 1:1 HCL □ VOCS □ THMs □ Trip Blank □ 1:1 HCL + Ascorbic acid Sodium thiosulfate □ EPA Method 8260 (VOGe) \$ 37.1 □ Field Blank □ Tri, Zma □ EPA Method 8260 (VOGe) \$ 37.1 □ Field Blank □ Tri, Zma □ EPA Method 8260 (VOGe) \$ 37.1 □ Field Blank □ Tri, Zma □ EPA Method 8260 (VOGe) \$ 37.1 □ Field Blank □ Tri, Zma □ EPA Method 8260 (VOGe) \$ 37.1 □ Field Blank □ Tri, Zma □ EPA Method 8260 (VOGe) \$ 37.1 □ Field Blank □ Tri, Zma □ EPA Method 8260 (VOGe) \$ 37.1 □ Field Blank □ Tri, Zma □ EPA Method 8260 (VOGe) \$ 37.1 □ Field Blank □ Trip Bla	☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate mono	basic
Pesticides Aroclors Field Blank 1:1 HCL 1:1 HCL Sodium thiosulfate Sodium thiosulfate Field Blank Trizma Trizma Field Blank Trizma Trizma Field Blank Trizma	☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
EPA Method 524.2 (Volatiles) VOCS THMS Trip Blank Trip Blank Trip Blank EPA Method 6260 (VOCs) \$37.1 EPA Method 6260 (VOCs) \$			☐ Sodium thiosulfate	
E21001417005 Received: 11/20/2020 EPA 537.1 Organics	☐ EPA Method 524.2 (Volatiles)		☐ 1:1 HCL + Ascorbic acid	
Received: 11/20/2020 EPA 537.1 Organics O06-0003-TF Organics FB-006-000:	☑ EPA Method 8200 (VOCe) 5:37.1	I field Blank		
ab Supervisor: Date Reported:/	Received: 11/20/2020 EPA 537.1	E21001417 Received: 11/20	7006 0/2020 EPA 537.1	
Date Reported:	temarks: Well 24+25 we	ere both pump	ing for the sa	-ple
•Phone: (443) 681-3857 •Fax: (443) 681-4507				
ORIGINAL - LABORATORY	•Phone:		•Fax: (443) 681-4507	

MDH98 (02/18)





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001417005

Method: EPA 537.1 - PFAS

Date Received:

11/20/2020

Date Collected: 11/20/2020

Field ID. 006-0003-TP08C Submitted Ry: Shawn Lowman

Field ID:	006-0003-1P08C	Submitted By: Shawn Low	man	Date Analy:	zed: 11/24/2020	
Contamin	ant		RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaundecane-1-si	ulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid (AD	ONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanonane-1-s	sulfonic acid (9Cl-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dimer acid (H	FPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamidoacetic	acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonamidoace	tic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)		1.0		4.85	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		8.61	
Perfluoroh	exanesulfonic acid (PFHxS)		1.0		33.86	
Perfluoroh	exanoic acid (PFHxA)		1.0		11.80	
Perfluoron	onanoic acid (PFNA)		2.0		2.09	
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		231.00	
Perfluoroo	ctanoic acid (PFOA)		1.0		9.37	
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND	

Comments:

Approved by:

Approval date: 11/25/2020

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Page 5 of 6

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Lab No.: E21001417006

Method: EPA 537.1 - PFAS

Date Received: 11/20/2020

Date Collected: 11/20/2020

Field ID: FB-006-0003-TP0 Submitted By: Shawn Lowman Date Analyzed: 11/24/2020

Field ID:	FB-006-0003-TP0 Sul	bmitted By: Shawn Lowr	man	Date Analyz	ed: 11/24/2020	
Contamin	ant		RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid (ADONA)		1.0		ND	
9-chlorohe	xadecafluoro-3-oxanonane-1-sulfonio	acid (9Cl-PF3ONS)	2.0		ND	
Hexafluor	ppropylene oxide dimer acid (HFPO-D	DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonamidoacetic acid	d (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFHxS)		1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	tradecanoic acid (PFTDA)		1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND	

Comments:

Approved by:

Approval date: 11/25/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Page 6 of 6

S:\EnviroFinal-Organics-PFAS.rl

Send Report to:	State of Maryl: MDH - Laboratories Adr Division of Environment ORGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARYI	ninistration Ial Chemistry L LABORATORY enue	oerature Blank: 1.0°C TY 11/24/20	
LA	BORATORY ANALYS			
Bottle No.: 010-0023-1903 Pl	ant/Site Name: Thur	mont Wells 3,4,9	County: Frederick	
Location: POEQ WN	Sample Sou	Street	Town or City	
Collector/ID: Holf 632301		Phone No.:	4104467432	
County System No.	00023 PWSID	Plant No. Date Collected	O ZOD Drpm Time Collected	
Field Data: pH 7.3	Free CI:	Z Total	ci: 1,5	
□ Private □ □ Community □ □ Non-Community	Stream Dist Soil/Sediment Wat	rce (water) ribution (treated) er Treatment Plant POE CWA CERCLA	□ Oil □ Solid □ Other □ Consumer Products	
Test Requested	Field & Trip Blank	Preservative Used	Comment	
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 525.2 (Pesticides)	□ Fleld Blank	☐ HCL (6N) ☐ Sodium sulfite	1 5	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate		
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride		
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	7	☐ Sodium thiosulfate		
EPA Method 524.2 (Velatiles) 537.1	□ Fleld Blank □ Trip Blank	□ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate		
☐ EPA Method 8260 (VOCs)				
E21001445001 Received: 11/24/2020 EPA 537.1 Organics 0100023TP03 E21001445002 Received: 11/24/2020 EPA 537.1 Organics FB0100023TP0				
			<u> </u>	
, s				
Remarks:				
Lab Supervisor:			oorted:/	





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001445001

Method: EPA 537.1 - PFAS

Date Received: 11/24/2020

Date Collected: 11/23/2020

Field ID: 0100023TP03 Submitted By: Holt Date Analyzed: 11/26/2020

Fleid ID:	01000231703	Submitted By: Holt		Date Anal	yzed: 11/26/2020	
Contamir	nant		RL	<u>MCL</u>	Result	_
1-chloroei	cosafluoro-3-oxaunde	cane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic	acid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanc	onane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dime	er acid (HFPO-DA)	1.0		ND	
N-ethyl pe	erfluorooctanesulfonam	nidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl	perfluorooctanesulfona	amidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	outanesulfonic acid (PF	FBS)	1.0		2.25	
Perfluoro	lecanoic acid (PFDA)		1.0		ND	
Perfluoroc	lodecanoic acid (PFDc	pA)	2.0		ND	
Perfluoroh	neptanoic acid (PFHpA	.)	2.0		ND	
Perfluoroh	exanesulfonic acid (Pl	FHxS)	1.0		4.86	
Perfluoroh	exanoic acid (PFHxA)		1.0		1.77	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroc	octanesulfonic acid (PF	FOS)	2.0		9.06	
Perfluoroc	octanoic acid (PFOA)		1.0		10.60	
Perfluorote	etradecanoic acid (PF	FDA)	1.0		ND	
Perfluoroti	ridecanoic acid (PFTrD	PA)	2.0		ND	
Perfluorou	ndecanoic acid (PFUn	DA)	1.0		ND	

Comments:

Approved by: Sacra Muneca

Approval date: 12/03/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Lab No.: E21001445002

Method: EPA 537.1 - PFAS

Date Received:

11/24/2020

Date Collected: 11/23/2020

Field ID: FR0100023TP03

Field ID:	FB0100023TP03	Submitted By: Holt		Date Analy:	zed: 11/26/2020	
Contamir	<u>ant</u>		<u>RL</u>	<u>MCL</u>	Result	
1-chloroei	cosafluoro-3-oxaundecane-1-sul	Ifonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid (ADC	DNA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanonane-1-su	ulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dimer acid (HF	PO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamidoacetic	acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonamidoaceti	c acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFHxS)		1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND	

Comments:

Approved by:

Approval date: 12/03/2020

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Send Report to:	State of Maryl MDH - Laboratories Adi Division of Environmen ORGANICS ANALYTICA 1770 Ashland Avv BALTIMORE, MARY	ministration tal Chemistry L LABORATORY enue	perature Blank: 1.0 °C 7 4 11/24/20
LA	ABORATORY ANALYS Please write I		
Bottle No.: 010-6023-706 Pl	ant/Site Name: Thur	mont Well 8	County: Fredorick
Location: POE Q WN	Sample So	urce;	Town or City
Collector/ID: Holt 6313	n+	Phone No.:	4104467432
OIO OZ3 OI	00023 PWSID	0 6 1 723 /20 Z Plant No. Date Collected	O Z30 mpm Time Collected
Field Data: pH 8.2	Free CI:	. 7 Total	CI: 1, Z
Private Community Non-Community	Stream Dis	rce (water) tribution (treated) er Treatment Plant POE CWA CERCLA	□ Oil □ Solid □ Other
Test Requested	Field & Trip Blank	Preservative Used	Comment
□ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	G
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	*
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
EPA Method 524.2 (Volatiles) 537.) OCCS THMS PPIS	□ Frield Blank □ Trip Blank	□ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate (230)	
☐ EPA Method 8260 (VOCs)			
E21001445003 Received: 11/24/2020 EPA 537.1 Organics 0100023TP06	E21001445 Received: 11/24 Organics	004 /2020 EPA 537.1 FB0100023TP	
Parameter.			-
Remarks:			
Lab Supervisor:	(443) 681-3857	-	orted:/

ORIGINAL - LABORATORY SAMPLE TESTED AS RECEIVED





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001445003

Method: EPA 537.1 - PFAS

Date Received: 11/24/2020

Date Collected: 11/23/2020

Field ID: 0100023TP06

Submitted By: Holt

Date Analyzed: 11/26/2020

Fleid ID:	01000231706	Submitted By: Holt		Date Anal	yzed: 11/26/2020	
Contamir	nant		RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaundeca	ne-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic ad	eid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanona	ane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dimer a	acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamid	oacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl (perfluorooctanesulfonam	idoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	outanesulfonic acid (PFB	S)	1.0		2.63	
Perfluoroc	lecanoic acid (PFDA)		1.0		ND	
Perfluoroc	lodecanoic acid (PFDoA))	2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFH	lxS)	1.0		4.96	
Perfluoroh	exanoic acid (PFHxA)		1.0		1.77	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFO	S)	2.0		35.30	
Perfluoroo	ctanoic acid (PFOA)		1.0		11.60	
Perfluorote	etradecanoic acid (PFTD	A)	1.0		ND	
Perfluorotr	ridecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnD	4)	1.0		ND	

Comments:

Approved by:

Approval date: 12/03/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001445004

Method: EPA 537.1 - PFAS

Date Received:

11/24/2020

Date Collected: 11/23/2020

CILL ID

Field ID:	FB0100023TP06	Submitted By: Holt		Date Analy	zed: 11/26/2020	
Contamin	nant		RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaundeca	ne-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic ad	cid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanona	ane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dimer a	acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamid	oacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonam	idoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	outanesulfonic acid (PFB	S)	1.0		ND	
Perfluorod	lecanoic acid (PFDA)		1.0		ND	
Perfluorod	lodecanoic acid (PFDoA)	2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFF	lxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFO	S)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFTD	A)	1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA		2.0		ND	
Perfluorou	ndecanoic acid (PFUnD	4)	1.0		ND	

Comments:

Approved by:

Approval date: 12/03/2020

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Send Report to:	State of Maryla MDH - Laboratories Adm Division of Environmenta DRGANICS ANALYTICAI 1770 Ashland Aver BALTIMORE, MARYL	ninistration al Chemistry L'LABORATORY nue	perature Blank: 1.0 °C TY 11/24/20
LA	BORATORY ANALYSI Please write le		
Bottle No.: 010-0023-7705 Pla		mont Well7	County: Frederick
Location: POE@ WIP	Sample Sou	Street	Town or City
Collector/ID: Holf 63230	+	Phone No.:	4104467432
O I O O Z 3 O I	, ,,===	0 5 11 /23 /20 Date Collected	Time Collected
Field Data: pH 3,5	Free CI:	Tot	al CI: 1, Z
Private Community Non-Community	Stream Dist	rce (water) ribution (treated) er Treatment Plant POE CWA CERCLA	□ Oil □ Solid □ Other
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 508 [Aroclors (SCAN	□ Field Blank	☐ Sodium thiosulfate	
only) & Toxaphene] □ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasi☐ Sodium thiosulfate	С
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
EPA Method-524:2 (Volatiles) 537.	© Fred Blank □ Trip Blank	□ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs)			
E21001445005 Received: 11/24/2020 EPA 537.1 Organics 0100023TP05	E21001445 Received: 11/24		
			2
Remarks:		Date F	Reported://

Phone: (443) 681-3857

•Fax: (443) 681-4507





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001445005

Method: EPA 537.1 - PFAS

Date Received:

11/24/2020

Date Collected: 11/23/2020

Field ID:	0100023TP05	Submitted By: Holt		Date Analyze	d: 11/26/2020
Contamin	ant		RL	MCL	Result
1-chloroeid	cosafluoro-3-oxaunde	cane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-	3H-perfluorononanoic	acid (ADONA)	1.0		ND
9-chlorohe	xadecafluoro-3-oxan	onane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluord	propylene oxide dime	er acid (HFPO-DA)	1.0		ND
N-ethyl per	rfluorooctanesulfonan	nidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl p	erfluorooctanesulfon	amidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorob	utanesulfonic acid (Pl	FBS)	1.0		2.74
Perfluorod	ecanoic acid (PFDA)		1.0		ND
Perfluorod	odecanoic acid (PFD	pA)	2.0		ND
Perfluoroh	eptanoic acid (PFHpA	N)	2.0		ND
Perfluoroh	exanesulfonic acid (P	FHxS)	1.0		4.30
Perfluoroh	exanoic acid (PFHxA)		1.0		1.53
Perfluoron	onanoic acid (PFNA)		2.0		ND
Perfluoroo	ctanesulfonic acid (Pf	FOS)	2.0		19.70
Perfluoroo	ctanoic acid (PFOA)		1.0		5.70
Perfluorote	tradecanoic acid (PF	TDA)	1.0		ND
Perfluorotr	idecanoic acid (PFTr[DA)	2.0		ND
Perfluorou	ndecanoic acid (PFUr	nDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/03/2020

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S:\EnviroFinal-Organics-PFAS.rl

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001445006

Method: EPA 537.1 - PFAS

Date Received:

11/24/2020

Date Collected: 11/23/2020

Field ID: FB0100023TP05 Submitted By: Holt Date Analyzed: 11/26/2020

Field ID:	FB01000231P05	Submitted By: Holt		Date Analy	/zed: 11/26/2020	
Contamin	<u>ant</u>		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaundecane-	1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid	(ADONA)	1.0		ND	
9-chlorohe	xadecafluoro-3-oxanonane	-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluord	ppropylene oxide dimer acid	(HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamidoad	cetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	erfluorooctanesulfonamido	acetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFHxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	tradecanoic acid (PFTDA)		1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND	

Comments:

Approved by:

Sadia Muneca

Approval date: 12/03/2020

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 $S: \label{lem:started} S: \label{lem:starte$

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Maryl MDH - Laboratories Ad	ministration	Ty u/z4/zo
	Division of Environmen ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	L LABORATORY) 4 1/24/20
L	ABORATORY ANALYS Please write I		
Bottle No.: 010-0025-790 PI	ant/Site Name: Wal	Kersville	County: Frederick
Location: POEC NEW WI	Sample So	urce:	Town or City
Collector/ID: Holf 63230	†		4164467432
County System No.	10 0 0	Plant No. Date Collected	Zo 1000 jpm Time Collected
Field Data: pH 68	Free CI:	Tota	n CI: 1, 9
☐ Private ☐ ☐ Community ☐ Non-Community	Stream Dist	rce (water) tribution (treated) or Treatment Plant POE CWA CERCLA	□ Oil □ Solid □ Other
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides) ☐ EPA Method 525.2 (Pesticides)	☐ Field Blank ☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite ☐ Potassium Citrate monobasic	,
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	- Field Blank	☐ Sodium thiosulfate	
EPA Method 524.2 (Volatiles) 37. EPAS E THMS	⊡ Freid Blank □ Trip Blank	□ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate Rep	
☐ EPA Method 8260 (VOCs)			
E21001445007 Received: 11/24/2020 EPA 537.1 Organics 0100025TP01	E21001445 Received: 11/24 Organics		
Remarks:	-to -	1 1	
ab Supervisor:		Date Re	ported://

•Phone: (443) 681-3857 •Fax: (443) 681-4507





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001445007

Method: EPA 537.1 - PFAS

Date Received:

11/24/2020

Date Collected: 11/23/2020

Field ID:

0100025TP01

Submitted By: Holt

Date Analyzed: 11/26/2020

Fleid ID:	01000251701	Submitted By: Holt		Date Anal	yzed: 11/26/2020	
Contamin	<u>iant</u>		<u>RL</u>	<u>MCL</u>	Result	
1-chloroei	cosafluoro-3-oxaunde	cane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic	acid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxand	onane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dime	er acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonan	nidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfona	amidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (Pl	FBS)	1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFD	pA)	2.0		ND	
Perfluoroh	eptanoic acid (PFHpA	N)	2.0		ND	
Perfluoroh	exanesulfonic acid (P	FHxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)	14	2.0		ND	
Perfluoroo	ctanesulfonic acid (PF	FOS)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PF	TDA)	1.0		ND	
Perfluorotr	idecanoic acid (PFTrD	DA)	2.0		ND	
Perfluorou	ndecanoic acid (PFUr	nDA)	1.0		ND	

Comments:

Approved by:

Approval date: 12/03/2020

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Lab No.: E21001445008

Method: EPA 537.1 - PFAS

Date Received:

11/24/2020

Date Collected: 11/23/2020

Field ID:	FB0100025TP01	Submitted By: Holt		Date Analy:	zed: 11/26/2020	
Contamin	ant		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaundeca	ne-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic ac	id (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanona	ne-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluoro	opropylene oxide dimer a	cid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamide	pacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonam	doacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFB	5)	1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFH	xS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0	2	ND	
Perfluoroo	ctanesulfonic acid (PFO	5)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	tradecanoic acid (PFTD	A)	1.0		ND	
Perfluorotri	idecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA	۸)	1.0		ND	

Comments:

Approved by:

Approval date: 12/03/2020

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Send Report to:	State of Maryl MDH - Laboratories Adi Division of Environmen ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	ministration tal Chemistry L LABORATORY enue	oerature Blank: <u>(, ひ</u> °C アケル/24/20
LA	ABORATORY ANALYS		97
4 50 7	,		
Bottle No.: 021-00/2-7P0Z PI		coll	County: Washington
Location: POGE WW	Sample So	urce:Street	Town or City
Collector/ID: Holt 63737H	a	Phone No.:	4164467437
0 2 1 0 0 1 2 0 2 County System No.		O 2 II / 23/202 Plant No. Date Collected	N30 mlpm Time Collected
Field Data: pH _ 6.9	Free CI: 0	9 Total	CI:_/_O
☐ Private ☐ ☐ Community ☐ Non-Community	Stream Dis	rce (water) tribution (treated) er Treatment Plant POE CWA CERCLA	□ Oil □ Solid □ Other □ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	□ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	-
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
PFAS	☐ Field Blank ☐ Trip Blank	□ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs)		yellow-FBS AMI	
E21001445009 Received: 11/24/2020 EPA 537.1 Organics 0210012TP02	E21001445 Received: 11/24/ Organics	010	
Remarks:	J L		
Lab Supervisor:		Date Rep	oorted:/

•Phone: (443) 681-3857

•Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001445009

Method: EPA 537.1 - PFAS

Date Received:

11/24/2020

Date Collected: 11/23/2020

Field ID: 0210012TP02 Submitted By: Holt Date Analyzed: 11/26/2020 Contaminant RL MCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 ND Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 ND Perfluorohexanoic acid (PFHxA) 1.0 ND Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 ND Perfluorotetradecanoic acid (PFTDA) 1.0 ND

Comments:

Approved by:

Approval date: 12/03/2020

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Perfluorotridecanoic acid (PFTrDA)

Perfluoroundecanoic acid (PFUnDA)

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Page 9 of 10

2.0

1.0

ND

ND





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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001445010

Method: EPA 537.1 - PFAS

Date Received:

11/24/2020

Date Collected: 11/23/2020

Field ID: FB02

FB0210012TP02

Submitted By: Holt

Date Analyzed: 11/26/2020

Fleid ID:	FB02100121P02	Submitted By: Holt		Date Analy	zed: 11/26/2020	
Contamir	nant		RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaundecane	-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid	(ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanonan	e-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dimer aci	d (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamidoa	cetic acid (N-EtFOSAA)	2.5		ND	
N-methyl ı	perfluorooctanesulfonamido	pacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	outanesulfonic acid (PFBS)		1.0		ND	
Perfluoroo	lecanoic acid (PFDA)		1.0		ND	
Perfluorod	lodecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	neptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFHxS	3)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND	
Perfluorotr	ridecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND	

Comments:

Approved by:

Approval date: 12/03/2020

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Send Report to:	State of Mary	rland Tem	perature Blank: 20°C
	MDH - Laboratories Ac Division of Environmen	dministration	AT 12/04/20
	ORGANICS ANALYTICA 1770 Ashland Av		
	BALTIMORE, MARY		E
LA	ABORATORY ANALYS Please write		
Bottle No.: 010-0030-TPo Pl	ant/Site Name: New	Design	County: Fred
Location: 1080 WTP	Sample So	ource:Street	Town or City
11 11			
Collector/ID: Holf 6373TH		Phone No.:	4104467432
County System No.	PWSID	Plant No. 12/1/203	ZO ZO/nm Time Collected
Field Data: pH 7.4	Free CI:	6 Tota	ICI:_ 7.]
Sample Type: Drinking water	Landfill □ Sou	irce (water)	□ Oil
• ••		stribution (treated)	□ Solid
Community 🗆		ter Treatment Plant POE	□ Other
□ Non-Community			
pecify Program: 🗷 SDWA 🗆 N	PDES RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
□ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
□ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
□ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	. I.
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
EPA Method 524.2 (Votatiles)533.1	☐ Field Blank ☐ Trip Blank	□ HI HGL TRIZMA □ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate Tree	
□ EPA Method 8260 (VOCs)		Oluc-1	
E21001504001 Received: 12/02/2020 EPA 537.1 Organics 010-0030-TP0	E210015040 Received: 12/02/2	02 02 020 EPA 537.1 FB-010-0030-	
•:			
emarks:			
			, II
	(442) 694 2057	Dute Rep	oorted://
•Phone:	(443) 681-3857	•Fax: (443) 681-4507	





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001504001

Method: EPA 537.1 - PFAS

Date Received:

12/02/2020

Date Collected: 12/01/2020

Field ID: 010-0030-TP01 Submitted By: Holt 6323JH Date Analyzed: 12/04/2020 Contaminant RL MCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 ND Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 1.00 Perfluorohexanoic acid (PFHxA) 1.0 1.35 Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 ND Perfluorotetradecanoic acid (PFTDA) 1.0 ND Perfluorotridecanoic acid (PFTrDA) 2.0 ND Perfluoroundecanoic acid (PFUnDA) 1.0 ND

Comments:

Approved by:

Approval date: 12/16/2020

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001504002

Method: EPA 537.1 - PFAS

Date Received:

12/02/2020

Date Collected: 12/01/2020

Field ID:

FR-010-0030-TP0

Submitted By: Holt 6323 IH

Data Analyzade 12/04/2020

Field ID:	FB-010-0030-150.	Submitted By:	Holt 6323JH		Date Analyzed:	12/04/2020
Contamin	an <u>t</u>			RL	MCL	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-sul	fonic acid (11CI-PF	3OUdS)	2.0		ND
4,8-dioxa-	3H-perfluorononanoic acid (ADC	NA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-su	lfonic acid (9CI-PF	3ONS)	2.0		ND
Hexafluord	ppropylene oxide dimer acid (HF	PO-DA)		1.0		ND
N-ethyl pe	rfluorooctanesulfonamidoacetic	acid (N-EtFOSAA)		2.5	e:	ND
N-methyl p	perfluorooctanesulfonamidoaceti	c acid (N-MeFOSA	A)	3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorod	ecanoic acid (PFDA)			1.0		ND
Perfluorod	odecanoic acid (PFDoA)			2.0		ND
Perfluoroh	eptanoic acid (PFHpA)			2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)			1.0		ND
Perfluoroh	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)			2.0		ND
Perfluoroo	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 12/16/2020

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Send Report to:	State of Mary MDH - Laboratories Ac	rland Tem	perature Blank: 2 °C A7 12/02/20
	Division of Environmen	······	17 12/02/20
	ORGANICS ANALYTICA 1770 Ashland Av		
	BALTIMORE, MARY	/LAND 21205	
L	ABORATORY ANALYS Please write		
		(0), -	County: Fæl
Location: POEE WTP	Sample So	ource: Well 15 only	Town or City
Collector/ID: Holt 6323 Mt	-	Phone No.: _	4104467432
County System No.	100018 PWSID	02 12/1/202 Plant No. Date Collected	900 apl/pm Time Collected
Field Data: pH 7.3	Free CI:	Total	ıcı:_1.4
Sample Type: Drinking water	Landfill □ Sou	irce (water)	□ Oil
□ Private □		tribution (treated)	□ Solid
Community		ter Treatment Plant POE	□ Other
□ Non-Community			
-2			
1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PDES RCRA	□ CWA □ CERCLA	☐ Consumer Products
Other	Field 8 Take Plant	I 5	
Test Requested ☐ EPA Method 504.1 (EDB/DBCP)	Field & Trip Blank ☐ Field Blank	Preservative Used	Comment
☐ EPA Method 508 [Aroclors (SCAN	☐ Field Blank	☐ Sodium thiosulfate	
only) & Toxaphene]	LI Fleid Blarik	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	8
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate☐	
☐ EPA Method 552.2 (Haloacetic acids) ☐ EPA Method 8270 (Semi-Volatiles)	☐ Field Blank	☐ Ammonium chloride ☐ Sodium thiosulfate	
☐ Pesticides ☐ Aroclors		- Socium mosuliate	
DERA Method 524.2 (Volatities) 5.3.7. I	☐ Field Blank ☐ Trip Blank	□ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate PLUE	
☐ EPA Method 8260 (VOCs)		185	
E21001504003 Received: 12/02/2020 EPA 537.1 Organics 010-0018-TP0	E21001504 Received: 12/02 Organics	004 2020 EPA 537.1 FB-010-0018-	
	J L		
emarks:			
ab Supervisor:		Date Ren	orted:/
		P	

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•Fax: (443) 681-4507





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001504003

Method: EPA 537.1 - PFAS

Date Received:

12/02/2020

Date Collected: 12/01/2020

010-0018-TP02 Field ID: Submitted By: Holt 6323JH Date Analyzed: 12/04/2020 Contaminant RL MCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 1.97 Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 ND Perfluorohexanoic acid (PFHxA) 1.0 1.85 Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 2.41 Perfluorooctanoic acid (PFOA) 1.0 1.95 Perfluorotetradecanoic acid (PFTDA) 1.0 ND Perfluorotridecanoic acid (PFTrDA) 2.0 ND

Comments:

Approved by:

Approval date: 12/16/2020

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Telephone: (443) 681 -3857

Perfluoroundecanoic acid (PFUnDA)

Fax: (443) 681-4507

Page 3 of 14

1.0

ND

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





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Lab No.: E21001504004

Method: EPA 537.1 - PFAS

Date Received:

12/02/2020

Date Collected: 12/01/2020

Field ID: FB-010-0018-TP02 Submitted By: Holt 6323JH Date Analyzed: 12/04/2020

1 teld 1D. 1 D-010-0018-1 F02	Submitted by: Holt 63233	<u> </u>	Date Anai	yzea: 12/04/2020	
Contaminant		RL	MCL	Result	
1-chloroeicosafluoro-3-oxaundecane-1-s	ulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-3H-perfluorononanoic acid (AD	OONA)	1.0		ND	
9-chlorohexadecafluoro-3-oxanonane-1-s	sulfonic acid (9Cl-PF3ONS)	2.0		ND	
Hexafluoropropylene oxide dimer acid (H	FPO-DA)	1.0		ND	
N-ethyl perfluorooctanesulfonamidoacetic	c acid (N-EtFOSAA)	2.5		ND	
N-methyl perfluorooctanesulfonamidoace	etic acid (N-MeFOSAA)	3.0		ND	
Perfluorobutanesulfonic acid (PFBS)		1.0		ND	
Perfluorodecanoic acid (PFDA)		1.0		ND	
Perfluorododecanoic acid (PFDoA)		2.0		ND	
Perfluoroheptanoic acid (PFHpA)		2.0		ND	
Perfluorohexanesulfonic acid (PFHxS)		1.0		ND	
Perfluorohexanoic acid (PFHxA)		1.0		ND	
Perfluorononanoic acid (PFNA)		2.0		ND	
Perfluorooctanesulfonic acid (PFOS)		2.0		ND	
Perfluorooctanoic acid (PFOA)		1.0		ND	
Perfluorotetradecanoic acid (PFTDA)		1.0		ND	
Perfluorotridecanoic acid (PFTrDA)		2.0		ND	
Perfluoroundecanoic acid (PFUnDA)		1.0		ND	

Comments:

Approved by:

Sadia Muneen

Approval date: 12/16/2020

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Page 4 of 14

Send Report to:	State of Maryl MDH - Laboratories Ad Division of Environmen ORGANICS ANALYTICA 1770 Ashland Av. BALTIMORE, MARY	ministration tal Chemistry LLABORATORY enue	perature Blank: 2 ² °C An 12l04L0
L	ABORATORY ANALYS Please write I		
Bottle No.: 010-0018-1902 PI	and the second		County: FREY
		urce: End + Where	
Collector/ID: Halt 632	SUF	Phone No.:	4104467432
County System No.	100018		20 930 mpm Time Collected
Field Data: pH 6.7	Free CI:	Tota	ıcı:1,2
□ Private □	Stream	tribution (treated) ter Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: CLSDWA D N	PDES RCRA	□ CWA □ CERCLA	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐, Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
EPA Method 624.2 (Volatilee) 537. \ VOCS	Field Blank Trip Blank	☐ 1:1 HCL + Ascorbic acid☐ Sodium thiosulfate BLUE	
☐ EPA Method 8260 (VOCs)			
E21001504005 Received: 12/02/2020 EPA 537.1 Organics 010-0018-TPC	E210015040 Received: 12/02/2 Organics	06	1
Remarks:	- 9		
Lab Supervisor:		Date Rep	ported://
•Phone:	(443) 681-3857	•Fax: (443) 681-4507	

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Lab No.: E21001504005

Method: EPA 537.1 - PFAS

Date Received:

12/02/2020

Date Collected: 12/01/2020

Field ID: 010 0010 TD02

Cubmitted Du

Field ID:	010-0018-TP02	Submitted By:	Holt 6323JH		Date Analyze	ed: 12/04/2020	
Contamin	<u>ant</u>			<u>RL</u>	MCL	Result	
1-chloroeid	cosafluoro-3-oxaundecane-1	-sulfonic acid (11Cl-Pl	=3OUdS)	2.0		ND	
4,8-dioxa-3	3H-perfluorononanoic acid (/	ADONA)		1.0		ND	
9-chlorohe	xadecafluoro-3-oxanonane-	1-sulfonic acid (9Cl-PF	F3ONS)	2.0		ND	
Hexafluord	propylene oxide dimer acid	(HFPO-DA)		1.0		ND	
N-ethyl per	rfluorooctanesulfonamidoace	etic acid (N-EtFOSAA)		2.5		ND	
N-methyl p	erfluorooctanesulfonamidoa	cetic acid (N-MeFOSA	∖A)	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)			1.0		1.85	
Perfluorode	ecanoic acid (PFDA)			1.0		ND	
Perfluorode	odecanoic acid (PFDoA)			2.0		ND	
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND	
Perfluoroh	exanesulfonic acid (PFHxS)			1.0		ND	
Perfluorohe	exanoic acid (PFHxA)			1.0		ND	
Perfluorono	onanoic acid (PFNA)			2.0		ND	
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND	
Perfluorood	ctanoic acid (PFOA)			1.0		ND	
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND	
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND	
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND	

Comments:

Approved by:

Approval date: 12/16/2020

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Lab No.: E21001504006

Method: EPA 537.1 - PFAS

Date Received:

12/02/2020

Date Collected: 12/01/2020

Field ID: FB-010-0018-TP02	Submitted By: H	olt 6323JH		Date Analyzed:	12/04/2020
Contaminant]	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfe	onic acid (11Cl-PF3	OUdS) 2	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADOI	NA)		1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sul	fonic acid (9Cl-PF30	ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFF	O-DA)	•	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic a	cid (N-EtFOSAA)	2	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic	acid (N-MeFOSAA)) :	3.0		ND
Perfluorobutanesulfonic acid (PFBS)		•	1.0		ND
Perfluorodecanoic acid (PFDA)		•	1.0		ND
Perfluorododecanoic acid (PFDoA)		2	2.0		ND
Perfluoroheptanoic acid (PFHpA)		2	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)		1	1.0		ND
Perfluorohexanoic acid (PFHxA)		1	1.0		ND
Perfluorononanoic acid (PFNA)		2	2.0		ND
Perfluorooctanesulfonic acid (PFOS)		2	2.0		ND
Perfluorooctanoic acid (PFOA)		1	1.0		ND
Perfluorotetradecanoic acid (PFTDA)		1	1.0		ND
Perfluorotridecanoic acid (PFTrDA)		2	2.0		ND
Perfluoroundecanoic acid (PFUnDA)		1	1.0		ND

Comments:

Approved by:

Approval date: 12/16/2020

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Page 6 of 14

Send Report to:	State of Mary MDH - Laboratories Ad Division of Environmer ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	Iministration stal Chemistry LLABORATORY enue	Temperature Blank: 2 C AT 12102/20
LA	ABORATORY ANALYS		
Bottle No.: 010-0018-7903 Pl	ant/Site Name: Mall	etown - Brookply	e County: Fred
Location: POE a WN	Sample So	urce: Walls 22d	23 Bath online)
Collector/ID: 48 + 6323	Dł	Phone I	No.: 4164467432
County System No.	100018	03 IZ/1 Plant No. Date Colle	/2070 [600 ppm]
Field Data: pH 7,4	Free CI:	1.3	Total CI: 1, 7
□ Private □	Stream Dis	rrce (water) tribution (treated) ter Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: DSDWA DWA	PDES RCRA	□ CWA □ CERC	LA Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	-
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate mono☐ Sodium thiosulfate	basic
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (SemI-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	1
EPA Method 524.2 (Volatiles) \$37.	☑ Field Blank □ Trip Blank	□ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate	٤
☐ EPA Method 8260 (VOCs)			
E21001504007 Received: 12/02/2020 EPA 537.1 Organics 010-0018-TPC	E21001504008 Received: 12/02/2020 Organics	1	
Remarks:	T 1 W 2		
(Dat	re Reported:/
	(443) 681-3857	•Fax: (443) 681-4507	

MDH98 (02/18)





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001504007

Method: EPA 537.1 - PFAS

Date Received: 12/02/2020

Date Collected: 12/01/2020

Field ID:	010-0018-TP03	Submitted By:	Holt 6323JH		Date Analyzed:	12/04/2020
Contamina	ant .			RL	MCL	Result
1-chloroeic	osafluoro-3-oxaundecane-1-si	ulfonic acid (11CI-P	F3OUdS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (AD	ONA)		1.0		ND
9-chlorohe:	xadecafluoro-3-oxanonane-1-s	sulfonic acid (9Cl-Pl	F3ONS)	2.0		ND
Hexafluoro	propylene oxide dimer acid (H	FPO-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic	acid (N-EtFOSAA))	2.5		ND
N-methyl p	erfluorooctanesulfonamidoace	tic acid (N-MeFOS	4A)	3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		3.09
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		3.66
Perfluorohe	exanoic acid (PFHxA)			1.0		1.93
Perfluorono	nanoic acid (PFNA)			2.0		ND
Perfluorood	tanesulfonic acid (PFOS)			2.0		5.49
Perfluorooo	tanoic acid (PFOA)			1.0		2.87
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluoroun	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 12/16/2020

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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001504008

Method: EPA 537.1 - PFAS

Date Received:

12/02/2020

Date Collected: 12/01/2020

Field ID: FB-010-0018-TP03

Submitted By: Holt 6323JH

Field ID:	FB-010-0018-TP03	Submitted By:	Holt 6323JH		Date Analy	zed: 12/04/2020	
Contamin	<u>ant</u>			RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaundecane-1-su	lfonic acid (11Cl-Pl	F3OUdS)	2.0		ND	
4,8-dioxa-3	BH-perfluorononanoic acid (ADC	DNA)		1.0		ND	
9-chlorohe	xadecafluoro-3-oxanonane-1-sı	ulfonic acid (9CI-Pf	F3ONS)	2.0		ND	
Hexafluoro	propylene oxide dimer acid (HF	PO-DA)		1.0		ND	
N-ethyl per	fluorooctanesulfonamidoacetic	acid (N-EtFOSAA)		2.5		ND	
N-methyl p	erfluorooctanesulfonamidoacet	c acid (N-MeFOSA	√A)	3.0		ND	
Perfluorobi	utanesulfonic acid (PFBS)			1.0		ND	
Perfluorode	ecanoic acid (PFDA)			1.0		ND	
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND	
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND	
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND	
Perfluorohe	exanoic acid (PFHxA)			1.0		ND	
Perfluorono	onanoic acid (PFNA)			2.0		ND	
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND	
Perfluorood	ctanoic acid (PFOA)			1.0		ND	
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND	
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND	
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND	

Comments:

Approved by:

Sadia Muneca

Approval date: 12/16/2020

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Send Report to:	State of Maryl MDH - Laboratories Adi Division of Environmen ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	ministration tal Chemistry LLABORATORY enue	perature Blank: <u>#2</u> °C ATIYOULO
LA	BORATORY ANALYS Please write I		
Bottle No.: Oll-002-701 PI	ant/Site Name: Boons	BOTO - WTP)	County: WASH
Location: POEQ wy	Sample So	urce:Street	Town or City
Collector/ID: Holf 6323J	H	Phone No.:	4104467432
County System No.		O 12 1207 Plant No. Date Collected	Time Collected
Field Data: pH 7	Free CI:	Total	ci: (.Z
☐ Private ☐ ☐ Community ☐ Non-Community	Stream □ Dis	trice (water) tribution (treated) ter Treatment Plant POE	□ Oil □ Solid □ Other
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
EPA Method 524-2 (Volatiles) 537. (VOCS THMS PDAS	□ Frield Blank □ Trip Blank	☐ 1:1 HCL + Ascorbic acid☐ Sodium thiosulfate Green	
☐ EPA Method 8260 (VOCs)			
E21001504009 Received: 12/02/2020 EPA 537.1 Organics 021-0002-TPC	E210015040 Received: 12/02/2 Organics	110 1020 EPA 537.1 FB-021-0002-	
Damarke	J L	4	
Remarks:			
Lab Supervisor:		Date Rep	oorted:/

Phone: (443) 681-3857

•Fax: (443) 681-4507





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001504009

Method: EPA 537.1 - PFAS

Date Received:

12/02/2020

Date Collected: 12/01/2020

Field ID: 021-0002-TP01	Submitted By: 1	12/01/2020 Holt 6323JH		Date Analyzed:	12/04/2020
Contaminant			<u>RL</u>	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfo	onic acid (11CI-PF	3OUdS)	2.0	74	ND
4,8-dioxa-3H-perfluorononanoic acid (ADO)	NA)		1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sul	fonic acid (9CI-PF	3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFP	O-DA)		1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic a	cid (N-EtFOSAA)		2.5		ND
N-methyl perfluorooctanesulfonamidoacetic	acid (N-MeFOSA	۹)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)			1.0		1.50
Perfluorodecanoic acid (PFDA)			1.0		ND
Perfluorododecanoic acid (PFDoA)			2.0		ND
Perfluoroheptanoic acid (PFHpA)			2.0		ND
Perfluorohexanesulfonic acid (PFHxS)			1.0		ND
Perfluorohexanoic acid (PFHxA)		197	1.0		ND
Perfluorononanoic acid (PFNA)			2.0		ND
Perfluorooctanesulfonic acid (PFOS)			2.0		ND
Perfluorooctanoic acid (PFOA)			1.0		1.03
Perfluorotetradecanoic acid (PFTDA)			1.0		ND
Perfluorotridecanoic acid (PFTrDA)			2.0		ND
Perfluoroundecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Sadia Muneca

Approval date: 12/16/2020

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^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001504010

Method: EPA 537.1 - PFAS

Date Received:

12/02/2020

Date Collected: 12/01/2020

Field ID: FR-021-0002-TPO Submitted By: Halt 6323 IH Data Analyzade 12/04/2020

Field ID:	FB-021-0002-1P0	Submitted By:	Holt 6323JH		Date Analyzed:	12/04/2020
Contamin	<u>ant</u>			RL	MCL	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-su	ulfonic acid (11CI-PF	3OUdS)	2.0		ND
4,8-dioxa-3	3H-perfluorononanoic acid (AD	ONA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-s	ulfonic acid (9Cl-PF	3ONS)	2.0		ND
Hexafluord	propylene oxide dimer acid (HI	FPO-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic	acid (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoace	tic acid (N-MeFOSA	A)	3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 12/16/2020

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Fax: (443) 681-4507

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Send Report to:	State of Maryl MDH - Laboratories Adi Division of Environmen ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	ministration tal Chemistry L LABORATORY enue	perature Blank: <mark>20°</mark> c AT 12162120
LA	ABORATORY ANALYS		
Bottle No.: 02 -0002-7703 Pl	ant/Site Name: Boos	boro- Verdysville	County: Wash
Location: POE & WP	Sample Sou	urce:Street	Town or City
Collector/ID: Holf 6323	40.	Phone No.:	4104467432
County System No.		Plant No. Date Collected	1100 mynm. Time Collected
Field Data: pH 7.8	Free CI:	Tota	ICI:
□ Private □ □ Community □ □ Non-Community	Stream Dist	rce (water) tribution (treated) er Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: 6-8DWA D N	PDES RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested ☐ EPA Method 504.1 (EDB/DBCP)	Field & Trip Blank ☐ Fleld Blank	Preservative Used	Comment
☐ EPA Method 508 [Aroclors (SCAN	☐ Field Blank	☐ Sodium thiosulfate	
only) & Toxaphene] □ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N)	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Sodium sulfite ☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	□ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
EPA Method 524.2 (Volatiles) 533.1	☐ Field Blank ☐ Trip Blank	□ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate Green	
☐ EPA Method 8260 (VOCs)		960	
E21001504011 Received: 12/02/2020 EPA 537.1 Organics 021-0002-TPC	E210015040 Received: 12/02/2 Organics	12	
=			
Remarks:			
Lab Supervisor:		Date Rep	ported:/
•Phone:	(443) 681-3857 ORIGINAL - LA	•Fax: (443) 681-4507 BORATORY	AS RECEIVED

SAMPLE TESTED AS RECEIVED





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001504011

Method: EPA 537.1 - PFAS

Date Received:

12/02/2020

Date Collected: 12/01/2020

Field ID: 021-0002-TP03

Culomateta of Device Library Canada

Field ID:	021-0002-TP03	Submitted By:	Holt 6323JH		Date Analyzed:	12/04/2020
Contamin	nant			RL	MCL	Result
1-chloroei	cosafluoro-3-oxaundecane-	1-sulfonic acid (11Cl-PF	3OUdS)	2.0		ND
4,8-dioxa-	3H-perfluorononanoic acid	(ADONA)		1.0		ND
9-chlorohe	exadecafluoro-3-oxanonane	-1-sulfonic acid (9Cl-PF	30NS)	2.0		ND
Hexafluor	opropylene oxide dimer acid	I (HFPO-DA)		1.0		ND
N-ethyl pe	rfluorooctanesulfonamidoa	cetic acid (N-EtFOSAA)		2.5		ND
N-methyl p	perfluorooctanesulfonamido	acetic acid (N-MeFOSA	A)	3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		1.52
Perfluorod	ecanoic acid (PFDA)			1.0		ND
Perfluorod	odecanoic acid (PFDoA)			2.0		ND
Perfluoroh	eptanoic acid (PFHpA)			2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)		1.0		1.70
Perfluoroh	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)			2.0		2.74
Perfluoroo	ctanoic acid (PFOA)			1.0		1.04
Perfluorote	etradecanoic acid (PFTDA)			1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 12/16/2020

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001504012

Method: EPA 537.1 - PFAS

Date Received:

12/02/2020

Date Collected: 12/01/2020

Field ID: FB-021-0002-TPO: Submitted By: Holt 6323JH Date Analyzed: 12/04/2020

Contaminant RL MCL Result

1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND

4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 ND Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 ND Perfluorohexanoic acid (PFHxA) 1.0 ND Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 ND Perfluorotetradecanoic acid (PFTDA) 1.0 ND

Comments:

Approved by:

Sadia Muneca

Approval date: 12/16/2020

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Telephone: (443) 681 -3857

Perfluorotridecanoic acid (PFTrDA)

Perfluoroundecanoic acid (PFUnDA)

Fax: (443) 681-4507

Page 12 of 14

2.0

1.0

ND

ND

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Maryl MDH - Laboratories Ad		perature Blank:°C
	Division of Environmen ORGANICS ANALYTICA	3	
	1770 Ashland Ave BALTIMORE, MARY	enue	
- L	ABORATORY ANALYS Please write I		
Bottle No.: 021-6007-7907 PI	ant/Site Name: Boows	sboro wyz	County: WASH
Location: 1080 WN	Sample So	urce: Well 8	Town or City
Collector/ID: Holf 1323]	 	Phone No.:	4104467452
County System No.	21000Z	OZ Plant No. Date Collected	Time Collected
Field Data: pH +.2	Free CI:	7 Total	ICI: 0,9
Sample Type: Drinking water	Landfill □ Sou	rce (water)	□ Oil
- User State Committee	Stream	tribution (treated)	□ Solid
Community	Soil/Sediment Wat	er Treatment Plant POE	□ Other
□ Non-Community			
Specify Program: USDWA D N	PDES RCRA	□ CWA □ CERCLA	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	1
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
EPA Method 524.2 (Volatiles) 637. (VOCS	ID Field Blank □ Trip Blank	□ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate Green	
☐ EPA Method 8260 (VOCs)			
THATTARA MATATARA KANTANI TOO HAA TAKA ANALAMITA ANA	F2100150404	I AN ANTANANA	
E21001504013			
Received: 12/02/2020 EPA 537.1 Organics 021-0002-TPC	Ossania 12/02/202	0 EPA 537.1 FB-021-0002-	
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ome author			
emarks:			
ab Supervisor:		Date Rep	orted:/
•Phone:	(443) 681-3857	•Fax: (443) 681-4507	

SAMPLE TESTED AS RECEIVED





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001504013

Method: EPA 537.1 - PFAS

Date Received: 12/02/2020

Date Collected: 12/01/2020

Field ID: 021-0002-TP02	Submitted By: Holt 6323JH		Date Analyzed:	12/09/2020
Contaminant		RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulf	onic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADO	NA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sul	fonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFF	PO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic a	cid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic	acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)		1.0		4.13
Perfluorodecanoic acid (PFDA)		1.0		ND
Perfluorododecanoic acid (PFDoA)		2.0		ND
Perfluoroheptanoic acid (PFHpA)		2.0		ND
Perfluorohexanesulfonic acid (PFHxS)		1.0		3.17
Perfluorohexanoic acid (PFHxA)		1.0		5.54
Perfluorononanoic acid (PFNA)		2.0		ND
Perfluorooctanesulfonic acid (PFOS)		2.0		2.74
Perfluorooctanoic acid (PFOA)		1.0		3.61
Perfluorotetradecanoic acid (PFTDA)		1.0		ND
Perfluorotridecanoic acid (PFTrDA)		2.0		ND
Perfluoroundecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by: Sacia Muneca

Approval date: 12/16/2020

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Page 13 of 14

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001504014

Method: EPA 537.1 - PFAS

Date Received: 12/02/2020

Date Collected: 12/01/2020

Field ID:	FB-021-0002-TP0;	Submitted By:	Holt 6323JH		Date Analyzed:	12/09/2020
Contamina	ant			RL	MCL	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfo	onic acid (11Cl-P	F3OUdS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (ADO	NA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-sul	fonic acid (9CI-PI	F3ONS)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFP	O-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic a	cid (N-EtFOSAA))	2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic	acid (N-MeFOS	AA)	3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	tanesulfonic acid (PFOS)			2.0		ND
Perfluorood	tanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 12/16/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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S:\EnviroFinal-Organics-PFAS.rl

Send Report to:	State of Mar MDH - Laboratories A Division of Environme ORGANICS ANALYTIC. 1770 Ashland A BALTIMORE, MAR	dministration ental Chemistry AL LABORATORY venue	nperature Blank: 1 °C A7 12/02/20
L	ABORATORY ANALYS Please write		
Bottle No.: 015-0005-TP0	Z Plant/Site Name:	SSC PATUKENT	County: MONT
Location: PATUXENT	Sample So	ource: 6101 SANDY	SPRING-RU LAUREL
Collector/ID: JOSEPHG	44884/10	Phone No.:	4104467324
O 1 5 O 0 5 O County System No.	150005 PWSID	Plant No. Date Collected	Time Collected
Field Data: pHO 7.0	Free CI:	O,2 Tota	ICI:
□ Private □ □/Community □ □ Non-Community	Stream	arce (water) tribution (treated) ter Treatment Plant POE	□ Oil □ Solid □ Other
□ Other	PDES RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	-
EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	*
☐ EPA Method 552.2 (Haloacetic acids) ☐ EPA Method 8270 (Semi-Volatiles)	☐ Field Blank	☐ Ammonium chloride	
☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8269 (WOCs) 537.1 PFAs	FIELD BLAWK	TRISBASE TRISHEL	
E21001507001 Received: 12/02/2020 EPA 537.1 Organics 015-0005-TPC	E2100150700 Received: 12/02/20 Organics	12	
emarks:		MII 8	
ab Supervisor:		Date Repo	orted:/
•Phone: (443) 681-3857 ORIGINAL - LAE	•Fax: (443) 681-4507 BORATORY	

MDH98 (02/18)





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001507001

Method: EPA 537.1 - PFAS

Date Received:

12/02/2020

Date Collected: 12/02/2020

Field ID: 015-0005-TP02	Submitted By: Joseph Gay		Date Analyze	ed: 12/09/2020
Contaminant		RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-si	ulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (AD	ONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-s	sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (H	FPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic	acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoace	tic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)		1.0		1.08
Perfluorodecanoic acid (PFDA)		1.0		ND
Perfluorododecanoic acid (PFDoA)		2.0		ND
Perfluoroheptanoic acid (PFHpA)		2.0		ND
Perfluorohexanesulfonic acid (PFHxS)		1.0		ND
Perfluorohexanoic acid (PFHxA)		1.0		1.98
Perfluorononanoic acid (PFNA)		2.0		ND
Perfluorooctanesulfonic acid (PFOS)		2.0		ND
Perfluorooctanoic acid (PFOA)		1.0		1.92
Perfluorotetradecanoic acid (PFTDA)	1.0		ND	
Perfluorotridecanoic acid (PFTrDA)		2.0		ND
Perfluoroundecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Approval date: 12/16/2020

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001507002

Method: EPA 537.1 - PFAS

Date Received: 12/02/2020

Date Collected: 12/02/2020

Field ID: FB-015-0005-TP0. Submitted By: Joseph Gay Date Analyzed: 12/09/2020

rield 1D: FB-013-0003-1P0. Submitted By: Joseph Gay		Date Anai	iyzea: 12/09/2020	
Contaminant	RL	MCL	Result	
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND	
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorobutanesulfonic acid (PFBS)	1.0		ND	
Perfluorodecanoic acid (PFDA)	1.0		ND	
Perfluorododecanoic acid (PFDoA)	2.0		ND	
Perfluoroheptanoic acid (PFHpA)	2.0		ND	
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND	
Perfluorohexanoic acid (PFHxA)	1.0		ND	
Perfluorononanoic acid (PFNA)	2.0		ND	
Perfluorooctanesulfonic acid (PFOS)	2.0		ND	
Perfluorooctanoic acid (PFOA)	1.0		ND	
Perfluorotetradecanoic acid (PFTDA)	1.0		ND	
Perfluorotridecanoic acid (PFTrDA)	2.0		ND	
Perfluoroundecanoic acid (PFUnDA)	1.0		ND	

Comments:

Approved by:

Sadia Muneca

Approval date: 12/16/2020

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		YLAND 21205	
	ABORATORY ANALYS		
Bottle No.: 015-0005-75			County:
Location: POTOMAC	Sample So	ource: 12200 RIVER	Town or City
Collector/ID: 105E PH (SAY 854/10	Phone No.: _	4104467324
County System No.		Plant No. Date Collected	
Field Data: pH O le. le	Free CI:	1,60 Total	ci: <u>7,3</u>
□ Private □	☐ Stream ☐ Dis☐ Soil/Sediment ☐ Wat	urce (water) stribution (treated) ter Treatment Plant POE CWA CERCLA	□ Oil □ Solid □ Other □ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only)`& Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides) ☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	-
	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate☐	*
EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8268 (VOCs) PFAS 5 3 7./	FIELDBLANK	TRIS BASE TRIS HEL	
E21001507003 Received: 12/02/2020 EPA 537.1 Organics 015-0005 TP0	E2100150700 Received: 12/02/202 Organics	4	
Remarks:	,		
-		Date Rep	orted:/





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001507003

Method: EPA 537.1 - PFAS

Date Received: Field ID:

12/02/2020

Date Collected: 12/02/2020

Field ID:	015-0005 TP01	Submitted By: Joseph Gay		Date Analy	zed: 12/09/2020	
Contamir	nant		<u>RL</u>	MCL	Result	
1-chloroei	cosafluoro-3-oxaundeca	ne-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic a	cid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanon	ane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dimer	acid (HFPO-DA)	1.0		ND	
N-ethyl pe	erfluorooctanesulfonamic	loacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonan	nidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	outanesulfonic acid (PFB	(S)	1.0		1.86	
Perfluorod	łecanoic acid (PFDA)		1.0		ND	
Perfluorod	lodecanoic acid (PFDoA	.)	2.0		ND	
Perfluoroh	neptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	nexanesulfonic acid (PFI	HxS)	1.0		2.39	
Perfluoroh	nexanoic acid (PFHxA)		1.0		3.57	
Perfluoron	nonanoic acid (PFNA)		2.0		ND	
Perfluoroo	octanesulfonic acid (PFC	PS)	2.0		3.83	
Perfluoroo	octanoic acid (PFOA)		1.0		3.35	
Perfluorote	etradecanoic acid (PFTI	DA)	1.0		ND	
Perfluoroti	ridecanoic acid (PFTrDA)	2.0		ND	
Perfluorou	ındecanoic acid (PFUnD	A)	1.0		ND	

Comments:

Approved by:

Approval date: 12/16/2020

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Telephone: (443) 681 -3857

Fax: (443) 681-4507

Page 3 of 4

 $S: \label{eq:special-organics-PFAS} S: \label{eq:special-organics-Organics-PFAS} S: \label{eq:special-organics-PFAS} S: \label{eq:specia$

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001507004

Method: EPA 537.1 - PFAS

Date Received: 12/02/2020

Date Collected: 12/02/2020

Field ID: FB-015-0005 TP0: Submitted By: Joseph Gay Date Analyzed: 12/09/2020

relation to the design of the submitted by: Soseph Gay		Dute And	172020	
Contaminant	RL	MCL	Result	
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND	
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorobutanesulfonic acid (PFBS)	1.0		ND	
Perfluorodecanoic acid (PFDA)	1.0		ND	
Perfluorododecanoic acid (PFDoA)	2.0		ND	
Perfluoroheptanoic acid (PFHpA)	2.0		ND	
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND	
Perfluorohexanoic acid (PFHxA)	1.0		ND	
Perfluorononanoic acid (PFNA)	2.0		ND	
Perfluorooctanesulfonic acid (PFOS)	2.0		ND	
Perfluorooctanoic acid (PFOA)	1.0		ND	
Perfluorotetradecanoic acid (PFTDA)	1.0		ND	
Perfluorotridecanoic acid (PFTrDA)	2.0		ND	
Perfluoroundecanoic acid (PFUnDA)	1.0		ND	

Comments:

Approved by:

Approval date: 12/16/2020

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^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Mary DHMH - Laboratories / Division of Environmer ORGANICS ANALYTIC, ² 1770 Ashland Av BALTIMORE, MARYLA	Administration ntal Chemistry AL LABORATORY venue	perature Blank: // 0°C TY 12/7/26
	ABORATORY ANALYS		
023-0001-01 Bottle No.: P	Please write lant/Site Name: Berlie	-Powellton	County: Wor
Location: WTP	Sample So	ource: 17-Powellton Ar	e Berling Town or City
Collector/ID: Kbasself		Phone No.:	410-868-622
County System No.		Plant No. 12 / 4/20 2	Time Collected
Field Data: pH	Free CI:	Serror Total	ici: 73 error
□ Private □ □ Community □ □ Non-Community	Stream	tribution (treated) ter Treatment Plant POE	□ Oil □ Solid □ Other
	PDES DRCRA	CWA CERCLA Sused to transfer u	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 515.4 (Herbicides)	☐ Field Blank	☐ Sodium sulfite	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate☐	
☐ EPA Method 552.2 (Haloacetic acids) ☐ EPA Method 8270 (Semi-Volatiles)	☐ Field Blank ☐ Field Blank	☐ Ammonium chloride ☐ Sodium thiosulfate	
☐ Pesticides ☐ Aroclors	T I I I I I I I I I I I I I I I I I I I	- Socialii irilosallate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 9200 (VOCs) 537.1	Field Blank	□ 1:1 HCL + Ascorbic acid	
E21001530001 Received: 12/07/2020 EPA 537.1 Organics 023000101	E210015300 Received: 12/07/ Organics		·
- Companyon],[
demarks:ab Supervisor:		D:4 P	autodo / /
•	(443) 681-3857	— Date Rep ●Fax: (443) 681-4507	orted:/

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SAMPLE TESTED AS RECEIVED





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001530001

Method: EPA 537.1 - PFAS

Date Received:

12/07/2020

Date Collected: 12/04/2020

023000101 Field ID: Submitted By: K. Bassett Date Analyzed: 12/09/2020 Contaminant RL MCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 1.17 Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 2.36 Perfluorohexanesulfonic acid (PFHxS) 1.0 1.45 Perfluorohexanoic acid (PFHxA) 1.0 3.15 Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 1.58 Perfluorotetradecanoic acid (PFTDA) 1.0 ND Perfluorotridecanoic acid (PFTrDA) 2.0 ND Perfluoroundecanoic acid (PFUnDA) 1.0

Comments:

pH measured > 7.5 and chlorine measured 4.0

Approved by:

Approval date: 12/16/2020

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S:\EnviroFinal-Organics-PFAS.r

ND

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001530002

Method: EPA 537.1 - PFAS

Date Received: 12/07/2020

Date Collected: 12/04/2020

Field ID: FB023000101 Submitted By: K. Bassett Date Analyzed: 12/09/2020

Fleid ID:	FB023000101	Submitted By: K. Bassett		Date Analy	yzed: 12/09/2020	
Contamin	ant		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaunde	cane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic	acid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxand	onane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluord	opropylene oxide dime	er acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonam	nidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfona	amidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PF	FBS)	1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDc	pA)	2.0		ND	
Perfluoroh	eptanoic acid (PFHpA	.)	2.0		ND	
Perfluoroh	exanesulfonic acid (P	FHxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PF	FOS)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PF	ΓDA)	1.0		ND	
Perfluorotr	idecanoic acid (PFTrD	PA)	2.0		ND	
Perfluorou	ndecanoic acid (PFUn	DA)	1.0		ND	

Comments:

Approved by:

Approval date: 12/16/2020

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Send Report to:	State of Maryl DHMH - Laboratories A Division of Environmen ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARYLA	dministration tal Chemistry LLABORATORY enue	© "T.Y. 12/7/20
	ABORATORY ANALYS		
023-0001-02	Please write I		
Bottle No.: Pl	ant/Site Name: Bed	in-Franklin (County: War
Location: WTP	Sample So	urce: 98 Franklin Av	-e Bedin
Collector/ID: KBusself	· ·	Phone No.:	410-868-6226
O23 System No.	2300J	Plant No. 12/4/202 Date Collected	95 Campun Time collected
Field Data: pH 7.4	Free CI:	<u>O 4 O</u> Total	CI:
Sample Type: Drinking water	Landfill □ Sou	arce (water)	□ Oil
		tribution (treated)	□ Solid
	Soil/Sediment □ Wat	ter Treatment Plant POE	□ Other
□ Non-Community			
Specify Program: SDWA D N	PDES DRCRA	CWA CERCLA	Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	41
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.4 (Herbicides)	☐ Field Blank	☐ Sodium sulfite	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate☐	.9
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 3200 (VOCs) 531.	Field Blank	☐ 1:1 HCL + Ascorbic acid	
E21001530003 Received: 12/07/2020 EPA 537.1 Organics 023000102	E21001530 Received: 12/07 Organics		
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Remarks:			
		Date Rep	ported:/
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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001530003

Method: EPA 537.1 - PFAS

Date Received:

12/07/2020

Date Collected: 12/04/2020

Field ID: 023000102 Submitted By: K. Bassett Date Analyzed: 12/09/2020

Field ID:	023000102	Submitted By: K. Basse	ett	Date Analyzed:	12/09/2020
Contamin	ant		RL	MCL	Result
1-chloroeid	cosafluoro-3-oxaur	ndecane-1-sulfonic acid (11Cl-PF3OUdS	3) 2.0		ND
4,8-dioxa-	3H-perfluorononan	oic acid (ADONA)	1.0		ND
9-chlorohe	xadecafluoro-3-ox	anonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoro	propylene oxide d	imer acid (HFPO-DA)	1.0		ND
N-ethyl per	fluorooctanesulfor	namidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl p	erfluorooctanesulf	onamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorob	utanesulfonic acid	(PFBS)	1.0		ND
Perfluorod	ecanoic acid (PFD	A)	1.0		ND
Perfluorod	odecanoic acid (Pl	FDoA)	2.0		ND
Perfluoroh	eptanoic acid (PFI	HpA)	2.0		ND
Perfluoroh	exanesulfonic acid	(PFHxS)	1.0		1.47
Perfluoroh	exanoic acid (PFH	×A)	1.0		ND
Perfluoron	onanoic acid (PFN	A)	2.0		ND
Perfluorood	ctanesulfonic acid	(PFOS)	2.0		ND
Perfluorood	ctanoic acid (PFO	A)	1.0		1.79
Perfluorote	tradecanoic acid (PFTDA)	1.0		ND
Perfluorotri	decanoic acid (PF	TrDA)	2.0		ND
Perfluorour	ndecanoic acid (Pf	FUnDA)	1.0		ND

Comments:

Approved by:

Sadia Muneca

Approval date: 12/16/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001530004

Method: EPA 537.1 - PFAS

Date Received:

12/07/2020

Date Collected: 12/04/2020

Field ID: FR023000102

Submitted Ry: K Raccott

Field ID:	FB023000102	Submitted By: K. Bassett		Date Analyz	ed: 12/09/2020	
Contamir	nant		RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaundeca	ne-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic ac	id (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanona	ne-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dimer a	icid (HFPO-DA)	1.0		ND	
N-ethyl pe	erfluorooctanesulfonamid	pacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonam	idoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	outanesulfonic acid (PFB	S)	1.0		ND	
Perfluorod	lecanoic acid (PFDA)		1.0		ND	
Perfluorod	lodecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFH	xS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFO	5)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFTD	A)	1.0		ND	
Perfluorotr	ridecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA	A)	1.0		ND	

Comments:

Approved by:

Approval date: 12/16/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Send Report to:	State of Maryla DHMH - Laboratories Ar Division of Environment ORGANICS ANALYTICA 1770 Ashland Ave	dministration al Chemistry L LABORATORY enue	erature Blank: $\frac{L \cdot \circ}{J \cdot 4} \cdot \circ$
L	BALTIMORE, MARYLAN ABORATORY ANALYSI Please write le	IS REQUEST FORM	
023 -0001 - 03 Pl	ant/Site Name: Berl	in-Branch	County: W
Location: W.79	Sample Sou	urce: 114 Bunch St	Town or City
Collector/ID: KBRSSOFF		Phone No.:	410-8684226
County System No.	23001 PWSID	Plant No. Date Collected	9 5 anyom Time collected
Field Data: pH 7, Y	Free CI:	Total	CI: 2.0
□ Private □	Stream	rce (water) ribution (treated) er Treatment Plant POE	□ Oil □ Solid
Spread and a second	PDES RCRA	CWA CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.4 (Herbicides)	☐ Field Blank	☐ Sodium sulfite	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8260 (VOCs)	☑ Field Blank	□ 1:1 HCL + Ascorbic acid	11
E21001530005 Received: 12/07/2020 EPA 537.1 Organics 023000103	E21001530 Received: 12/07 Organics		
			v ×
Remarks:			
Lab Supervisor:		Date Rep	oorted:/
•Phone:	(443) 681-3857 ORIGINAL - LA	•Fax: (443) 681-4507 ABORATORY SAMPLE TE	ESTED AS RECEIVED





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001530005

Method: EPA 537.1 - PFAS

Date Received:

12/07/2020

Date Collected: 12/04/2020

Field ID:	023000103	Submitted By:	K. Bassett	Date Analyzed:	12/09/2020
Contamin	ant		RL	MCL	Result
1-chloroeid	cosafluoro-3-oxaundecan	e-1-sulfonic acid (11CI-PF	3OUdS) 2.0		ND
4,8-dioxa-	3H-perfluorononanoic aci	d (ADONA)	1.0		ND
9-chlorohe	exadecafluoro-3-oxanona	ne-1-sulfonic acid (9Cl-PF	3ONS) 2.0		ND
Hexafluord	ppropylene oxide dimer a	cid (HFPO-DA)	1.0		ND
N-ethyl pe	rfluorooctanesulfonamido	acetic acid (N-EtFOSAA)	2.5		ND
N-methyl p	perfluorooctanesulfonami	doacetic acid (N-MeFOSA	A) 3.0		ND
Perfluorob	utanesulfonic acid (PFBS	3)	1.0		ND
Perfluorod	ecanoic acid (PFDA)		1.0		ND
Perfluorod	odecanoic acid (PFDoA)		2.0		ND
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND
Perfluoroh	exanesulfonic acid (PFH)	(S)	1.0		3.22
Perfluoroh	exanoic acid (PFHxA)		1.0		ND
Perfluoron	onanoic acid (PFNA)		2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS	5)	2.0		ND
Perfluoroo	ctanoic acid (PFOA)		1.0		1.40
Perfluorote	etradecanoic acid (PFTDA	٨)	1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/16/2020

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001530006

Method: EPA 537.1 - PFAS

Date Received:

12/07/2020

Date Collected: 12/04/2020

Field ID: FB023000103 Submitted By: K. Bassett Date Analyzed: 12/09/2020 Contaminant <u>RL</u> MCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 ND Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 ND Perfluorohexanoic acid (PFHxA) 1.0 ND Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 ND Perfluorotetradecanoic acid (PFTDA) 1.0 ND Perfluorotridecanoic acid (PFTrDA) 2.0 ND Perfluoroundecanoic acid (PFUnDA) 1.0 ND

Comments:

Approved by:

Approval date: 12/16/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Page 6 of 6

Send Report to: State of Maryland MDH - Laboratories Administration Division of Environmental Chemistry ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue BALTIMORE, MARYLAND 21205			perature Blank: OIS c
L	ABORATORY ANALYS Please write 1		
Bottle No.: 006-0019-7708 PI	ant/Site Name: Tuney7	town WTP 8	County: Carroll
Location: Plant	Sample So	urce: Sells Mill	Town or City
Collector/ID: Shown Lowmen			autor amost unasos.
0 0 6 0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Plant No. 120 Date Collected	
Field Data: pH	Free CI:	Total	ici: 2,3
		rce (water) tribution (treated)	□ Oil □ Solid
		ter Treatment Plant POE	
` □ Non-Community	Son/Sodiment La War	or reasonable rainer of	
Specify Program: SDWA D N	PDES RCRA	□ CWA □ CERCLA	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	□ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate☐	
☐ EPA Method 552.2 (Haloacetic acids) ☐ EPA Method 8270 (Semi-Volatiles)	☐ Field Blank	☐ Ammonium chloride	
☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8266 (VOCs) \$37.1	Field Blank	B Tizma	
E21001536001 Received: 12/08/2020 EPA 537.1 Organics 0060012TP08	E24004536	3002 8/2020 EPA 537.1 0060012TP08	
Sampletust	dueto labora	tong accident	Ros
Remarks: Customer und	pormed to	Dellet by	email 12/11/20)
Lab Supervisor:		Date Rep	oorted:/
•Phone:	(443) 681-3857	•Fax: (443) 681-4507	





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

0060012TP08

Lab No.: E21001536001

Method: EPA 537.1 - PFAS

Date Received:

Field ID:

12/08/2020

Date Collected: 12/08/2020

Submitted By: SHAWN LOWMAN

Date Analyzed:

Comments:

Approved by:

Sacia Muneca

Approval date: 12/23/2020

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001536002

Method: EPA 537.1 - PFAS

Date Received:

12/08/2020

Date Collected: 12/08/2020

Field ID: 0060012TP08FB

Submitted By: SHAWN LOWMAN Date Analyzed:

rieid iD:	OUBOUTZTPOSFB Submitted By: SHAWN	LOWMAN	Date Analy	/zed:
Contamin	<u>nant</u>	RL	MCL	Result
1-chloroei	cosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS	2.0		Rejected
4,8-dioxa-	3H-perfluorononanoic acid (ADONA)	1.0		Rejected
9-chlorohe	exadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		Rejected
Hexafluor	ppropylene oxide dimer acid (HFPO-DA)	1.0		Rejected
N-ethyl pe	rfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		Rejected
N-methyl բ	perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		Rejected
Perfluorob	utanesulfonic acid (PFBS)	1.0		Rejected
Perfluorod	ecanoic acid (PFDA)	1.0		Rejected
Perfluorod	odecanoic acid (PFDoA)	2.0		Rejected
Perfluoroh	eptanoic acid (PFHpA)	2.0		Rejected
Perfluoroh	exanesulfonic acid (PFHxS)	1.0		Rejected
Perfluoroh	exanoic acid (PFHxA)	1.0		Rejected
Perfluoron	onanoic acid (PFNA)	2.0		Rejected
Perfluoroo	ctanesulfonic acid (PFOS)	2.0		Rejected
Perfluoroo	ctanoic acid (PFOA)	1.0		Rejected
Perfluorote	etradecanoic acid (PFTDA)	1.0		Rejected
Perfluorotr	idecanoic acid (PFTrDA)	2.0		Rejected
Perfluorou	ndecanoic acid (PFUnDA)	1.0		Rejected

Comments:

Approved by:

Approval date: 12/23/2020

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Send Report to:	State of Maryla MDH - Laboratories Adr Division of Environment DRGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARYI	ministration ral Chemistry L LABORATORY raue	perature Blank: O(S) c
LA	BORATORY ANALYSI		
Bottle No.: 006.0012-TP01 Pla	ant/Site Name: Tuney?	town WTP 1	County: Carroll
Location: Plant	Sample Sou	arce: Anicus St.	Tuneytown Town or City
Collector/ID: Shawa Lownin	1	00765L Phone No.:	410-294-7884
O O O O O O O O O O O O O O O O O O O		Plant No. 12 / 8 /20 a	
Field Data: pH 7.9	Free CI:	1.2 Tota	1 CI:
☐ Private ☐ Community ☐ Non-Community Specify Program: ☑ SDWA ☐ N	Stream Dist Soil/Sediment Wat	rce (water) tribution (treated) er Treatment Plant POE	□ Other
☐ Other Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 9260 (VOCs) 537.1	Field Blank	Breen Breen	
E21001536003 Received: 12/08/2020 EPA 537.1 Organics 0060012TP0	E210015360 Received: 12/08/2		
Remarks:	J		1
Lab Supervisor:		Date D	ported: / /
•	(443) 681-3857	•Fax: (443) 681-4507	ported://





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001536003

Method: EPA 537.1 - PFAS

Date Received:

12/08/2020

Date Collected: 12/08/2020

Field ID: 0060012TP01 Submitted By: SHAWN LOWMAN Date Analyzed: 12/15/2020 Contaminant MCL RL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 2.65 Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 ND Perfluorohexanoic acid (PFHxA) 1.0 1.55 Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 2.98 Perfluorotetradecanoic acid (PFTDA) 1.0 ND Perfluorotridecanoic acid (PFTrDA) 2.0 ND Perfluoroundecanoic acid (PFUnDA) 1.0 ND

Comments:

Approved by:

Approval date: 12/23/2020

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Date Analyzed: 12/15/2020

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

0060012TP01FB

Lab No.: E21001536004

Method: EPA 537.1 - PFAS

Date Received:

Field ID:

12/08/2020

Date Collected: 12/08/2020

SHAWN LOWMAN

Submitted By:

Contaminant MCL RL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 ND Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 ND Perfluorohexanoic acid (PFHxA) 1.0 ND Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 ND

Comments:

Approved by: Sadia Mune

Perfluorotetradecanoic acid (PFTDA)

Perfluorotridecanoic acid (PFTrDA)

Perfluoroundecanoic acid (PFUnDA)

Approval date: 12/23/2020

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Page 4 of 8

1.0

2.0

1.0

S:\EnviroFinal-Organics-PFAS.r|

ND

ND

ND

Send Report to:	State of Mary MDH - Laboratories Ad Division of Environmer ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY ABORATORY ANALYS Please write	Iministration Ital Chemistry LL ABORATORY enue PLAND 21205		perature Blank: Dd 'c
Rottle No. Oph- 0012-TP02 DI	ant/Site Name: Tungue	town WTP 2		Cucall
Bottle No.: <u>006-0017-770</u> 7 Pl Location: <u>Plan</u> †	Sample So	urce: Carroll He	ights Ro	Toneytown
Collector/ID: Shawn Lowmin				
006 0012 00 County System No.	0 6 0 0 1 2 PWSID	Plant No. Date	8 /20 2	O 800 (any pun)
Field Data: pH	Free CI:	8		
□ Private □	Stream Dis	rce (water) tribution (treated) ter Treatment Plant P		□ Oil □ Solid □ Other
Specify Program: SDWA D N	PDES RCRA	□ CWA □ C	ERCLA	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative U	sed	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	9	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate		
EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite		1
EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate r ☐ Sodium thiosulfate	nonobasic	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride)	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate		
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic ☐ Sodium thiosulfate	acid	1
EPA Method-8268 (VOCs) 537./	of Field Blank	Or Trizma Green		
E21001536005 Received: 12/08/2020 EPA 537.1 Organics 0060012TP0:	E2100153600 Received: 12/08/20: Organics	6		
				KI .

Remarks:

Lab Supervisor:

Date Reported: ____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED





ND

ND

7.63

4.03

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001536005

Method: EPA 537.1 - PFAS

Date Received:

12/08/2020

4,8-dioxa-3H-perfluorononanoic acid (ADONA)

Perfluorobutanesulfonic acid (PFBS)

9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)

Date Collected: 12/08/2020

0060012TP02 Field ID: Submitted By: SHAWN LOWMAN Date Analyzed: 12/12/2020 Contaminant MCL RLResult 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND

1.0

2.0

1.0

Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND

Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND

Perfluoroheptanoic acid (PFHpA) 2.0 2.72 Perfluorohexanesulfonic acid (PFHxS) 1.0 3.00 Perfluorohexanoic acid (PFHxA) 1.0

Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 7.99

Perfluorooctanoic acid (PFOA) 1.0 6.58 Perfluorotetradecanoic acid (PFTDA) 1.0 ND

Perfluorotridecanoic acid (PFTrDA) 2.0 ND Perfluoroundecanoic acid (PFUnDA) 1.0 ND

Comments:

Approved by:

Approval date: 12/23/2020

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Lab No.: E21001536006

Method: EPA 537.1 - PFAS

Date Received:

12/08/2020

Date Collected: 12/08/2020

Field ID: 0060012TP02FB Submitted By: SHAWN LC		Date Analy	zed: 12/12/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sacia Muneca

Approval date: 12/23/2020

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Send Report to:	State of Maryl MDH - Laboratories Adi Division of Environmen ORGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARY	Administration nental Chemistry CAL LABORATORY Avenue		
LA	ABORATORY ANALYS Please write I			
Bottle No.: 006-0012-7005 PI	ant/Site Name:	town WTPS	County: <u>Carroll</u>	
Bottle No.: 006-0012-7005 Pt Location: Plu ₁ +	Sample So	urce: Pump House Rd	Tuneytown Town or City	
Collector/ID: Shows Lowmer	007650	Phone No.:	410-294-7884	
0 0 6 0 0 1 2 0 0	PWSID	0 5 13 / 8 /20 2 Plant No. Date Collected	7) S any pm Time Collected	
Field Data: pH S.O	Free CI:	Total	ci: 2.0	
☐ Private ☐ Community ☐ Non-Community	Stream	rce (water) tribution (treated) ter Treatment Plant POE	□ Oil □ Solid □ Other	
Test Requested	Field & Trip Blank	Preservative Used	Comment	
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	177	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite		
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate		
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride		
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	25	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate		
EPA Method 9269 (VOCs) 5 3.7. / PFA 5	E Field Blunk	Trizma Yellow		
E21001536007 Received: 12/08/2020 EPA 537.1 Organics 0060012TP0	E2100153600 Received: 12/08/20 Organics	8		
Remarks:	TIP Tree		= +3	
	(443) 681-3857	Date Rep •Fax: (443) 681-4507	ported://	

ORIGINAL - LABORATORY

SAMPLE TEST BU AD RECULEVEAU





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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001536007

Method: EPA 537.1 - PFAS

Date Received: 1

12/08/2020

Date Collected: 12/08/2020

Field ID: 0060012TP05 Submit	ted By: SHAWN LOV		Date Analyze	ed: 12/19/2020
Contaminant		RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	(11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)		1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic aci	d (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)		1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-E	tFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-	-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)		1.0		2.14
Perfluorodecanoic acid (PFDA)		1.0		ND
Perfluorododecanoic acid (PFDoA)		2.0		ND
Perfluoroheptanoic acid (PFHpA)		2.0		ND
Perfluorohexanesulfonic acid (PFHxS)		1.0		1.00
Perfluorohexanoic acid (PFHxA)		1.0		1.06
Perfluorononanoic acid (PFNA)		2.0		ND
Perfluorooctanesulfonic acid (PFOS)		2.0		3.79
Perfluorooctanoic acid (PFOA)		1.0		1.96
Perfluorotetradecanoic acid (PFTDA)		1.0		ND
Perfluorotridecanoic acid (PFTrDA)		2.0		ND
Perfluoroundecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Approval date: 12/23/2020

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001536008

Method: EPA 537.1 - PFAS

Date Received:

12/08/2020

Date Collected: 12/08/2020

Field ID: 0060012TP05FB Submitted Bv: SHAWN LOWMAN Date Analyzed: 12/12/2020

Field ID:	0060012TP05FB	Submitted By: S	HAWN LOWMAN	Date Ana	lyzed: 12/12/2020	
Contamin	ant		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaundecane-1-su	ulfonic acid (11CI-PF3	3OUdS) 2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid (AD	ONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanonane-1-s	ulfonic acid (9CI-PF3	ONS) 2.0		ND	
Hexafluoro	opropylene oxide dimer acid (HI	FPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamidoacetic	acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonamidoace	tic acid (N-MeFOSAA	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFHxS)		1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND	

Comments:

Approved by: Sacra Muneca

Approval date: 12/23/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Telephone: (443) 681 -3857

Fax: (443) 681-4507

Page 8 of 8

Send Report to:	State of Maryl MDH - Laboratories Adi Division of Environmen ORGANICS ANALYTICA 1770 Ashland Av. BALTIMORE, MARY	ministration tal Chemistry L LABORATORY enue	perature Blank: () & °C
LA	ABORATORY ANALYS Please write I		
Bottle No.: 006-0012-7103 Pl. Location: Must	ant/Site Name: Tuney	town WTA 3	County: <u>Carroll</u>
Collector/ID: Shown Lowner	6	0765L Phone No.: _	410-294-7884
0 0 6 0 0 1 2 0 0 0 County System No.	0 6 0 0 1 2 PWSID	0 3 1 2 / 8 /20 5 Plant No. Date Collected	20 850 milypm Time Collected
Field Data: pH	Free CI:	1,7 Total	ıcı:1,7
Private Community Non-Community	Stream Dis	rce (water) tribution (treated) er Treatment Plant POE	□ Oil □ Solid □ Other
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Arociors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N)	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Sodium sulfite ☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Arcclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8260 (VOCs) 5'37./	Field Blank	Trizma Yellow	
E21001537001 Received: 12/08/2020 EPA 537.1 Organics 0060012TP03	E21001537002 Received: 12/08/2020 Organics	ARE AND ADDRESS.	
Remarks: from Well 11 10	4 L	£ 60 10	
Lab Supervisor:	aning at time		ported:/

•Phone: (443) 681-3857

Fax: (443) 681-4507





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001537001

Method: EPA 537.1 - PFAS

Date Received: 12/08/2020

Date Collected: 12/08/2020

Field ID: 0060012TP03

Submitted By: SHAWN LOWMAN Date Analyzed: 12/12/2020

Fleid ID:	00600121703	Submitted By: SHAWI	N LOWMAN	Date Analyzed:	12/12/2020
Contamir	nant		RL	MCL	Result
1-chloroei	cosafluoro-3-oxaundecane-	1-sulfonic acid (11Cl-PF3OUdS	3) 2.0		ND
4,8-dioxa-	3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohe	exadecafluoro-3-oxanonane-	-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluor	opropylene oxide dimer acid	(HFPO-DA)	1.0		ND
N-ethyl pe	erfluorooctanesulfonamidoac	etic acid (N-EtFOSAA)	2.5		ND
N-methyl	perfluorooctanesulfonamidoa	acetic acid (N-MeFOSAA)	3.0		ND
Perfluorob	outanesulfonic acid (PFBS)		1.0		1.71
Perfluoroc	decanoic acid (PFDA)		1.0		ND
Perfluoroc	lodecanoic acid (PFDoA)		2.0		ND
Perfluoroh	neptanoic acid (PFHpA)		2.0		ND
Perfluoroh	nexanesulfonic acid (PFHxS)		1.0		7.99
Perfluoroh	exanoic acid (PFHxA)		1.0		2.10
Perfluoron	onanoic acid (PFNA)		2.0		ND
Perfluoroo	octanesulfonic acid (PFOS)		2.0		14.93
Perfluoroo	octanoic acid (PFOA)		1.0		3.60
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND
Perfluorotr	ridecanoic acid (PFTrDA)		2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Approval date: 12/16/2020

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Lab No.: E21001537002

Method: EPA 537.1 - PFAS

Date Received: 12/08/2020

Date Collected: 12/08/2020

Field ID: 0060012TP03FB Submitted By: SHAWN LOWMAN Date Analyzed: 12/12/2020

Field ID:	0060012TP03FB	Submitted By:	SHAWN LOWMAN	Date Analyzed	: 12/12/2020
Contamin	ant		RL	MCL	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-sulf	onic acid (11Cl-PF	3OUdS) 2.0		ND
4,8-dioxa-3	3H-perfluorononanoic acid (ADO	NA)	1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-su	lfonic acid (9Cl-PF	3ONS) 2.0		ND
Hexafluoro	propylene oxide dimer acid (HFF	PO-DA)	1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic a	acid (N-EtFOSAA)	2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetio	acid (N-MeFOSA	A) 3.0		ND
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND
Perfluorode	ecanoic acid (PFDA)		1.0		ND
Perfluorode	odecanoic acid (PFDoA)		2.0		ND
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)		1.0		ND
Perfluorohe	exanoic acid (PFHxA)		1.0		ND
Perfluoron	onanoic acid (PFNA)		2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)		2.0		ND
Perfluorood	ctanoic acid (PFOA)		1.0		ND
Perfluorote	tradecanoic acid (PFTDA)		1.0		ND
Perfluorotri	decanoic acid (PFTrDA)		2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Sadia Muneca

Approval date: 12/16/2020

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Page 2 of 8

	State of Maryla MDH - Laboratories Adr Division of Environment ORGANICS ANALYTICA: 1770 Ashland Ave BALTIMORE, MARYI ABORATORY ANALYSI Please write le	ninistration al Chemistry L LABORATORY nue LAND 21205	perature Blank: OT°C C 12/8/10				
Bottle No.: 006 0012-7P06 Pl	ant/Site Name: Taney	town WTP 6	County:				
Bottle No.: 006.0017-7P06 Pl Location: Plunt	Sample Sou	arce: Clubside Drive	Tuneytown				
Collector/ID: Shaw Lowner	Collector/ID: Shawn Lowner 00765L Phone No.: 410-294-7884						
Field Data: pH 7,7	Free CI:	3.4 Total	ci: 3.4				
Sample Type:							
☐ Other Test Requested	Fleld & Trip Blank	Preservative Used	Comment				
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	Consideration				
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate					
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate					
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	4				
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate					
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride					
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	OF .	☐ Sodium thiosulfate					
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate					
© EPA Method 9260 (VOCc) 537.1	E Field Blunk	Dirizma Green					
E21001537003 Received: 12/08/2020 EPA 537.1 Organics 0060012TP06	E2100153700 Received: 12/08/20 Organics	DELICATION AND AND AND AND AND AND AND AND AND AN					

Remarks:

•Phone: (443) 681-3857

•Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

Date Reported: ____/_

Lab Supervisor:





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001537003

Method: EPA 537.1 - PFAS

Date Received: 12/0

12/08/2020

Date Collected: 12/08/2020

Field ID: 0060012TP06 Submitted By: SHAWN LOWMAN Date Analyzed: 12/12/2020

Field ID:	00600121706	Submitted By: SHAWI	N LOWMAN	Date Analyzed:	12/12/2020
Contamin	<u>ant</u>		<u>RL</u>	MCL	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-sulf	onic acid (11Cl-PF3OUdS	3) 2.0		ND
4,8-dioxa-	3H-perfluorononanoic acid (ADO	NA)	1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-sul	fonic acid (9CI-PF3ONS)	2.0		ND
Hexafluord	ppropylene oxide dimer acid (HFF	PO-DA)	1.0		ND
N-ethyl per	rfluorooctanesulfonamidoacetic a	acid (N-EtFOSAA)	2.5		ND
N-methyl p	perfluorooctanesulfonamidoacetic	acid (N-MeFOSAA)	3.0		ND
Perfluorob	utanesulfonic acid (PFBS)		1.0		6.49
Perfluorod	ecanoic acid (PFDA)		1.0		ND
Perfluorod	odecanoic acid (PFDoA)		2.0		ND
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)		1.0		ND
Perfluoroh	exanoic acid (PFHxA)		1.0		ND
Perfluoron	onanoic acid (PFNA)		2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		2.05
Perfluoroo	ctanoic acid (PFOA)		1.0		2.52
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Sadia Muneca

Approval date: 12/16/2020

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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001537004

Method: EPA 537.1 - PFAS

Date Received:

12/08/2020

Date Collected: 12/08/2020

Field ID:	0060012TP06FB	Submitted By:	SHAWN LOW	MAN	Date Analyzed:	12/12/2020
Contamin	<u>ant</u>			RL	MCL	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-sul	fonic acid (11Cl-P	F3OUdS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (ADO	NA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-su	lfonic acid (9Cl-Pl	F3ONS)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFI	PO-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic a	acid (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetio	c acid (N-MeFOS	4A)	3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND
Fernation	Idecarrold acid (FFUIIDA)			1.0		טט

Comments:

Approval date: 12/16/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Send Report to.	MDH - Laboratories Adi MDH - Laboratories Adi Division of Environmeni ORGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARY	ministration tal Chemistry L LABORATORY enue	© 148/w
LA	ABORATORY ANALYS. Please write l		
Bottle No.: 006 0012-707 Pl	ant/Site Name: Tuney	town WTP 7	County:
Location: Plant	Sample Sou	urce: Hayrise Lane Street	Town or City
Collector/ID: Show Lowner	0076 SL	Phone No.:	410-294-7884
O O 6 O O I D O C	0 6 0 0 1 2 PWSID	Plant No. Date Collected	7 7 Time Collected
Field Data: pH	Free CI:	Total	ci:
□ Private □ □ Community □ □ Non-Community	Stream	rce (water) tribution (treated) er Treatment Plant POE	□ Oil □ Solid □ Other
Other	TDES LIKERA	- CWA - CERCEA	E Consumer Froducts
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	×
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
□ EPA Method 552.2 (Haloacetic acids) □ EPA Method 8270 (Semi-Volatiles) □ Pesticides □ Aroclors	☐ Field Blank	☐ Ammonium chloride ☐ Sodium thiosulfate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs.	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8260 (VOCs) 537.1	Of Field Blank	X Trizma Yellow	
E21001537005 Received: 12/08/2020 EPA 537.1 Organics 0060012TP07	E2100153700 Received: 12/08/20	MINIMAN INTO	
			TA CONTRACTOR
Remarks:			
Lab Supervisor:		Date Rep	oorted:/
•Phone:	(443) 681-3857 ORIGINAL - LA	•Fax: (443) 681-4507	





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001537005

Method: EPA 537.1 - PFAS

Date Received:

12/08/2020

Date Collected: 12/08/2020

Field ID:	0060012TP07	Submitted By:	SHAWN LOW	MAN	Date Analyzed:	12/12/2020
Contamin	<u>ant</u>			RL	MCL	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-sul	fonic acid (11CI-P	F3OUdS)	2.0		ND
4,8-dioxa-	3H-perfluorononanoic acid (ADC	NA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-su	lfonic acid (9Cl-Pl	F3ONS)	2.0		ND
Hexafluoro	ppropylene oxide dimer acid (HF	PO-DA)		1.0		ND
N-ethyl per	rfluorooctanesulfonamidoacetic	acid (N-EtFOSAA))	2.5		ND
N-methyl p	erfluorooctanesulfonamidoaceti	c acid (N-MeFOS	4A)	3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		11.15
Perfluorod	ecanoic acid (PFDA)			1.0		ND
Perfluorod	odecanoic acid (PFDoA)			2.0		ND
Perfluoroh	eptanoic acid (PFHpA)			2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)			1.0		ND
Perfluoroh	exanoic acid (PFHxA)			1.0		1.70
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)			2.0		ND
Perfluoroo	ctanoic acid (PFOA)			1.0		3.59
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 12/16/2020

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001537006

Method: EPA 537.1 - PFAS

Date Received:

12/08/2020

Date Collected: 12/08/2020

Field ID:	0060012TP07FB	Submitted By:	SHAWN LOW	'MAN	Date Analyzed:	12/12/2020
Contamin	<u>ant</u>			RL	MCL	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-sul	fonic acid (11CI-P	F3OUdS)	2.0		ND
4,8-dioxa-3	3H-perfluorononanoic acid (ADC	NA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-su	ılfonic acid (9Cl-Pl	F3ONS)	2.0		ND
Hexafluoro	ppropylene oxide dimer acid (HF	PO-DA)		1.0		ND
N-ethyl per	rfluorooctanesulfonamidoacetic	acid (N-EtFOSAA))	2.5		ND
N-methyl p	perfluorooctanesulfonamidoaceti	c acid (N-MeFOS	4A)	3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorod	ecanoic acid (PFDA)			1.0		ND
Perfluorode	odecanoic acid (PFDoA)			2.0		ND
Perfluoroh	eptanoic acid (PFHpA)			2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	idecanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 12/16/2020

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Send Report to:	State of Maryl	and Temp	perature Blank: <u>OO</u> *C
	MDH - Laboratories Ad Division of Environmen ORGANICS ANALYTICA	tal Chemistry	61218/w
	ORGANICS ANADI TICA 1770 Ashland Av BALTIMORE, MARY	enue	- (
	ABORATORY ANALYS		
	Please write I	egibly	
Bottle No.: 006-0013- TP04 Pl			
Location: Mant	Sample So	urce: 104 W. Locust St	Union Bilye Town or City
Collector/ID: Shawn Lowman	0076	5L Phone No.:	4.0- 244- 7884
County System No.			1020(m) pm Time Collected
Field Data: pH	Free CI:	Total	CI:/.8
Sample Type: Drinking water	Landfill □ Sou	rce (water)	□ Oil
		tribution (treated)	□ Solid
•	Soil/Sediment	ter Treatment Plant POE	□ Other
□ Non-Community			
Specify Program: SDWA N	PDES RCRA	□ CWA □ CERCLA	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	*:	☐ Sodium thiosulfate	.,
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8269 (VOCs) 5 37.1 PEAS	OF Field Blank	Trizma Green	
E21001537007 Received: 12/08/2020 EPA 537.1 Organics 0060013TP04	E2100153 Received: 12/0 Organics	7008 8/2020 EPA 537.1 0060013TP04	•
Remarks:			
Lab Supervisor:		Date Rep	orted:/
•Phone:	(443) 681-3857	•Fax: (443) 681-4507	8

ORIGINAL - LABORATORY





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001537007

Method: EPA 537.1 - PFAS

Date Received:

d: 12/08/2020

Date Collected: 12/08/2020

Field ID: 0060013TP04 Submitted By: SHAWN LOWMAN Date Analyzed: 12/12/2020

Field ID:	0060013TP04	Submitted By:	SHAWN LOWMAN	Date Analyzed:	12/12/2020
Contamin	ant_		RL	MCL.	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-sult	fonic acid (11CI-PI	F3OUdS) 2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (ADO	NA)	1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-su	lfonic acid (9Cl-PF	3ONS) 2.0		ND
Hexafluoro	propylene oxide dimer acid (HFI	PO-DA)	1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic a	acid (N-EtFOSAA)	2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetio	c acid (N-MeFOSA	AA) 3.0		ND
Perfluorob	utanesulfonic acid (PFBS)		1.0		3.54
Perfluorode	ecanoic acid (PFDA)		1.0		ND
Perfluorodo	odecanoic acid (PFDoA)		2.0		ND
Perfluorohe	eptanoic acid (PFHpA)		2.0		2.16
Perfluorohe	exanesulfonic acid (PFHxS)		1.0		8.81
Perfluorohe	exanoic acid (PFHxA)		1.0		3.50
Perfluorono	onanoic acid (PFNA)		2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)		2.0		16.43
Perfluorood	ctanoic acid (PFOA)		1.0		4.86
Perfluorote	tradecanoic acid (PFTDA)		1.0		ND
Perfluorotri	decanoic acid (PFTrDA)		2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Sadia Muneca

Approval date: 12/16/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call 443-681-3857 and arrange for return or destruction.

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Page 7 of 8

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001537008

Method: EPA 537.1 - PFAS

Date Received:

12/08/2020

Date Collected: 12/08/2020

Field ID: 0060013TP04FB Submitted By: S	HAWN LOWMAN	Date Analyzed:	12/12/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3	3OUdS) 2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3	ONS) 2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSA	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/16/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call 443-681-3857 and arrange for return or destruction.

Telephone: (443) 681 -3857

Fax: (443) 681-4507

Page 8 of 8

S:\EnviroFinal-Organics-PFAS.rl

Send Report to:	State of Mary MDH - Laboratories Ad Division of Environmer ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	ntal Chemistry LLABORATORY enue	aperature Blank: 2.0 c AF 12 9 20
	ABORATORY ANALYS Please write		
Bottle No.: 007-0249-71. Location: WELLS 1+2	PO) ant/Site Name: M13	TY MEADOWS 2	County: <u>C</u> EC/L
Location: WELLS 172	Sample So	urce:Street	PORT DEPOS
Collector/ID: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	GAY 8841	Phone No.:	410446 7324
County System No.	70249 PWSID	7 P 0 / /2 /9 /20; Plant No. Date Collected	1 -
Field Data: pH	Free CI:	O.7 Tota	al CI:/_
□ Private □	Stream □ Dis Soil/Sediment □ Wat	tribution (treated) ter Treatment Plant POE CWA CERCLA	□ Oil □ Solid □ Other □ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
□ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate☐	
☐ EPA Method 552.2 (Haloacetic acids) ☐ EPA Method 8270 (Semi-Volatiles)	□ Field Blank	☐ Ammonium chloride ☐ Sodium thiosulfate	
☐ Pesticides ☐ Aroclors		D Social trioscillate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	3
PF AS 53 7.1	TRIS BASE FIELD BLANKE	TRIS BASE TRIS HEL	
E21001552001 Received: 12/09/2020 EPA 537.1 Organics 0070249TP01	E210015520 Received: 12/09/2 Organics		
Remarks: Lab Supervisor:		Date Re	ported:/





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001552001

Method: EPA 537.1 - PFAS

Date Received:

12/09/2020

Date Collected: 12/09/2020

Field ID: 0070249TP01 Submitted By: Joseph Gay Date Analyzed: 12/12/2020

Field ID:	00702491P01	Submitted By: Joseph Gay		Date Analy	yzed: 12/12/2020	
Contamin	ant		RL	MCL	Result	_ =,
1-chloroei	cosafluoro-3-oxaundeca	ne-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic ad	id (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanona	ane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dimer a	acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamid	oacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonam	idoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFB	S)	1.0		1.20	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFH	xS)	1.0		1.43	
Perfluoroh	exanoic acid (PFHxA)		1.0		1.94	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFO	5)	2.0		2.46	
Perfluoroo	ctanoic acid (PFOA)		1.0		3.54	
Perfluorote	etradecanoic acid (PFTD	A)	1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnD/	A)	1.0		ND	

Comments:

Approved by:

Sacia Muneca

Approval date: 12/16/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001552002

Method: EPA 537.1 - PFAS

Date Received:

12/09/2020

Date Collected: 12/09/2020

Field ID: FB0070249TP01 Submitted By: Joseph Gay Date Analyzed: 12/12/2020

rield ID:	FB00702491P01	Submitted By: Joseph Gay		Date Anal	yzed: 12/12/2020	
Contamin	ant		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaundecane-	-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid	(ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanonane	e-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND	
Hexafluord	ppropylene oxide dimer acid	d (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamidoa	cetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonamido	acetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFHxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	tradecanoic acid (PFTDA)		1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND	

Comments:

Approved by:

Sadia Muneca

Approval date: 12/16/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

, send Report to:	State of Man MDH - Laboratories A Division of Environm ORGANICS ANALYTIC 1770 Ashland A BALTIMORE, MAR	Administration ental Chemistry AL LABORATORY Avenue	Temperature Blank: 7.0 c AF 12/9/20
	ABORATORY ANALY	SIS REQUEST FORM	
Bottle No.: 007-0247 p	Plant/Site Name: M1	STYMEADOWS /	County: CECIC
Collector/ID: JOSEPH	CAY 884/1	Street Phone N	Town or City 10: 4/04467324
		TPO/ 12/9/ Plant No. Date Collect	*
Field Data: pH 0 6.4	Free CI:	0.9	Total CI: // O
Sample Type: Drinking water Private Community Non-Community	Landfill ☐ Sou Stream ☐ Dis Soil/Sediment ☐ Wa	urce (water) stribution (treated) ter Treatment Plant POE	□ Oil □ Solid
Specify Program: DDWA DWA N	PDES RCRA	□ CWA □ CERCL	A Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
□ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N)	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Sodium sulfite ☐ Potassium Citrate monoba	asic
☐ EPA Method 552.2 (Haloacetic acids)	O Field Direct	☐ Sodium thiosulfate	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	☐ Field Blank	☐ Ammonium chloride ☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles)☐ VOCS☐ THMS	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8969 (VOCs) 0 FAS 537.1	FIELD BLAWK	TRIS BASE TRIS HEL	
E21001552003 Received: 12/09/2020 EPA 537.1 0070247TP01	E2100155200 Received: 12/09/20 Organics		
Remarke:			
Remarks:			
ab Supervisor:		- Date I	Reported:/
•Phone: (4	143) 681-3857 ORIGINAL - LAB	•Fax: (443) 681-4507	
IDH98 (02/18) SAMPLE TESTED AS			





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001552003

Method: EPA 537.1 - PFAS

Date Received:

12/09/2020

Date Collected: 12/09/2020

Field ID: 0070247TP01 Submitted By: Joseph Gay Date Analyzed: 12/12/2020

Field ID:	0070247TP01	Submitted By: Joseph G	ay	Date Analy	zed: 12/12/2020	
Contamin	ant		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaunde	cane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic	acid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxano	nane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND	
Hexafluord	opropylene oxide dime	r acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonam	idoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	erfluorooctanesulfona	midoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PF	BS)	1.0		3.59	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDo	A)	2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)	2.0		ND	
Perfluoroh	exanesulfonic acid (Pf	FHxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		2.30	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PF	OS)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		3.95	
Perfluorote	tradecanoic acid (PF1	TDA)	1.0		ND	
Perfluorotri	idecanoic acid (PFTrD	A)	2.0		ND	
Perfluorour	ndecanoic acid (PFUn	DA)	1.0		ND	

Comments:

Approved by:

Sadia Muneca

Approval date: 12/16/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001552004

Method: EPA 537.1 - PFAS

Date Received:

12/09/2020

Date Collected: 12/09/2020

Field ID: FB0070247TP01

ubmitted By: Joseph Gay

Field ID:	FB0070247TP01	Submitted By: .	Joseph Gay	Date Anal	yzed: 12/12/2020	
Contamin	ant		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaundecan	e-1-sulfonic acid (11CI-PF	3OUdS) 2.0		ND	
4,8-dioxa-	3H-perfluorononanoic aci	d (ADONA)	1.0		ND	
9-chlorohe	xadecafluoro-3-oxanona	ne-1-sulfonic acid (9Cl-PF	3ONS) 2.0		ND	
Hexafluord	ppropylene oxide dimer ad	cid (HFPO-DA)	1.0		ND	
N-ethyl per	rfluorooctanesulfonamido	acetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonamio	doacetic acid (N-MeFOSA	A) 3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)	1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFHx	(S)	1.0		ND	
Perfluorohe	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluorood	ctanesulfonic acid (PFOS)	2.0		ND	
Perfluorood	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	tradecanoic acid (PFTDA	۸)	1.0		ND	
Perfluorotri	decanoic acid (PFTrDA)		2.0		ND	
Perfluorour	ndecanoic acid (PFUnDA)	1.0		ND	

Comments:

Approved by:

Sadia Muneca

Approval date: 12/16/2020

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Maryla		perature Blank:°C
	MDH - Laboratories Adn Division of Environment	al Chemistry	KB12/11/20
	DRGANICS ANALYTICAL 1770 Ashland Ave	nue	
	BALTIMORE, MARYI		
LA	BORATORY ANALYSI Please write le		
Bottle No.: 010-6023-TP06 Pla			County: FREY
Location: 1080 WM	Sample Sou	irce: Lab style	Town or City
Collector/ID: Holt 6323J	1}	Phone No.: _	4104467432
County System No.	00023 PWSID	06 12/10/207 Plant No. Date Collected	715 minm Time Collected
Field Data: pH 3,4	Free CI:	2 Total	ci: 1,5
Sample Type: Derinking water	Landfill □ Sou	rce (water)	□ Oil
	Stream Dist	ribution (treated)	□ Solid
	Soil/Sediment Wat	er Treatment Plant POE	□ Other
□ Non-Community			
Specify Program: 08DWA DN	PDES □ RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles)☐ Pesticides☐ Aroclors		☐ Sodium thiosulfate	
EPA Method 524.2 (Volatiles) 537.	□ Trip Blank □ Trip Blank	□ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs)	creen - samples		
TOTAL SECURITY OF THE PROPERTY	i F		
E21001573001	E DETTALE HOLE HORE DETA ERON DETTA TORFERDIE TE		
Received: 12/11/2020 EPA 537.1 Organics 010-0023-TPC	E2100157300 Received: 12/11/202	20 EPA 537.1	
	Organics	FB010-0023-T	
Remarks:			
Lab Supervisor:		Date Re	ported:/
•Phone:	(443) 681-3857	•Fax: (443) 681-4507	

ORIGINAL - LABORATORY





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001573001

Method: EPA 537.1 - PFAS

Date Received:

12/11/2020

Date Collected: 12/10/2020

Field ID: 010-0023-TP06 Submitted By: Holt Date Analyzed: 12/15/20

Field ID:	010-0023-1706	Submitted By: Holt		Date Analy	zed: 12/15/2020	
Contamin	ant		RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaundeca	ne-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic a	cid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanon	ane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluord	opropylene oxide dimer	acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamic	oacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonam	idoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFB	S)	1.0		2.79	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)	2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFI	HxS)	1.0		4.79	
Perfluoroh	exanoic acid (PFHxA)		1.0		1.74	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFO	S)	2.0		34.50	
Perfluoroo	ctanoic acid (PFOA)		1.0		11.00	
Perfluorote	etradecanoic acid (PFTD	PA)	1.0		ND	
Perfluorotri	idecanoic acid (PFTrDA)	2.0		ND	
Perfluorour	ndecanoic acid (PFUnD	A)	1.0		ND	

Comments:

Approved by:

Sadia Muneca

Approval date: 12/18/2020

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001573002

Method: EPA 537.1 - PFAS

Date Received:

12/11/2020

Date Collected: 12/10/2020

Field ID: FB010-0023-TP06

Submitted By: Holt Date Analyzed: 12/15/2020

Tela 15. Toole 3025 11 00 Submitted by. Tion		Date Ana	yzeu: 12/13/2020	
Contaminant	RL	MCL	Result	
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND	
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorobutanesulfonic acid (PFBS)	1.0		ND	
Perfluorodecanoic acid (PFDA)	1.0		ND	
Perfluorododecanoic acid (PFDoA)	2.0		ND	
Perfluoroheptanoic acid (PFHpA)	2.0		ND	
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND	
Perfluorohexanoic acid (PFHxA)	1.0		ND	
Perfluorononanoic acid (PFNA)	2.0		ND	
Perfluorooctanesulfonic acid (PFOS)	2.0		ND	
Perfluorooctanoic acid (PFOA)	1.0		ND	
Perfluorotetradecanoic acid (PFTDA)	1.0		ND	
Perfluorotridecanoic acid (PFTrDA)	2.0		ND	
Perfluoroundecanoic acid (PFUnDA)	1.0		ND	

Comments:

Approved by:

Sadia Mureca

Approval date: 12/18/2020

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Maryle MDH - Laboratories Adn Division of Environment ORGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARYI	ninistration al Chemistry L LABORATORY	erature Blank: <u> -0</u> °c
LA	BORATORY ANALYSI	S REQUEST FORM	
010-0023-RWOG ON E	Please write le		
Bottle No .: FB010-0023-PW06	ant/Site Name: Thur	-mont Well 8 c	County: FREO
Location: RAW TAP @	WY Sample Sou	Irce:Sireet	Town or City
Collector/ID: Holf 6323	SOH	Phone No.:	4104467432
010 0073 0 O O O O O O O O O O O O O O O O O O	PWSID PWSID	0 6 1Z/10/20 7 Plant No. Date Collected	ZO <u>9ZO am/pm</u> Time Collected
Field Data: pH	Free CI:	, O Total	ci:_ <i>Q</i> _O
□ Private □	Stream Dist	rce (water) cribution (treated) er Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: SDWA D N	PDES RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
EPA Method 524.2 (Voltattles) 537.1	Drield Blank □ Trip Blank Vellow-FB	ITHSL- \Z \Z m\/- □ 1:1 HCL + Ascorbic acid □ Sodlum thiosulfate	
☐ EPA Method 8260 (VOCs)	breen-surples		
E21001573003 Received: 12/11/2020 EPA 537.1 Organics 010-0023-RW(E2100157300 Received: 12/11/202 Organics	4	
Remarks:	- L		
		Date Rep	ported://
•Phone:	(443) 681-3857	•Fax: (443) 681-4507	





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001573003

Method: EPA 537.1 - PFAS

Date Received:

12/11/2020

Date Collected: 12/10/2020

Field ID:	010-0023-RW06	Submitted By: Holt		Date Analy	zed: 12/15/2020
Contamina	<u>ant</u>		RL	MCL	Result
1-chloroeic	osafluoro-3-oxaundecan	e-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic aci	d (ADONA)	1.0		ND
9-chlorohex	kadecafluoro-3-oxanona	ne-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoro	propylene oxide dimer a	cid (HFPO-DA)	1.0		ND
N-ethyl per	fluorooctanesulfonamido	acetic acid (N-EtFOSAA)	2.5		ND
N-methyl pe	erfluorooctanesulfonami	doacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobu	ıtanesulfonic acid (PFBS	3)	1.0		2.56
Perfluorode	ecanoic acid (PFDA)		1.0		ND
Perfluorodo	odecanoic acid (PFDoA)		2.0		ND
Perfluorohe	eptanoic acid (PFHpA)		2.0		ND
Perfluorohe	xanesulfonic acid (PFH)	(S)	1.0		4.76
Perfluorohe	xanoic acid (PFHxA)		1.0		1.75
Perfluorono	nanoic acid (PFNA)		2.0		ND
Perfluorooc	tanesulfonic acid (PFOS	·)	2.0		35.83
Perfluorooc	tanoic acid (PFOA)		1.0		11.02
Perfluorotet	radecanoic acid (PFTDA	\)	1.0		ND
Perfluorotrio	decanoic acid (PFTrDA)		2.0		ND
Perfluoroun	decanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/18/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001573004

Method: EPA 537.1 - PFAS

Date Received:

12/11/2020

Date Collected: 12/10/2020

Field ID: FB010-0023-RW0 Submitted By: Holt Date Analyzed: 12/15/2020 Contaminant MCL RLResult 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 ND Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 ND Perfluorohexanoic acid (PFHxA) 1.0 ND Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 ND Perfluorotetradecanoic acid (PFTDA) 1.0 ND Perfluorotridecanoic acid (PFTrDA) 2.0 ND Perfluoroundecanoic acid (PFUnDA) 1.0 ND

Comments:

Approved by:

Approval date: 12/18/2020

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Q114121 HZ

Temperature Blank: 2.0 °C

710 ambin Time Collected □ Consumer Products 1884-768-014 Town or City Comment □ Solid □ Other County: □ Oil Total CI: 14 12030 ☐ Potassium Citrate monobasic ☐ Sodium thiosulfate Phone No.: □ CERCLA Date Collected ☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate Sells M:11 R. Preservative Used TWater Treatment Plant POE LABORATORY ANALYSIS REQUEST FORM □ Ammonium chloride □ Sodium thiosulfate ☐ Sodium thiosulfate □ Sodium thiosulfate □ Sodium thiosulfate E21001583002 Received: 12/14/2020 EPA 537.1 Organics FB-006-0012-* □ Distribution (treated) ☐ HCL (6N) ☐ Sodium sulfite 1112111 2 Yellow □ Source (water) □ CWA 75 9£ 00 0 8 Ø Sample Source: Please write legibly Plant/Site Name: Taney to wa 1.8 □ RCRA Field & Trip Blank 0 Blunk Free CI: □ Soil/Sediment □ Field Blank□ Trip Blank ☐ Field Blank ☐ Field Blank ☐ Field Blank ☐ Field Blank EPA Method **552.2** (Haloacetic acids) □ Field Blank 00900 Field □ Landfill □ Stream □ NPDES B LAMM Or E21001583001
Received: 12/14/2020 EPA 537.1
Organics 006-0012-TP08 EPA Method 5280 (VOCs) 537.1 EPA Method 8270 (Semi-Volatiles)

☐ Pesticides ☐ Aroclors EPA Method 508 [Aroclors (SCAN only) & Toxaphene] EPA Method 531.2 (Carbamates) □ Non-Community EPA Method 504.1 (EDB/DBCP) EPA Method 515.3 (Herbicides) EPA Method 525.2 (Pesticides) Sample Type: If Drinking water Bottle No.: 006-0012- T108 EPA Method **524.2** (Volatiles) 8 Community Community Specify Program: Id SDWA □ Other Test Requested 0 □ Private 5 Field Data: pH Collector/ID: 900 Location:

Z

Date Reported:

Lab Supervisor:

Remarks:

Phone: (443) 681-3857

Fax: (443) 681-4507

ORIGINAL - LABORATORY





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Lab No.: E21001583001

Date Received: 12/14/2020 Field ID: 006-0012-TP08

Method: EPA 537.1 - PFAS

12/14/2020

Date Collected:

Field ID: 006-0012-TP08 Submitted By: Lowman		Date Analyzed: 12/15/2020	12/15/2020
Contaminant	圕	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		QN
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		QN QN
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		Q.
Perfluorobutanesulfonic acid (PFBS)	1.0		Q.
Perfluorodecanoic acid (PFDA)	1.0		QN
Perfluorododecanoic acid (PFDoA)	2.0		Q
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		QN
Perfluorooctanesulfonic acid (PFOS)	2.0		QN
Perfluorooctanoic acid (PFOA)	1.0		QN
Perfluorotetradecanoic acid (PFTDA)	1.0		QN
Perfluorotridecanoic acid (PFTrDA)	2.0		QN
Perfluoroundecanoic acid (PFUnDA)	1.0		QN

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001583002

Method: EPA 537.1 - PFAS

Date Collected: 12/14/2020 Date Received: 12/14/2020

Field ID: FB-006-0012-TP0! Submitted By: Lowman	Date Analyzed: 12/15/2020	12/15/2020
Contaminant	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)		QN
4,8-dioxa-3H-perfluorononanoic acid (ADONA)		QN
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)		QN
Perfluorobutanesulfonic acid (PFBS)		ND
Perfluorodecanoic acid (PFDA)		ND
Perfluorododecanoic acid (PFDoA)		QN
Perfluoroheptanoic acid (PFHpA)		ND
Perfluorohexanesulfonic acid (PFHxS)		ND
Perfluorohexanoic acid (PFHxA)		ND
Perfluorononanoic acid (PFNA)		QN
Perfluorooctanesulfonic acid (PFOS)		QN
Perfluorooctanoic acid (PFOA)		QN
Perfluorotetradecanoic acid (PFTDA)		ND
Perfluorotridecanoic acid (PFTrDA)		ΩN
Perfluoroundecanoic acid (PFUnDA)		ND

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

State of Maryland MDH - Laboratories Administration Division of Environmental Chemistry

QH 12/14/20

Temperature Blank: 2.0 °C

LABORATORY ANALYSIS REQUEST FORM

t + 10006 - 1708	ite Name: Manche le Sample Soi	38 6 1 38 6 1 Westmin 5 ter 5t. Street Phone No.:	Marshester Town or City 410-344-7884	
County System No. Field Data: pH Sample Type: Tobrinking water Private Community Non-Community Sound Non-Community	O O O O O O O O O O	Plant No. Date Collected (0 8	CI: 1, 7 CI: 1, 7 Colid Cother	
Specify Program: GSDWA DNPDES	DES □ RCRA	□ CWA □ CERCLA	☐ Consumer Products	
Test Requested	Field & Trip Blank	Preservative Used	Comment	
EPA Method 504.1 (EDB/DBCP) EPA Method 508 [Aroclors (SCAN Invanhanal	☐ Field Blank	☐ Sodium thiosulfate ☐ Sodium thiosulfate		
(Herbicides)	☐ Field Blank	☐ Sodium thiosulfate		
		☐ Sodium suffite		
-	□ Field blank	Sodium thiosulfate		
EPA Method 552.2 (Haloacetic acids) EPA Method 8270 (Semi-Volatiles)	☐ Field Blank	☐ Sodium thiosulfate		
	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate		
EPA Method 9268 (VOO3) 5'37. /	B Field Blank	B Trizma Yellow		
E21001583003 Received: 12/14/2020 EPA 537.1 Organics 006-0006-TP-t	E2100158: Received: 12/1	E21001583004 Received: 12/14/2020 EPA 537.1 Organics FB-006-0006-		
Remarks:		Date Reported:	ported:	
	• Phone: (443) 681-3857 ORIGINAL	557 • Fax: (443) 681-4507 ORIGINAL - LABORATORY		



ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director Division of Environmental Sciences Laboratories Administration State of Maryland Department of Health



Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Method: EPA 537.1 - PFAS Lab No.: E21001583003

12/14/2020 Date Collected: 12/14/2020 Date Received:

Field ID: 006-0006-TP-08 Submitted By: Lowman	02	Date Analyzed: 12/15/2020	12/15/2020
Contaminant	귐	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		N
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		N
Perfluorobutanesulfonic acid (PFBS)	1.0		2.06
Perfluorodecanoic acid (PFDA)	1.0		N
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		2.47
Perfluorohexanoic acid (PFHxA)	1.0		1.35
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		N
Perfluorooctanoic acid (PFOA)	1.0		2.87
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		Q.

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Method: EPA 537.1 - PFAS Lab No.: E21001583004

12/14/2020 Date Collected: 12/14/2020 Date Received:

Field ID: FB-006-0006-TP-(Submitted By: Lowman		Date Analyzed: 12/15/2020	12/15/2020
Contaminant	밂	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		Q.
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

OZ171/21 HJ

Temperature Blank: 2.0 °C

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 212015

		County: Larrell Munchester	4884-786-017 "ON	/20 3 0 8 3 S (emporance)	Total CI: /. S	□ Oil □ Solid □ Other	LA 🛘 Consumer Products	Comment				-	basic						
LAND 21205	IS REQUEST FORM egibly	urce: Over bok Ct	Sl. Phone No.:	7 / 13 / 14 /2 Plant No. Date Collected	1.5	☐ Source (water) ☐ Distribution (treated) ☐ Water Treatment Plant POE	□ CWA □ CERCLA	Preservative Used	☐ Sodium thiosulfate	☐ Sodium thiosulfate	☐ Sodium thiosulfate	☐ HCL (6N) ☐ Sodium sulfite	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	☐ Ammonium chloride	☐ Sodium thiosulfate	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	IN Triema	006 2020 EPA 537.1 FB-006-0006-*	
BALLIMONE, MAKY LAND 21203	LABORATORY ANALYSIS REQUEST FORM Please write legibly	Plant/Site Name: Mach 2542C	9200	0000 b	Free CI:	□ Landfill □ Sou □ Stream □ Dis	D NPDES D RCRA	Field & Trip Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank		☐ Field Blank ☐ Trip Blank	Ex Field Blank	E21001583006 E21001583006 Received: 12/14/2020 EPA 537 Organics FB-006-00	
	LA	Bottle No.: 006-0006-7709 Pla Location: Plant	Collector/ID: Shaw Lowmen	O O O O O O O O O O O O O O O O O O O	Field Data: pH 7.3	Sample Type: La Drinking water] Drivate 2 Community 3 Community 2 Community 3 Community	Specify Program: IZSDWA NF	Test Requested	☐ EPA Method 504.1 (EDB/DBCP)	☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	EPA Method 515.3 (Herbicides)		- 1	☐ EPA Method 552.2 (Haloacetic acids)	☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		EV EPA Method 9260 (VOGS) 537.1	E21001583005 Received: 12/14/2020 EPA 537.1 Organics 006-0006-TP-(

•Fax: (443) 681-4507 •Phone: (443) 681-3857

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

Date Reported:

MDH98 (02/18)

Lab Supervisor:

Remarks:



ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director Division of Environmental Sciences State of Maryland Department of Health Laboratories Administration



Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001583005

Method: EPA 537.1 - PFAS

Date Collected: 12/14/2020 12/14/2020 Date Received:

Field ID: 006-0006-TP-09 Submitted By: Lowman		Date Analyzed: 12/15/2020	12/15/2020
Contaminant	圕	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		QN
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		NO
Perfluorobutanesulfonic acid (PFBS)	1.0		4.54
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		QN
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.51
Perfluoronanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.65
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001583006

Method: EPA 537.1 - PFAS

12/14/2020 Date Collected: 12/14/2020 Date Received:

Field ID: FB-006-0006-TP-(Submitted By: Lowman		Date Analyzed: 12/15/2020	12/15/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	0.		QN
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		QN
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		N
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	0.		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		Q
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		NO
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call 443-681-3857 and arrange for return or destruction. *All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Fax: (443) 681-4507

Temperature Blank: 2-0 'c OH 12/14[20

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

LABORATORY ANALYSIS REQUEST FORM	S REQUEST FORM	
	TORY ANALYSI	

Please write legibly

Bottle No.: 006-0006-TPOH Plant/Site Name: Marchester W	lant/Site Name: Manhe	4 12	County: Correll
Location: Man +	Sample Source:	Bichman Rd Street	Manhestur Town or City
Collector/ID: Shawn Lowmin		00765L Phone No.:	4884 786 014
O O O O O O O O O O O O O O O O O O O	9 0 0 0 9 C		30 905 (and pm) Time Collected
Field Data: pH 7, 4	Free CI:	Total CI:	ci. 1, 3
Sample Type: LeDrinking water	□ Landfill □ Sou □ Stream □ Dist □ Soil/Sediment æÆwat	☐ Source (water) ☐ Distribution (treated) ☑ Water Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: SDWA D N	□ NPDES □ RCRA	□ CWA □ CERCLA	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
4	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N)	2
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
図 EPA Method 8260 (VOCs) 5 37./ PEAS	EX Field Blunk	E Trizmo Yellou	
E21001583007 E21001583007 Received: 12/14/2020 EPA 537.1 Organics 006-0006-TP0	E21001583008 E21001583008 Received: 12/14/2020 EPA 537 Organics FB-006-00	108 2020 EPA 537.1 FB-006-0006-1	
J.			
Remarks:		L	
Lab Supervisor:		Date Reported:	orted:

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

•Fax: (443) 681-4507

Phone: (443) 681-3857

ORIGINAL - LABORATORY





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

ANNAPOLIS, MD 21401 Lab No.: E21001583007

Method: EPA 537.1 - PFAS

12/14/2020 Date Collected: Submitted Bv: 12/14/2020 006-0006-TP04 Date Received: Field ID:

Field ID: 006-0006-TP04 Submitted By: Lowman		Date Analyzed: 12/17/2020	12/17/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		QN
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		Q
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		N Q
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		N
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		Q
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		Q.
Perfluorobutanesulfonic acid (PFBS)	1.0		3.23
Perfluorodecanoic acid (PFDA)	1.0		Q.
Perfluorododecanoic acid (PFDoA)	2.0		N
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		N
Perfluorohexanoic acid (PFHxA)	1.0		1.93
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		2.51
Perfluorotetradecanoic acid (PFTDA)	1.0		Q.
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.



Laboratories Administration Division of Environmental Sciences ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director State of Maryland Department of Health



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MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001583008

Method: EPA 537.1 - PFAS

12/14/2020 Date Collected: 12/14/2020 Date Received:

Field ID: FB-006-0006-TP0 Submitted By: Lowman		Date Analyzed: 12/17/2020	12/17/2020
Contaminant	뀝	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		QN
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		QN
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		QN
Perfluorodecanoic acid (PFDA)	1.0		NO
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		QN
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

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RH IZ/14/20

Temperature Blank: 2.0 'C

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY

1770 Ashland Avenue BALTIMORE, MARYLAND 21205

☐ Consumer Products 4886 HE OIL Comment 935 2 Other. □ Solid County: Total CI: 12030 ☐ Potassium Citrate monobasic☐ Sodium thiosulfate Phone No.: □ CERCLA Holland Divo ☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate Preservative Used ☑ Water Treatment Plant POE ☐ Sodium thiosulfate ☐ HCL (6N) ☐ Sodium sulfite ☐ Ammonium chloride LABORATORY ANALYSIS REQUEST FORM □ Sodium thiosulfate □ Sodium thiosulfate □ Sodium thiosulfate WTPD E21001583010
Received: 12/14/2020 EPA 537.1
Organics FB-006-0006-Xi Kon □ Distribution (treated) □ Source (water) □ CWA 006-0006-TO Plant Site Name: Murchester 团 0 1,9 Sample Source: 759±00 Please write legibly B Field Blank □ RCRA Field & Trip Blank 90000900 Free CI: ☐ Field Blank ☐ Trip Blank □ Soil/Sediment ☐ Field Blank ☐ Field Blank ☐ Field Blank □ EPA Method 552.2 (Haloacetic acids) □ Field Blank □ Field Blank □ Field Blank □ Landfill □ Stream □ NPDES E21001583009 Received: 12/14/2020 EPA 537.1 Organics 006-0006-TPO EPA Method 8270 (Semi-Volatiles)
☐ Pesticides ☐ Aroclors EPA Method **8260 (VOOS)** 537./ EPA Method **508** [Aroclors (SCAN only) & Toxaphene] EPA Method 531.2 (Carbamates) EPA Method 504.1 (EDB/DBCP) □ Non-Community ☐ EPA Method 515.3 (Herbicides) EPA Method 525.2 (Pesticides) Sample Type: L'Drinking water EPA Method **524.2** (Volatiles) □ VOCS □ THMs 9000 Community Specify Program: SDWA Test Requested □ Other □ Private Field Data: pH Collector/ID: 000 Remarks: Bottle No.: Location: Þ

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

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• Fax: (443) 681-4507

Phone: (443) 681-3857

Lab Supervisor:

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MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Lab No.: E21001583009

Method: EPA 537.1 - PFAS

12/14/2020 Date Collected: 12/14/2020 Date Received:

Field ID: 006-0006-TP02 Submitted By: Lowman		Date Analyzed: 12/17/2020	12/17/2020
Contaminant	RL I	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	0.9		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	0.		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	0.3		NO
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		NO
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		NΩ
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		QN
Perfluorobutanesulfonic acid (PFBS)	1.0		4.30
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		NO
Perfluoroheptanoic acid (PFHpA)	2.0		NO
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.65
Perfluorohexanoic acid (PFHxA)	1.0		2.09
Perfluorononanoic acid (PFNA)	0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.90
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		QN

Comments:

Approved by:

Approval date: 12/30/2020

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416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Lab No.: E21001583010

Method: EPA 537.1 - PFAS

12/14/2020 Date Collected: 12/14/2020 Date Received:

Field ID: FB-006-0006-TP0 Submitted By: Lowman		Date Analyzed: 12/17/2020	12/17/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		Q.
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		N
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		QN Q
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		N
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		Q.
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		N
Perfluorobutanesulfonic acid (PFBS)	1.0		Q
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		QN
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		N
Perfluorononanoic acid (PFNA)	2.0		Q
Perfluorooctanesulfonic acid (PFOS)	2.0		N
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		NO
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

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Temperature Blank: 2.0° c RH 12 114176

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

ABORATORY ANALYSIS REQUEST FORM	Please write legibly
LABORA	

Bottle No.: Obb. 0006-1711 Plant/Site Name: Manchester Hylle Hill V County: Larroll	nt/Site Name: Munch	lester Hy lie Hill Of County	Lerioll
Location: Plant	Sample Sou	Sample Source: 3615 Hullie Ave.	Munchester Town or City
Collector/ID: Shawn Lowman	9200	54 Phone No.:	1,882-768-014
00660000000000000000000000000000000000	90009	1 1 14 /20 3 0 Plant No. Date Collected	1005 (mpm. Time Collected
Field Data: pH 8, 6	Free CI: 3,	7 Total CE.	3.9
Sample Type: Darinking water 1	□ Landfill □ Sour □ Stream □ Dist □ Soil/Sediment □ Wate	□ Source (water) □ Oil □ Oistribution (treated) □ Solid ⊕ Water Treatment Plant POE □ Other	.1 Jildher
Specify Program: GADWA UNP	□ NPDES □ RCRA	□ CWA □ CERCLA □	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	Sodium thiosulfate	
	☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMS	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method 9260 (VOOS) 537./	Streld Alank	IN Trisma	
E21001583011 E21011583011 Received: 12/14/2020 EPA 537.1 Organics 006-0006-TP1	E21001583 E21001583 Received: 12/12 Organics	E21001583012 Received: 12/14/2020 EPA 537.1 Organics FB-006-0006-	
7			
Remarks:			
Lab Supervisor:		Date Reported:	d:

•Fax: (443) 681-4507

Phone: (443) 681-3857

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MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001583011

Method: EPA 537.1 - PFAS

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Date Received: 12/14/2020 Date Collected: 12/14/2020 Field ID: 006-0006-TP11 Submitted By: Lowman		Date Analyzed: 12/17/2020	12/17/2020
Contaminant	R	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF30UdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.40
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.97
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.62
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.



Laboratories Administration Division of Environmental Sciences ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director State of Maryland Department of Health



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MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001583012

Method: EPA 537.1 - PFAS

Date Collected: 12/14/2020 Date Received: 12/14/2020

Field ID: FB-006-0006-TPI Submitted By: Lowman	Date Analy	Date Analyzed: 12/17/2020	070
Contaminant	MCL	Result	
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) 2.0		Q	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)		N	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0		Q	
Hexafluoropropylene oxide dimer acid (HFPO-DA)		Q	
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)		QN	
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)		Q	
Perfluorobutanesulfonic acid (PFBS)		Q	
Perfluorodecanoic acid (PFDA)		QN	
Perfluorododecanoic acid (PFDoA)		QN	
Perfluoroheptanoic acid (PFHpA)		QN	
Perfluorohexanesulfonic acid (PFHxS)		QN	
Perfluorohexanoic acid (PFHxA)		QN	
Perfluorononanoic acid (PFNA)		ΩN	
Perfluorooctanesulfonic acid (PFOS)		QN	
Perfluorooctanoic acid (PFOA)		QN	
Perfluorotetradecanoic acid (PFTDA)		Q	
Perfluorotridecanoic acid (PFTrDA) 2.0		ND	
Perfluoroundecanoic acid (PFUnDA)		ND	

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

DEA 12/14/20

Temperature Blank: 2.6

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

LABORATORY ANALYSIS REQUEST FORM

	Please write legibly	egibly	
Bottle No.: 006-0006-7915 Pla	Plant/Site Name: Musches fer	High School	County: Larroll
Location: Man +	Sample Sou	Sample Source: Racke 30 Street	Maches ter Town or City
Collector/ID: Shawn Lowmen	00768	Phone No.:	7887766017
006 000 600 000	9 0 0 0 9	1 5 1 14 /20 30 Plant No.	OSO (Lapping Collected Time Collected
ta: pH	ree CI:		3
Sample Type: Drinking water	□ Landfill □ Sou □ Stream □ Dis	□ Source (water) □ Distribution (treated) ☑ Water Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: ESDWA DINI	□ NPDES □ RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
1 1	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
- 1	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N)	,
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMS	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
Y EPA Method 8269 (VOOS) 537.1 P <i>FAS</i>	EX Field Blank	B Trizma breen	
E21001583013 E21001583013 Received: 12/14/2020 EPA 537.1 Organics 006-0006-TP1	E21001583014 Received: 12/14/2020 Organics	E21001583014 Received: 12/14/2020 EPA 537.1 Organics FB-006-0006-	
2.			
Remarks: All Wells Pomering	g at time of	Sample	
Lab Sunervisor:		Dote Reno	poorted.

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

• Fax: (443) 681-4507

• Phone: (443) 681-3857

ORIGINAL - LABORATORY

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Division of Environmental Sciences ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director Laboratories Administration State of Maryland Department of Health



Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001583013

Method: EPA 537.1 - PFAS

Date Collected: 12/14/2020 Date Received: 12/14/2020

Field ID: 006-0006-TP15 Submitted By: Lowman	Date Ar	Date Analyzed: 12/17/2020	/2020
Contaminant	MCL	Result	
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0		QN	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)		QN	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0		QN	
Hexafluoropropylene oxide dimer acid (HFPO-DA)		Q	
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)		ND	
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)		ND	
Perfluorobutanesulfonic acid (PFBS)		ND	
Perfluorodecanoic acid (PFDA)		N	
Perfluorododecanoic acid (PFDoA)		N	
Perfluoroheptanoic acid (PFHpA)		QN	
Perfluorohexanesulfonic acid (PFHxS)		QN	
Perfluorohexanoic acid (PFHxA)		1.41	
Perfluorononanoic acid (PFNA)		N	
Perfluorooctanesulfonic acid (PFOS)		ND	
Perfluorooctanoic acid (PFOA)		1.18	
Perfluorotetradecanoic acid (PFTDA)		QN	
Perfluorotridecanoic acid (PFTrDA)		QN	
Perfluoroundecanoic acid (PFUnDA)		ND	

Comments:

Approved by:

Approval date: 12/30/2020

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401 Lab No.: E21001583014

Method: EPA 537.1 - PFAS

Date Received: 12/14/2020

Date Collected: 12/14/2020

Field ID: FB-006-0006-TPI: Submitted By: Lowman		Date Analyzed: 12/17/2020	12/17/2020
Contaminant	묎	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		NO
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		NO
Perfluorobutanesulfonic acid (PFBS)	1.0		QN
Perfluorodecanoic acid (PFDA)	1.0		QN
Perfluorododecanoic acid (PFDoA)	2.0		QN
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		QN
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		QN
Perfluoroundecanoic acid (PFUnDA)	1.0		Q

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Q71H120 H3

Temperature Blank: 2.6 °C

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

// Samom □ Consumer Products 1882-766-014 Comment □ Other □ Solid Total CI: 12/14/2020 ☐ Potassium Citrate monobasic ☐ Sodium thiosulfate Phone No.: □ CERCLA ☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate か Trizmyellow Preservative Used ☐ Distribution (treated)

☑ Water Treatment Plant POE □ Ammonium chloride □ Sodium thiosulfate □ Sodium thiosulfate □ Sodium thiosulfate □ Sodium thiosulfate t dim E21001583016
Received: 12/14/2020 EPA 537.1
Organics FB-006-0006-* ☐ HCL (6N) ☐ Sodium sulfite □ Source (water) □ CWA 759200 67 2 囟 Plant/Site Name: Marches ter Sample Source: D RCRA Field & Trip Blank 0 Free CI: Field Blank 0 □ Soil/Sediment ☐ Field Blank ☐ Field Blank ☐ Field Blank ☐ Trip Blank ☐ Field Blank ☐ Field Blank ☐ Field Blank EPA Method **552.2** (Haloacetic acids) ☐ Field Blank 00 □ Landfill □ Stream □ NPDES a প্র 0 10 mman 0 E21001583015 Received: 12/14/2020 EPA 537.1 Organics 006-0006-TPO EPA Method 8270 (Semi-Volatiles)

☐ Pesticides ☐ Aroclors EPA Method 9260 (VOGs) 537./ EPA Method 508 [Aroclors (SCAN only) & Toxaphene] 006-0006-TOF EPA Method 531.2 (Carbamates) □ Non-Community EPA Method 504.1 (EDB/DBCP) EPA Method **515.3** (Herbicides) EPA Method **525.2** (Pesticides) Sample Type: & Drinking water EPA Method **524.2** (Volatiles) □ VOCS □ THMs 0000 Specify Program: SDWA Ø. □ Other Test Requested Shawn 9 □ Private Plant Field Data: pH Collector/ID: Bottle No.: 2 00

Phone: (443) 681-3857

Lab Supervisor:

Remarks:

Date Reported:

Fax: (443) 681-4507

ORIGINAL - LABORATORY



Laboratories Administration Division of Environmental Sciences ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director State of Maryland Department of Health



Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001583015

Method: EPA 537.1 - PFAS

Date Collected: 12/14/2020 12/14/2020 Date Received:

Field ID: 006-0006-TP07 Submitted By: Lowman		Date Analyzed: 12/17/2020	12/17/2020
Contaminant	R	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		N
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ΩN
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		QN
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		QN
Perfluorobutanesulfonic acid (PFBS)	1.0		21.29
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		QN
Perfluoroheptanoic acid (PFHpA)	2.0		2.79
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.48
Perfluorohexanoic acid (PFHxA)	1.0		4.51
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		5.83
Perfluorooctanoic acid (PFOA)	1.0		7.87
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Lab No.: E21001583016

Method: EPA 537.1 - PFAS

12/14/2020 Date Collected: 12/14/2020 Date Received:

Field ID: FB-006-0006-TP0 Submitted By: Lowman	Date Analyzed:	12/17/2020
Contaminant	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)		N
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)		NO
Perfluorobutanesulfonic acid (PFBS)		NO
Perfluorodecanoic acid (PFDA)		ND
Perfluorododecanoic acid (PFDoA)		ND
Perfluoroheptanoic acid (PFHpA)		ND
Perfluorohexanesulfonic acid (PFHxS)		ND
Perfluorohexanoic acid (PFHxA)		ND
Perfluorononanoic acid (PFNA)		QN
Perfluorooctanesulfonic acid (PFOS)		ND
Perfluorooctanoic acid (PFOA)		ND
Perfluorotetradecanoic acid (PFTDA)		N
Perfluorotridecanoic acid (PFTrDA)		ND
Perfluoroundecanoic acid (PFUnDA)		ND

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Temperature Blank: 1.0 .c RH 72/15/20

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

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Bottle No.: 006 -0006 - TP 14 Plant/Site Name:	1	Murchester WTP 14	County: Larroll
Location: flant	Sample Source:	nurce: Hallie Ave	Manches to
Collector/ID: Shun Lowner	759±00	Phone No.:	4884 ABC 014
0 0 0 0 0 0 0 0 0 0 0	9 0 0 9 0	0	010 OC
ta: pH	Free CI:	Date Collect	Total CI: /, 6
Sample Type: D Drinking water	□ Landfill □ Sou □ Sou □ Stream □ Dis	☐ Source (water) ☐ Distribution (treated) ☑ Water Treatment Plant POE	□ Oil □ Solid □ Other
Specity Program: IESDWA DN	□ NPDES □ RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles)☐ Pesticides☐ Aroclors		☐ Sodium thiosulfate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	3
区 EPA Method 8268 (VOC S) 53 7./	ON Field Blonk	IN Trizma yellow	
E21001591001 Received: 12/15/2020 EPA 537.1 Organics 006-0006-TP1.	E21001591002 Received: 12/15/2020 EPA 537 Organics FB-006-00	EPA 537.1 B-006-0006-T	
rvisor:		7/4 ///	Date Reported:

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

Date Reported:

•Fax: (443) 681-4507

Phone: (443) 681-3857

ORIGINAL - LABORATORY





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Lab No.: E21001591001

Method: EPA 537.1 - PFAS

12/15/2020 Date Collected: 12/15/2020 Date Received:

Field ID: 006-0006-TP14 Submitted By: Lowman		Date Analyzed: 12/17/2020	12/17/2020
Contaminant	R	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF30UdS)	2.0		N
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ΩN
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		QN QN
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		QN
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		QN QN
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		Q
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		NO
Perfluorododecanoic acid (PFDoA)	2.0		NO
Perfluoroheptanoic acid (PFHpA)	2.0		QN
Perfluorohexanesulfonic acid (PFHxS)	1.0		NO
Perfluorohexanoic acid (PFHxA)	1.0		QN
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Lab No.: E21001591002

Method: EPA 537.1 - PFAS

12/15/2020 Date Collected: 12/15/2020 Date Received:

Field ID: FB-006-0006-TPI ⁻ Submitted By: Lowman		Date Analyzed: 12/17/2020	12/17/2020
Contaminant	R.	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		N
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		N
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		N
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		QN
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluoronanoic acid (PFNA)	2.0		Q
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		N
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Temperature Blank: 1.0

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY

1770 Ashland Avenue BALTIMORE, MARYLAND 21205

RH 12/15/20 940 and/pm □ Consumer Products 4892-166-014 Comment Marchester Town or City □ Other □ Solid County: Total CI: 1 15 /20 20 ☐ Potassium Citrate monobasic ☐ Sodium thiosulfate Yellow Phone No.: Ferrier Rough □ CERCLA ☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate Road Preservative Used Twater Treatment Plant POE LABORATORY ANALYSIS REQUEST FORM □ Ammonium chloride □ Sodium thiosulfate □ Sodium thiosulfate □ Sodium thiosulfate □ Sodium thiosulfate To Zona Ferrier Street ☐ HCL (6N) ☐ Sodium sulfite ☐ Distribution (treated) C EPA 537.1 FB-006-0006-T 0 E21001591004 Received: 12/15/2020 EPA 537 □ CWA □ Source (water) Monchester 61 Plant No. व 7 Sample Source: Please write legibly 759±00 Blank □ RCRA Field & Trip Blank 9000 Free CI: Organics ☐ Field Blank ☐ Trip Blank □ Soil/Sediment Plant/Site Name: ☐ Field Blank EPA Method **552.2** (Haloacetic acids) ☐ Field Blank Field □ Landfill □ Stream □ NPDES ھ 回 0 0 E21001591003 Received: 12/15/2020 EPA 537.1 Organics 006-0006-TP1; EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors EPA Method 508 [Aroclors (SCAN 6147-3000-300 EPA Method 531.2 (Carbamates) ☐ EPA Method 504.1 (EDB/DBCP) □ Non-Community EPA Method 515.3 (Herbicides) EPA Method 525.2 (Pesticides) Sample Type: Torinking water EPA Method **524.2** (Volatiles) □ VOCS □ THMs 9000 EPA Method 8268 (VOGS) □Community Specify Program: SDWA □ Other Test Requested Shawn 9 □ Private only) & Toxaphene] Plant Field Data: pH Collector/ID: Bottle No.: 0 Location:

2

0

7:30 47 Dum Oing Was Well Remarks:

Lab Supervisor:

Fax: (443) 681-4507 Phone: (443) 681-3857

Date Reported:

ORIGINAL - LABORATORY

MDH98 (02/18)



Division of Environmental Sciences ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director Department of Health Laboratories Administration State of Maryland



Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Lab No.: E21001591003

12 Date Received:

37.1 - PFAS	12/15/2020
Method: EPA 537.1	Date Collected:
1003	2/15/2020

Field ID: 006-0006-TP12 Submitted By: Lowman		Date Analyzed: 12/19/2020	12/19/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		N
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		N
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluoronanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		N
Perfluorooctanoic acid (PFOA)	1.0		QN
Perfluorotetradecanoic acid (PFTDA)	1.0		N
Perfluorotridecanoic acid (PFTrDA)	2.0		N
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Lab No.: E21001591004

Method: EPA 537.1 - PFAS

12/15/2020 Date Collected: 12/15/2020 Date Received:

Field ID: FB-006-0006-TPI: Submitted By: Lowman		Date Analyzed: 12/19/2020	12/19/2020
Contaminant	R	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		QN QN
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		Q.
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		Q.
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		Q
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		Q.
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		NΩ
Perfluorotridecanoic acid (PFTrDA)	2.0		Q
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

07151171 F12

Temperature Blank: 1.0

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

BORA	LABORA	ABORATORY ANALYSIS REQUEST FORM
	LA	30RATORY ANA

	ounty:	Marches ter	410-34. 7884	O 1035 (m)tm	Ct. 2.0	□ Oil □ Solid □ Other	☐ Consumer Products	Comment								
yldig	Plant Site Name: Muches ter WIF lash highe County:	Sample Source: Mashington Way	St. Phone No.:	$\begin{bmatrix} 7 \\ 1 \\ 3 \end{bmatrix}$ $\begin{bmatrix} 7 \\ 15 \\ 20 \\ 0 \end{bmatrix}$	8 Total CI:	□ Source (water) □ Distribution (treated) ■ Water Treatment Plant POE	□ CWA □ CERCLA	Preservative Used	□ Sodium thiosulfate	☐ Sodium thiosulfate	□ Sodium thiosulfate	☐ HCL (6N) ☐ Sodium sulfite	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	☐ Ammonium chloride	☐ Sodium thiosulfate	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate
Please write legibly	ant/Site Name: Muche	Sample Sou	759200	1 9000000	Free CI: 1.8	□ Landfill □ Sour □ Stream □ Distr □ Soil/Sediment æ Wate	O NPDES O RCRA	Field & Trip Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank		☐ Field Blank ☐ Trip Blank
	Bottle No.: 006-0006-TP13 PIS	Location: Plant	Collector/ID: Stephy Column		Field Data: pH 3.3	Sample Type: Drinking water Drivate Dr	Specify Program: ESDWA DN	Test Requested	☐ EPA Method 504.1 (EDB/DBCP)	☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ EPA Method 515.3 (Herbicides)	☐ EPA Method 525.2 (Pesticides)	☐ EPA Method 531.2 (Carbamates)	☐ EPA Method 552.2 (Haloacetic acids)	☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs

51		
E21001591000 EPA 537.1 Caceived: 12/15/2020 EPA 537.1 Organics FB-006-0006-1		at time at sample.
E21001591005 E210119111111111111111111111111111111111		Remarks: Well A pumping at time of Sample

Trizma Yellow

Ø

ES Field Blank

E EPA Method 8280 (VOCs) 537.1

Phone: (443) 681-3857

Lab Supervisor:

Date Reported:

•Fax: (443) 681-4507 ORIGINAL - LABORATORY



Division of Environmental Sciences ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director State of Maryland Department of Health Laboratories Administration



Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Method: EPA 537.1 - PFAS Lab No.: E21001591005

Date Collected: 12/15/2020 12/15/2020 Date Received:

Field ID: 006-0006-TP13 Submitted By: Lowman		Date Analyzed:	12/19/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		Q
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		Q.
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		Q.
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		Q
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		Q
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		Q
Perfluorobutanesulfonic acid (PFBS)	1.0		4.71
Perfluorodecanoic acid (PFDA)	1.0		Q.
Perfluorododecanoic acid (PFDoA)	2.0		N
Perfluoroheptanoic acid (PFHpA)	2.0		3.05
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.59
Perfluorohexanoic acid (PFHxA)	1.0		4.69
Perfluorononanoic acid (PFNA)	2.0		Q
Perfluorooctanesulfonic acid (PFOS)	2.0		6.53
Perfluorooctanoic acid (PFOA)	1.0		8.20
Perfluorotetradecanoic acid (PFTDA)	1.0		Q.
Perfluorotridecanoic acid (PFTrDA)	2.0		N _O
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.



Division of Environmental Sciences ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director Department of Health Laboratories Administration State of Maryland



Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001591006

12/15/2020 Date Received:

Method: EPA 537.1 - PFAS

Date Analyzed: 12/15/2020 Lowman Submitted By: FB-006-0006-TP1; Field ID:

Date Collected:

rieid ID: FB-006-0006-TPI. Submitted By: Lowman		Date Analyzed:	12/19/2020
Contaminant	큄	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		2 2
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		2 5
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		2 2
Perfluorobutanesulfonic acid (PFBS)			2 4
Perfluorodecanoic acid (PFDA)	; (2 4
Perfluorododecanoic acid (PFDoA)	5. 0		2 2
Perfluoroheptanoic acid (PFHpA)) (Q ;
	7.0		Q Q
reiliuolollexarlesuironic acid (PFHXS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		Q
Perfluorononanoic acid (PFNA)	2.0		. Q
Perfluorooctanesulfonic acid (PFOS)	2.0	ů	: S
Perfluorooctanoic acid (PFOA)	1.0		
Perfluorotetradecanoic acid (PFTDA)	1.0		
Perfluorotridecanoic acid (PFTrDA)	2.0		
Perfluoroundecanoic acid (PFUnDA)	1.0		2 2

Comments:

Approved by:

12/30/2020 Approval date:

'All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	ort to:	is	State of Maryland	٤	0.1
		MDH - Lab Division of ORGANICS ANA 1770 BALTIMO	MDH - Laboratories Administration Division of Environmental Chemistry ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue BALTIMORE, MARYLAND 21205		AH (21/5/20
		LABORATORY A	LABORATORY ANALYSIS REQUEST FORM Please write legibly	FORM	
Bottle No.:	Bottle No.: 006 - 0006-TP/O		Plant Site Name: Muschester WTP 10		County: (417911
Location:	Plent	Š	Sample Source: Foot b	Foot bridge Or.	Muschester
Collector/ID:	Shown Lowmen		759200	Phone No.:	Phone No.: 410 294 7884
0 0 b	0 0 0 6 System No.	9000900	Plant No.	13 / 15 /20 30 Date Collected	0 /0 50 (mppm) Time Collected
Field Data: pH	4 7.2	Free CI:	I. 0.6	Total	Total CI: O. 7
Sample Type:	Sample Type: ©Drinking water □ Private □ Community □ Non-Community	□ Landfill □ Stream □ Soil/Sediment	□ Source (water) □ Distribution (treated) ☑ Water Treatment Plant POE	1) ant POE	□ Oil □ Solid □ Other

	_	_											
□ Consumer Products	Comment												
□ CERCLA	Preservative Used	nosulfate	nosulfate	iosulfate	lifite	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	n chloride	iosulfate	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	na Yellow	J		
□ CWA	Prese	☐ Sodium thiosulfate	☐ Sodium thiosulfate	☐ Sodium thiosulfate	☐ HCL (6N)	☐ Potassium	☐ Ammonium chloride	☐ Sodium thiosulfate	☐ 1:1 HCL ☐ 1:1 HCL + ☐ Sodium th	B Trizma	08 020 EPA 537.1 FB-006-0006-1		
DES 🗆 RCRA	Field & Trip Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank		☐ Field Blank ☐ Trip Blank	Ex Field Blank	E21001591008 E21001591008 Received: 12/15/2020 EPA 537.1 Organics FB-006-0006		
Specify Program: IdSDWA NPDES	Test Requested		☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	EPA Method 515.3 (Herbicides)	☐ EPA Method 525.2 (Pesticides)	☐ EPA Method 531.2 (Carbamates) ☐	☐ EPA Method 552.2 (Haloacetic acids) ☐	☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Araclors	□ EPA Method 524.2 (Volatiles) □ □ VOCS □ THMS	E EPA Method 8269 (VOGS) 537.1	E21001591007 E21001591007 Received: 12/15/2020 EPA 537.1 Organics 006-0006-TP1(

D runny Remarks: We //

Lab Supervisor:

MDH98 (02/18)

•Phone: (443) 681-3857

Date Reported: •Fax: (443) 681-4507

ORIGINAL - LABORATORY





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Lab No.: E21001591007

Method: EPA 537.1 - PFAS

Date Collected: 12/15/2020 12/15/2020 Date Received:

Field ID: 006-0006-TP10 Submitted By: Lowman		Date Analyzed: 12/19/2020	12/19/2020
Contaminant	묍	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		N
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		NO
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		QN
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		QN
Perfluorobutanesulfonic acid (PFBS)	1.0		8.67
Perfluorodecanoic acid (PFDA)	1.0		ΩN
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		2.13
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		2.57
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		QN O
Perfluorooctanoic acid (PFOA)	1.0		3.90
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.



Division of Environmental Sciences ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director Laboratories Administration State of Maryland Department of Health



Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Lab No.: E21001591008

Method: EPA 537.1 - PFAS

12/15/2020 Date Collected: 12/15/2020 Date Received:

Field ID: FB-006-0006-TP1t Submitted By: Lowman		Date Analyzed: 12/19/2020	12/19/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		N
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluoronanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL I LARORA

AT 12/21/20

Temperature Blank: O

	BALTIMORE, MARYLAND 21205	AND 21205	
LA LA	LABORATORY ANALYSIS REQUEST FORM Please write legibly	S REQUEST FORM egibly	
Bottle No.: 006-0008-TP03 W l Plant/Site Name: New Windson	ant/Site Name: New Win	Jsor Hillside Well 1	County: (217011
Location: Plent	Sample Source:	rrce: End of H: 1/5; Je D., ve	A.ve New Windsor
Collector/ID: Shew Lowmen	759200	Phone No.: 4/0	0
d d	800009	7 %	
ta: pH	ree CI:		Total CI: 3, 7
Sample Type: La Drinking water	Landfill Stream Soil/Sediment	□ Source (water) □ Distribution (treated) ☑ Water Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: CSDWA DNI	□ NPDES □ RCRA	□ CWA □ CERCLA	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
1 1	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	🗅 Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	sic
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8260 (VOCs) 537.1	B Field Blank	IN Trizma	
E21001627001 Received: 12/21/2020 EPA 537.1 Organics 006-0008-TP03	E21001627002 Received: 1221/2020 EPA 537 Organics FB-006-00		
Remarks:			
Lab Supervisor:		Date	Date Reported:

MDH98 (02/18)

Date Reported:

•Fax: (443) 681-4507

• Phone: (443) 681-3857

ORIGINAL - LABORATORY



Division of Environmental Sciences ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director State of Maryland Department of Health Laboratories Administration



Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Method: EPA 537.1 - PFAS Lab No.: E21001627001

12/21/2020 Date Collected: 12/21/2020 Date Received:

Field ID: 006-0008-TP03W Submitted By: Shawn Lowman		Date Analyzed: 12/22/2020	12/22/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.81
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		3.73
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		2.94
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		N

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Method: EPA 537.1 - PFAS Lab No.: E21001627002

12/21/2020 Date Collected: 12/21/2020 Date Received:

Field ID: FB-006-0008-TPO Submitted By: Shawn Lowman	ne	Date Analyzed: 12/22/2020	12/22/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ON.
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		NΩ
Perfluorooctanesulfonic acid (PFOS)	2.0		NO
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Temperature Blank: $\frac{O}{H_1 \text{ iz}}$ °C $\frac{\circ}{2}$ 1/10

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

NALYSIS REQUEST FORM	
NALYSIS RE	
BORATORY AN	
\preceq	

Please write legibly Plant/Site Name: New Windsor Hillside Well a	Please write legibly Rease \mathcal{M}_{\sim} \mathcal{M}_{\sim} \mathcal{M}_{\sim} \mathcal{M}_{\sim}		County: Colin !!	
Location: //at	Sample Source: En	~	New Windsor	
Collector/ID: Shown Lowmen	759200	Phone No.:	4.00. 394- 7884	
900 8000	0 8000	0602/ 16/ 6/ 6/000	710 (mpm	
y System No. 7,8	PWSID Pla	Plant No. Date Collected O, S Total CI:	0.5	
© Drinking water □ Private © Community □ Non-Community	liment	□ Source (water) □ Distribution (treated) □ Water Treatment Plant POE	□ Oild □ Other □	921
Specify Program: SDWA NPDES	S 🗆 RCRA	□ CWA □ CERCLA	□ Consumer Products	
	Field & Trip Blank	Preservative Used	Comment	
(DBCP)	☐ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 508 [Aroclors (SCAN ☐ Finonly) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate		
EPA Method 515.3 (Herbicides)	ield Blank	☐ Sodium thiosulfate		
	☐ Field Blank	☐ HCL (6N)		
☐ EPA Method 531.2 (Carbamates) ☐ Fi	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate		
☐ FPA Method 552.2 (Haloacetic acids) ☐ Fi	☐ Field Blank	☐ Ammonium chloride		
EPA Method 8270 (Semi-Volatiles)		☐ Sodium thiosulfate		
	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate		
区 EPA Method 8280 (VOCS) \$37.1 [日	B Field Blank	Of Tizme		
	E21001627004 Received: 12/21/2020 EPA 537 Organics FB-006-00			
Remarks: Lab Supervisor:		Date Reported:	orted:	
	•Phone: (443) 681-3857 ORIGINAL-	857 • Fax: (443) 681-4507 ORIGINAL - LABORATORY	THE STATE OF THE S	





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Method: EPA 537.1 - PFAS Lab No.: E21001627003

Date Collected: 12/21/2020 12/21/2020 004-0008-TP03W Date Received:

Field ID: 006-0008-TP03W Submitted By: Shawn Lowman	Date Analyze	Date Analyzed: 12/22/2020
Contaminant	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0		QN
4,8-dioxa-3H-perfluorononanoic acid (ADONA)		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)		ND
Perfluorobutanesulfonic acid (PFBS)		1.21
Perfluorodecanoic acid (PFDA)		ND ON
Perfluorododecanoic acid (PFDoA)		ND
Perfluoroheptanoic acid (PFHpA)		ND
Perfluorohexanesulfonic acid (PFHxS)		QN
Perfluorohexanoic acid (PFHxA)		2.87
Perfluorononanoic acid (PFNA)		QN
Perfluorooctanesulfonic acid (PFOS)		QN
Perfluorooctanoic acid (PFOA)		1.48
Perfluorotetradecanoic acid (PFTDA) 1.0		QN
Perfluorotridecanoic acid (PFTrDA)		ND
Perfluoroundecanoic acid (PFUnDA)		QN

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Method: EPA 537.1 - PFAS Lab No.: E21001627004 12/21/2020 Date Collected: 12/21/2020 Date Received:

Field ID: FB-006-0008-TP0 Submitted By: Shawn Lowman	nan	Date Analyzed: 12/22/2020	12/22/2020
Contaminant	묎	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		NΩ
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluoronanoic acid (PFNA)	2.0		ΩN
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		QN

Comments:

Approval date: 12/30/2020 Approved by:

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue

	BALTIMORE, MARYLAND 21205	LAND 21205	
	LABORATORY ANALYSIS REQUEST FORM Please write legibly	IS REQUEST FORM egibly	
Bottle No.: 010-0036-770 PI	Plant/Site Name: Liber Lytow	town Apts	County: FRED
Location: 80 & WIP	Sample So	Sample Source: 8 H swells outher	Town or Oity
Collector/ID: 14 (323	402	Phone No.:	757t 97017
O O O O O O O O O O	9 2 0 0 0 1		20 SIS Californ Time Collected
Field Data: pH 8.	Free CI:	Tot	Total CI: 1.4
Sample Type: Definking water	□ Landfill □ Sour □ Stream □ Dist □ Soil/Sediment ┗-₩at	□ Source (water) □ Distribution (treated) □ Water Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: SWWA DN	□ NPDES □ RCRA	□ CWA □ CERCLA	□ Consumer Products
	Field & Trip Blank	Preservative Used	Comment
- 1	☐ Field Blank	☐ Sodium thiosulfate	
	☐ Field Blank	☐ Sodium thiosulfate	
- 1	☐ Field Blank	☐ Sodium thiosulfate	
- 1		☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
E EPA Method 524.2 (Volatiles) E VOGS D THMS PEAS S33.	G-Field Blank 디 Trip Blank	□ 1:1 HCL + Ascorbic acid	
☐ EPA Method 8260 (VOCs)		76000 0	
E21001632001 F21001632001 Received: 1272/2020 EPA 537.1 Organics 010-0036-TPO	E21001632002 Received: 1222/2020 EPA 537 Organics FB-010-00	002 2020 EPA 537.1 FB-010-0036-1	
		-	
kemarks:			
oh Curomina			

Phone: (443) 681-3857

MDH98 (02/18)

Date Reported:

•Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Method: EPA 537.1 - PFAS Lab No.: E21001632001

12/21/2020 Date Collected: 12/22/2020 Date Received:

Field ID: 010-0036-TP01 Submitted By: Holt		Date Analyzed: 12/22/2020	12/22/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		Q
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		N
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		N
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.30
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

'All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Method: EPA 537.1 - PFAS Lab No.: E21001632002

12/21/2020 Date Collected: 12/22/2020 Date Received:

Field ID: FB-010-0036-TP0 Submitted By: Holt		Date Analyzed: 12/22/2020	12/22/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		Q.
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		N
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		N
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		NO
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		Q.
Perfluorobutanesulfonic acid (PFBS)	1.0		N Q
Perfluorodecanoic acid (PFDA)	1.0		QN Q
Perfluorododecanoic acid (PFDoA)	2.0		QN Q
Perfluoroheptanoic acid (PFHpA)	2.0		Q.
Perfluorohexanesulfonic acid (PFHxS)	1.0		Q.
Perfluorohexanoic acid (PFHxA)	1.0		QN ON
Perfluorononanoic acid (PFNA)	2.0		Q.
Perfluorooctanesulfonic acid (PFOS)	2.0		Q.
Perfluorooctanoic acid (PFOA)	1.0		N
Perfluorotetradecanoic acid (PFTDA)	1.0		Q.
Perfluorotridecanoic acid (PFTrDA)	2.0		QN Q
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call 443-681-3857 and arrange for return or destruction. *All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

OC | TAZZ | 150

Temperature Blank: 10

LABORATORY ANALYSIS REQUEST FORM

Bottle No.: 010 ~6020- 1701 Plant/Site Name: 1	3	dea s vi il e- 1 C Win County:	unty:
Location: POLO WR	Sample Source:	Al sources	owfile Town or City
Collector TBIL 532374	1	Phone No.:	Phone No. 4 (04467132
0 1 0 0 2 0 0 1 O County System No.	0 2 0 0 0		430 Galpan Time Collected
ta: nH	Free CI:	S Total Cli.	n. 2.,1
		ö	
Sample Type: Drivate D I	□ Landfill □ Sour	☐ Source (water)	□ Oil □ Solid
	diment	ıt POE	□ Other
L Non-Community			
Specify Program: G-8DWA ONP	O NPDES O RCRA	□ CWA □ CERCLA	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)		☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	Ĭ	☐ Sodium thiosulfate	
EPA Method 524.2 (Volatiles)	☐ Trip Blank	□ 1:1 HCL + Ascorbic acid □ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate w coul	
☐ EPA Method 8260 (VOCs)			
Received: 12/22/2020 EPA 537.1 Organics 010-0020-TPO	Received: 12/22/2020 EPA 537.1 Organics FB-010-0020	2020 EPA 537.1 FB-010-0020-1	
Remarks:			
Lab Supervisor:		Date Reported:	ported:

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

•Fax: (443) 681-4507

Phone: (443) 681-3857

ORIGINAL - LABORATORY





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Lab No.: E21001632003

Method: EPA 537.1 - PFAS

Date Collected: 12/21/2020 12/22/2020 Date Received:

Field ID: 010-0020-TP01 Submitted By: Holt		Date Analyzed: 12/22/2020	12/22/2020
Contaminant	12	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0	0.		Q.
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		Q.
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	0.		Q.
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.		QN Q
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5	τύ		QN
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	0.		N
Perfluorobutanesulfonic acid (PFBS)	0.		2.73
Perfluorodecanoic acid (PFDA)	0.		QN QN
Perfluorododecanoic acid (PFDoA)	0.		ND
Perfluoroheptanoic acid (PFHpA)	0.		N
Perfluorohexanesulfonic acid (PFHxS)	0.		N
Perfluorohexanoic acid (PFHxA)	0.		1.42
Perfluorononanoic acid (PFNA)	0.		N
Perfluorooctanesulfonic acid (PFOS)	0.		2.45
Perfluorooctanoic acid (PFOA)	0.		2.01
Perfluorotetradecanoic acid (PFTDA)	0.		QN
Perfluorotridecanoic acid (PFTrDA) 2.0	0.		QN
Perfluoroundecanoic acid (PFUnDA)	0.		QN

Comments:

Approval date: 12/30/2020 Approved by: *All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001632004

4 Method: EPA 537.1 - PFAS

Date Collected: 12/21/2020 12/22/2020 Date Received:

Field ID: FB-010-0020-TPO Submitted By: Holt		Date Analyzed: 12/22/2020	12/22/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		QN
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		NO
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		QN
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		N
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		N
Perfluorododecanoic acid (PFDoA)	2.0		N
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		N
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		QN
Perfluorooctanoic acid (PFOA)	1.0		QN
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

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Temperature Blank: 1.6 °C

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

LABORATORY ANALYSIS REQUEST FORM

Bottle No.: 010-0020-7804 Pla	ant/Site Name:	Bortle No.: 010-0020-Mod Plant Site Name: Dedp we - December County: FROD	FROD
Location: POLC WN	Sample So	Sample Source: 3 Wells active	Town or City
Collector/ID: Ho H 6 323 OH		none No.:	467436
7		72	
County System No.	000000 PWSID	0 (4) 12/21/2020 Plant No. Date Collected	1000 Junera Time Collected
Field Data: pH 6.8	Free CI:	Total CI:	8
Sample Type: LeDrinking water	□ Landfill □ Sou	□ Source (water) □ Oil □ Oil □ Oistentbarfon (freated)	
nity mmunity	diment	t POE	
Specify Program: ASDWA DNI	□ NPDES □ RCRA	□ CWA □ CERCLA □ Cor	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N)	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
U I	☐ Field Blank	☐ Ammonium chloride	
tiles) rrs		☐ Sodium thiosulfate	
9s) 1s	☐ Field Blank ☐ Trip Blank	□ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate ως color	
☐ EPA Method 8260 (VOCs)			
E21001632005 Received: 12/22/2020 EPA 537.1 Organics 010-0020-TPo	E21001632006 Received: 12222222 EPA 537.1 Organics FB-010-0020	306 2020 EPA 537.1 FB-010-0020-1	
Remarks:			
Lab Supervisor:		Date Reported:	

ORIGINAL - LABORATORY

•Fax: (443) 681-4507 •Phone: (443) 681-3857

SAMPLE TESTED AS RECEIVED

MDH98 (02/18)





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Method: EPA 537.1 - PFAS Lab No.: E21001632005

12/21/2020 12/22/2020 Date Received:

Date Received: 12/22/2020 Date Collected: 12/21/2020 Field ID: 010-0020-TP04 Submitted By: Holt		Date Analyzed: 12/23/2020	12/23/2020
Contaminant	R	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		5.20
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		3.49
Perfluorohexanesulfonic acid (PFHxS)	1.0		2.53
Perfluorohexanoic acid (PFHxA)	1.0		6.27
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		7.45
Perfluorooctanoic acid (PFOA)	1.0		6.22
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		QN

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Method: EPA 537.1 - PFAS Lab No.: E21001632006

12/21/2020 Date Collected: 12/22/2020 Date Received:

Field ID: FB-010-0020-TPO Submitted By: Holt		Date Analyzed: 12/23/2020	12/23/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		Q
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Temperature Blank: 1.0 °c RH (ZIZZ)

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

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20	UEST
LI LAIND 2120	JALYSIS REQUEST FORM
MANITA	TASIS
SALLIMONE, MAI	A
DALLI	ABORATORY
	ABORA
	P

Bottle No.: 010-0020-1703 Plant/Site Name: Mychaville - Asllcy SD County: FRM	nt/Site Name: Mycasy	wille-Asily SD county:	FREN
Location: POE C. W.N	Sample Sou	Sample Source: Wells 12, £3	Town or Gity
Collector/ID: HH 6323 TH		Phone No.: +16	しってんってもって
0 1 0 0 2 0 0 1 County System No.	02000	03 12,2 (/201.0 Plant No. Date Collected	1045 Calipm Time Collected
Field Data: pH 7.0	Free CI: D. S	Z Total CI:	1.1
Sample Type: Derinking water	□ Landfill □ Sour □ Stream □ Distr □ Coil/Sediment □ Distr	□ Source (water) □ Oil □ Distribution (treated) □ Solid □ Solid □ Water Treatment Plant POE □ Other	id
Specify Program: CLSDWA NI	□ NPDES □ RCRA	□ CWA □ CERCLA □ C	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
tiles) rs		☐ Sodium thiosulfate	
Characters (Volatiles)	ायमांeld Blank □ Trip Blank	四元:LigeL TRでM子 □ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate No Caup	
☐ EPA Method 8260 (VOCs)			
E21001632007 E21001633007 Received: 12/22/2020 EPA 537.1 Organics 010-0020-TP0	E21001632008 Received: 12/22/2020 EPA 537.11 Organics FB-010-0020-1	008 2020 EPA 537.1 FB-010-0020-1	
Remarks:			

Phone: (443) 681-3857

Lab Supervisor:

Date Reported:

ORIGINAL - LABORATORY

•Fax: (443) 681-4507





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Lab No.: E21001632007

Method: EPA 537.1 - PFAS

12/21/2020 Date Collected: 12/22/2020 Date Received:

Field ID: 010-0020-TP03 Submitted By: Holt		Date Analyzed: 12/23/2020	12/23/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ΩN
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		9.05
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		2.77
Perfluorohexanesulfonic acid (PFHxS)	1.0		2.63
Perfluorohexanoic acid (PFHxA)	1.0		3.07
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		9.53
Perfluorooctanoic acid (PFOA)	1.0		5.72
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call 443-681-3857 and arrange for return or destruction. *All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Fax: (443) 681-4507



Laboratories Administration Division of Environmental Sciences ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director State of Maryland Department of Health



Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Method: EPA 537.1 - PFAS Lab No.: E21001632008

Date Collected: 12/21/2020 12/22/2020 Date Received:

Field ID: FB-010-0020-TP0. Submitted By: Holt		Date Analyzed: 12/23/2020	12/23/2020
Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		QN Q
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

'All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

8						: V	ě					1									1
Temperature Blank: 1.0 °C		County: Willowico	Charoton	410446395	830 Amiran Time Collected	0.10		□ Consumer Products	Comment												
perature Bl		County:	المهرا	4017	2	Total CI: 0	□ Oil □ Solid □ Other	□ Con						0							
	-ORM		tate St	Phone No.:	2 / 22/20 20 Date Collected	Tot	J) ant POE	□ CERCLA	Preservative Used	ulfate	ulfate	ulfate	m.	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	hloride	ulfate	corbic acid ulfate	ردر]
State of Maryland MDH - Laboratories Administration Division of Environmental Chemistry ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue BALTIMORE, MARYLAND 21205	LABORATORY ANALYSIS REQUEST FORM Please write legibly	Vmals	Sample Source: 103 State St		, o	0.08	☐ Source (water) ☐ Distribution (treated) ☐ Water Treatment Plant POE	□ CWA	Preserva	□ Sodium thiosulfate	☐ Sodium thiosulfate	☐ Sodium thiosulfate	☐ Sodium sulfite	Depassion Ci Sodium thios	☐ Ammonium chloride	3 Sodium thios	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	MYRIZMA No color sticker	644002 12/23/2020 EPA 637.1 FB022-0006-T	l:	
State of Maryland MDH - Laboratories Administration Division of Environmental Chemistry NICS ANALYTICAL LABOR, 1770 Ashland Avenue BALTIMORE, MARYLAND 21205	ANALYSIS R	Plant/Site Name: Sharpfoun	Sample Source	Sy.	O Plant	Free CI:		□ RCRA	П									Black	- Total		
MDH - Le Division o RGANICS AN 177 BALTIIN	SORATORY	nt/Site Name:		0976 WR	00 C C 0	Free	□ Landfill □ Stream □ Soil/Sediment		Field & Trip Blank	☐ Field Blank	☐ Field Blank	☐ Field Blank	L rieid blank	☐ Field Blank	☐ Field Blank		☐ Field Blank ☐ Trip Blank	O Field Blank	E21 Recei		
0	LAE			2			È	□ NPDES					des)		_	olatiles)					
ö		F-5000-	tower	Beatty	OOO System No.	45	D.Drinking water Private	: ta SDWA	Test Requested	EPA Method 504.1 (EDB/DBCP)	EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	EPA Method 515.3 (Herbicides)	ozo.z (Pestici	EPA Method 531.2 (Carbamates)	EPA Method 552.2 (Haloacetic acids)	EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	EPA Method 524.2 (Volatiles)	EPA Method 8269 (VOC9) 537.1	E21001644001 Received: 1223/2020 EPA 537 Organics 022-0006-1		
Send Report to:		Bottle No.: 022~000 5-TPO	Location: 10	Collector/ID:	County	Field Data: pH	Sample Type: (Q	Specify Program: 🗹 SDWA	Test	EPA Method	EPA Method only) & Toxar	EPA Method	EFA IMEITION	EPA Method	EPA Method	EPA Method □ Pesticide	EPA Method □ VOCS	EPA Method 99	E21001644001 Received: 1223/2020 Organics 02		Remarks:

• Phone: (443) 681-3857

•Fax: (443) 681-4507

Date Reported:

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED





Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Lab No.: E21001644001

Method: EPA 537.1 - PFAS

Date Collected: 12/22/2020 12/23/2020 Date Received:

Field ID: 022-0005-TP01 Submitted By: Beatty	Date Ar	nalyzed:	Date Analyzed: 12/23/2020
Contaminant	MCL		Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0			ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)			ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)			QN
Hexafluoropropylene oxide dimer acid (HFPO-DA)			ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)			QN
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)			N
Perfluorobutanesulfonic acid (PFBS) 1.0			QN Q
Perfluorodecanoic acid (PFDA)			Q.
Perfluorododecanoic acid (PFDoA)			QN
Perfluoroheptanoic acid (PFHpA)			QN ON
Perfluorohexanesulfonic acid (PFHxS) 1.0			ND
Perfluorohexanoic acid (PFHxA)			Q
Perfluorononanoic acid (PFNA)			QN
Perfluorooctanesulfonic acid (PFOS) 2.0			N
Perfluorooctanoic acid (PFOA)			QN
Perfluorotetradecanoic acid (PFTDA)			QN Q
Perfluorotridecanoic acid (PFTrDA)			ND
Perfluoroundecanoic acid (PFUnDA)			Q Q

Comments:

Approved by:

Approval date: 12/30/2020

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.



ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director Division of Environmental Sciences State of Maryland Department of Health Laboratories Administration



Certificate of Analysis

MDE WATER QUAL MONITORING PROG

416 CHINQUAPIN ROUND ROAD

ANNAPOLIS, MD 21401

Lab No.: E21001644002

Method: EPA 537.1 - PFAS

Date Collected: 12/22/2020 12/23/2020 Date Received:

Date Received: 12/23/2020 Field ID: FB022-0005-TP01 Submitted By: Beatty		Date Analyzed: 12/23/2020	12/23/2020
Contaminant	R	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		NO
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		QN
Perfluorononanoic acid (PFNA)	2.0		NO
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		N
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 12/30/2020

All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call 443-681-3857 and arrange for return or destruction.

Fax: (443) 681-4507

Send Report to:	State of Maryl	and Tem	perature Blank: 1.0 °C
	MDH - Laboratories Ad Division of Environmen	ministration	RH 12129/20
	ORGANICS ANALYTICA 1770 Ashland Av		200
	BALTIMORE, MARY		
LA	ABORATORY ANALYS Please write I		
Bottle No.: 006-0007-7704 Pl Location: 1/a ₁ †	ant/Site Name: <u>Mant A</u>	Diry Summit Ridge	County: Larroll
Location: Plant	Sample So	urce: 508 Bohn Rd	Mount Airy Town or City
Collector/ID: Shawn Lowne		765L Phone No.:	410-294-7884
County System No.		Plant No. Date Collected	
Field Data: pH 7,4	Free CI:	. 7 Tota	ol CI:
Sample Type: Drinking water	Landfill □ Sou	rce (water)	□ Oil
□ Private □		tribution (treated)	□ Solid
		er Treatment Plant POE	
□ Non-Community			
Specify Program: ☐ SDWA ☐ N	PDES RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	15
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL = ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8260 (VOCs) 537.1	K Field Blank	1 Trizma	
E21001654001 Received: 12/29/2020 EPA 537.1 Organics 006-0007-TP04	E210016540 Received: 12/29/2 Organics	02	
		1.	
Remarks: Well & Sample	1 Well 10 of	fline	
Lab Supervisor:		Date Re	ported:/
•Phone:	(443) 681-3857	•Fax: (443) 681-4507	





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001654001 Method: EPA 537.1 - PFAS

Date Received: 12/29/2020 Date Collected: 12/29/2020

Field ID:	006-0007-TP04	Submitted By:	Lowman		Date Analyzed:	12/30/2020
Contamina	ant			<u>RL</u>	<u>MCL</u>	Result
1-chloroeid	cosafluoro-3-oxaundecane-1	-sulfonic acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	3H-perfluorononanoic acid (A	ADONA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-	I-sulfonic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	ppropylene oxide dimer acid ((HFPO-DA)		1.0		ND
N-ethyl per	rfluorooctanesulfonamidoace	etic acid (N-EtFOSAA)		2.5		ND
N-methyl p	perfluorooctanesulfonamidoa	cetic acid (N-MeFOSAA)		3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorod	ecanoic acid (PFDA)			1.0		ND
Perfluorod	odecanoic acid (PFDoA)			2.0		ND
Perfluoroh	eptanoic acid (PFHpA)			2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)			1.0		ND
Perfluoroh	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)			2.0		ND
Perfluoroo	ctanoic acid (PFOA)			1.0		ND
Perfluorote	etradecanoic acid (PFTDA)			1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/05/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001654002 Method: EPA 537.1 - PFAS

Date Received: 12/29/2020 Date Collected: 12/29/2020

Field ID:	FB-006-0007-TP04	Submitted By:	Lowman		Date Analyzed:	12/30/2020
Contamina	ant			<u>RL</u>	<u>MCL</u>	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-s	ulfonic acid (11CI-PF3OU	ldS)	2.0		ND
4,8-dioxa-3	3H-perfluorononanoic acid (AE	OONA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-	sulfonic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	ppropylene oxide dimer acid (H	IFPO-DA)		1.0		ND
N-ethyl pe	rfluorooctanesulfonamidoaceti	c acid (N-EtFOSAA)		2.5		ND
N-methyl p	perfluorooctanesulfonamidoace	etic acid (N-MeFOSAA)		3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorod	ecanoic acid (PFDA)			1.0		ND
Perfluorod	odecanoic acid (PFDoA)			2.0		ND
Perfluoroh	eptanoic acid (PFHpA)			2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)			1.0		ND
Perfluoroh	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)			2.0		ND
Perfluoroo	ctanoic acid (PFOA)			1.0		ND
Perfluorote	etradecanoic acid (PFTDA)			1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/05/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Maryli MDH - Laboratories Adr Division of Environment ORGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARYI	tal Chemistry L LABORATORY enue	RH 12129120
LA	BORATORY ANALYS	IS REQUEST FORM	
	Please write l		
00/ 0007-100	Marit	1. 1.11 5.1	Cicall
Bottle No.: 006-0007-700 Pl	ant/Site Name:	HITY WELLS IF 6	County:
Location: Plant	Sample Sou	Airy Wells 506 (urce: 301H West Watersvil	Town or City
Collector/ID: Shawn Lowman	00 7656	Phone No.:	410 294 7884
0 0 6 0 0 7 0 0 COUNTY System No.	PWSID	O D 1) / J4/20 Date Collected	700 8/5 amorn Time Collected
Field Data: pH	Free CI:	Total	CI: /, 4
□ Private □	Stream	rce (water) tribution (treated) ter Treatment Plant POE	□ Oil □ Solid □ Other
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	II.
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8260 (VOCs) \$37.1	K Field Blunk	B Trizma	
E21001654003 Received: 12/29/2020 EPA 537.1 Organics 006-0007-TP02	E210016540 Received: 12/29/2 Organics	04	
Remarks: Wells 506 Samp	iled		<u> </u>
Lab Supervisor:	(443) 681-3857	Date Rep	oorted:/

•Fax: (443) 681-4507





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001654003 Method: EPA 537.1 - PFAS

Date Received: 12/29/2020 Date Collected: 12/29/2020

Field ID:	006-0007-TP02	Submitted By:	Lowman		Date Analyzed:	12/30/2020
Contamina	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OUd	dS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	kadecafluoro-3-oxanonane-1-sulfonic	acid (9CI-PF3ONS	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO-D	A)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic acid	(N-MeFOSAA)		3.0		ND
Perfluorobu	itanesulfonic acid (PFBS)			1.0		2.25
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		2.30
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		2.88
Perfluorohe	exanoic acid (PFHxA)			1.0		3.90
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	etanesulfonic acid (PFOS)			2.0		5.07
Perfluorood	etanoic acid (PFOA)			1.0		4.50
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/05/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001654004 Method: EPA 537.1 - PFAS

Date Received: 12/29/2020 Date Collected: 12/29/2020

Field ID:	FB-006-0007-TP02	Submitted By:	Lowman		Date Analyzed:	12/30/2020
Contamina	ant			<u>RL</u>	<u>MCL</u>	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-sı	ulfonic acid (11CI-PF3OU	ldS)	2.0		ND
4,8-dioxa-3	3H-perfluorononanoic acid (AD	ONA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-s	sulfonic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	ppropylene oxide dimer acid (H	FPO-DA)		1.0		ND
N-ethyl pe	rfluorooctanesulfonamidoacetio	acid (N-EtFOSAA)		2.5		ND
N-methyl p	perfluorooctanesulfonamidoace	tic acid (N-MeFOSAA)		3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorod	ecanoic acid (PFDA)			1.0		ND
Perfluorod	odecanoic acid (PFDoA)			2.0		ND
Perfluoroh	eptanoic acid (PFHpA)			2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)			1.0		ND
Perfluoroh	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)			2.0		ND
Perfluoroo	ctanoic acid (PFOA)			1.0		ND
Perfluorote	etradecanoic acid (PFTDA)			1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by: Approval date: 01/05/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Maryl MDH - Laboratories Adr Division of Environment ORGANICS ANALYTICA 1770 Ashland Avc BALTIMORE, MARY	ministration tal Chemistry L LABORATORY chue	perature Blank: 1.0 'c RH 12129.120		
LA	ABORATORY ANALYS				
Bottle No.: 006 0007 - TPO 1 PI	ant/Site Name: Maint A	in Prospect West	County: Coll. 11		
Location: //w/t	Sample Sou	urce: 7056 Prospect Rd	Mount Airy Town or City		
Collector/ID: Shaws Lowner	007	Phone No.:	410 294 - 7884		
0 0 6 0 0 7 0 0 County System No.	PWSID		7 Time Collected		
Field Data: pH	Free CI:	Total	CI:		
□ Private □	Stream Dist Soil/Sediment Wat	rce (water) tribution (treated) er Treatment Plant POE CWA CERCLA	□ Oil □ Solid □ Other		
Test Requested	Field & Trip Blank	Preservative Used	Comment		
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate			
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate			
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate			
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite			
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate			
EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride			
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate			
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate			
EPA Method 8268 (VOCs) 537. / FAS	& Field Blank	10 Trizma			
E21001654005 Received: 12/29/2020 EPA 537.1 Organics 006-0007-TP01	E210016540 Received: 12/29/2 Organics	06			
Remarks: All wells cont	ned	Date Per	oorted:/		
	(443) 681-3857	•Fax: (443) 681-4507			





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001654005 Method: EPA 537.1 - PFAS

Date Received: 12/29/2020 Date Collected: 12/29/2020

Field ID:	006-0007-TP01	Submitted By:	Lowman		Date Analyzed:	12/30/2020
Contamina	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfonio	acid (11Cl-PF3OU	ldS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	kadecafluoro-3-oxanonane-1-sulfon	c acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO-	DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid	(N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic ac	id (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		7.61
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		3.01
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		1.50
Perfluorohe	exanoic acid (PFHxA)			1.0		4.47
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		7.47
Perfluorood	etanoic acid (PFOA)			1.0		4.94
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/05/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001654006 Method: EPA 537.1 - PFAS

Date Received: 12/29/2020 Date Collected: 12/29/2020

Field ID:	FB-006-0007-TP01	Submitted By:	Lowman		Date Analyzed:	12/30/2020
Contamina	ant			<u>RL</u>	<u>MCL</u>	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-s	ulfonic acid (11Cl-PF3OU	ldS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (AD	OONA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-	sulfonic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (H	IFPO-DA)		1.0		ND
N-ethyl per	rfluorooctanesulfonamidoaceti	c acid (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoace	etic acid (N-MeFOSAA)		3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorod	ecanoic acid (PFDA)			1.0		ND
Perfluorod	odecanoic acid (PFDoA)			2.0		ND
Perfluoroh	eptanoic acid (PFHpA)			2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)			1.0		ND
Perfluoroh	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)			2.0		ND
Perfluoroo	ctanoic acid (PFOA)			1.0		ND
Perfluorote	etradecanoic acid (PFTDA)			1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/05/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Mary! MDH - Laboratories Ad Division of Environmen	ministration	perature Blank: 1.0 c Z
	ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	enue	1.37.3
	ABORATORY ANALYS		
	Please write	legibly	
Bottle No.: 006-0007-TP05 Pl Location: Plant	ant/Site Name: Mount	Airy Well 9	County: Corroll
Location: Plant	Sample So	urce: N. Amapolis Drive	Maint Airy Town or City
Collector/ID: Show Lown	on 00		410-294-7884
0 0 6 0 7 0 0 7 0 0) 6 0 0 0 7 PWSID	0 5 12 / 39 /20 2	705 (sm/m) Time Collected
Field Data: pH 7.4	Free CI:	Total	CI:
		arce (water)	□ OiI
		tribution (treated)	
☐ Community ☐	Soil/Sediment Wat	ter Treatment Plant POE	□ Other
Specify Program: ☑ SDWA ☐ N	PDES □ RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	Comment
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) · ☐ Sodium sulfite	ii:
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8268 (VOCs) 537-1	K Field Blank	& Trizma	
E21001654007 Received: 12/29/2020 EPA 537.1 Organics 006-0007-TP05	E210016540 Received: 12/29/2	08	
Remarks:			
Lab Supervisor:		Date Rep	ported: / /
		Date Kep	/UI WIGH/

•Phone: (443) 681-3857

•Fax: (443) 681-4507





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001654007 Method: EPA 537.1 - PFAS

Date Received: 12/29/2020 Date Collected: 12/29/2020

Field ID:	006-0007-TP05	Submitted By:	Lowman		Date Analyzed:	12/30/2020
Contamina	ant .			<u>RL</u>	<u>MCL</u>	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-	sulfonic acid (11CI-PF3OU	dS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (A	DONA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1	-sulfonic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoace	tic acid (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoac	cetic acid (N-MeFOSAA)		3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		1.31
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		3.39
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)			2.0		ND
Perfluoroo	ctanoic acid (PFOA)			1.0		3.78
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by: Approval date: 01/05/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001654008 Method: EPA 537.1 - PFAS

Date Received: 12/29/2020 Date Collected: 12/29/2020

Field ID:	FB-006-0007-TP05	Submitted By:	Lowman		Date Analyzed:	12/30/2020
Contamina	an <u>t</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-su	ulfonic acid (11CI-PF3OU	dS)	2.0		ND
4,8-dioxa-3	3H-perfluorononanoic acid (AD	ONA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-s	sulfonic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (H	FPO-DA)		1.0		ND
N-ethyl per	rfluorooctanesulfonamidoacetic	acid (N-EtFOSAA)		2.5		ND
N-methyl p	perfluorooctanesulfonamidoace	tic acid (N-MeFOSAA)		3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorod	ecanoic acid (PFDA)			1.0		ND
Perfluorod	odecanoic acid (PFDoA)			2.0		ND
Perfluoroh	eptanoic acid (PFHpA)			2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)			1.0		ND
Perfluoroh	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)			2.0		ND
Perfluoroo	ctanoic acid (PFOA)			1.0		ND
Perfluorote	etradecanoic acid (PFTDA)			1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/05/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Maryl MDH - Laboratories Adr Division of Environmen ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	ministration tal Chemistry L LABORATORY enue	mperature Blank: 1-0 °C RH 12129170
LA	ABORATORY ANALYS		
00/ 0007 7007			<i>(</i> //
Bottle No.: 006-0007-7703 Pl	ant/Site Name: //oun7	Ally Wells this	County: Carroll
Location: Plunt	Sample So	urce: 1302 b Parkinge l	County: Carroll Drive Mount Airy Town or City
Collector/ID: Shown Lowner	0071	6 5L Phone No.:	410-294-7884
0 0 6 0 7 0 0 County System No.	PWSID	0 3 13 /3 4 /20 Date Collected	1
Field Data: pH	Free CI:	1. 2 To	tal CI:
□ Private □ □ Community □ □ Non-Community	Stream Dist Soil/Sediment Wat	rce (water) tribution (treated) er Treatment Plant POE	
Specify Program: □ SDWA □ N	PDES □ RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N)	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Sodium sulfite ☐ Potassium Citrate monobas	io
EFA Wethod 551.2 (Carbanates)	L Fleid Blatik	☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method-8260 (VOCe) 537.1	& Field Blank	E Trizma	
E21001654009 Received: 12/29/2020 EPA 537.1 Organics 006-0007-TP03	E210016540 Received: 12/29/2 Organics	10	
Remarks: Both wells running	ry at time of	sumple	
Lab Supervisor:			Seported:/

Phone: (443) 681-3857

•Fax: (443) 681-4507





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001654009 Method: EPA 537.1 - PFAS

Date Received: 12/29/2020 Date Collected: 12/29/2020

Field ID:	006-0007-TP03	Submitted By:	Lowman		Date Analyzed:	12/30/2020
Contamina	<u>ant</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-su	lfonic acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (ADG	ONA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-s	ulfonic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HF	FPO-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic	acid (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacet	ic acid (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		1.08
Perfluorode	ecanoic acid (PFDA)			1.0		1.08
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		4.27
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		11.70
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		3.05
Perfluorood	ctanoic acid (PFOA)			1.0		9.10
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/05/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001654010 Method: EPA 537.1 - PFAS

Date Received: 12/29/2020 Date Collected: 12/29/2020

Field ID:	FB-006-0007-TP03	Submitted By:	Lowman		Date Analyzed:	12/30/2020
Contamina	<u>ant</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-sı	ulfonic acid (11CI-PF3OU	dS)	2.0		ND
4,8-dioxa-3	3H-perfluorononanoic acid (AD	ONA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-s	sulfonic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	ppropylene oxide dimer acid (H	FPO-DA)		1.0		ND
N-ethyl pe	rfluorooctanesulfonamidoacetio	acid (N-EtFOSAA)		2.5		ND
N-methyl p	perfluorooctanesulfonamidoace	tic acid (N-MeFOSAA)		3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorod	ecanoic acid (PFDA)			1.0		ND
Perfluorod	odecanoic acid (PFDoA)			2.0		ND
Perfluoroh	eptanoic acid (PFHpA)			2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)			1.0		ND
Perfluoroh	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)			2.0		ND
Perfluoroo	ctanoic acid (PFOA)			1.0		ND
Perfluorote	etradecanoic acid (PFTDA)			1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approved date: 01/05/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Maryl. MDH - Laboratories Adi Division of Environment ORGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARY	ministration tal Chemistry L LABORATORY	AT 01/06/21
	ABORATORY ANALYS	egibly	
Bottle No.: 012-0009-01 P	lant/Site Name:	of Dat william	County: Har Ford
Location: WIP POE tap	Sample Sou	urce: Anlerson Ave	Darlington Town or City of ton
Collector/ID: Looking	(and GL 7210	Phone No.:	4104192709
County System No.		Plant No. 1 / 6 /207	1 0800 minum Time Collected
Field Data: pH 6.7	Free CI:	0.96 Total	CI: 0.96
The state of the s		rce (water)	□ Oil
	Stream □ Dist	tribution (treated)	□ Solid
Community □ □ Non-Community	Soil/Sediment Wat	er Treatment Plant POE	Utner
·	IPDES □ RCRA	□ CWA □ CERCLA	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
□ EPA Method 504.1 (EDB/DBCP)	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 515.3 (Herbicides)	☐ Field Blank ☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Fleig Blank	☐ HCL (6N) ☐ Sodium sulfite	A
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles)☐ Pesticides☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
EPA Method 8260 (VOGs) 537. 1	X Field Blank	X TRIZMA	
E21001726001 Received: 01/06/2021 EPA 537.1 Organics 012-0009-01		II TO HOL SILVE	
Remarks:			
•	: (443) 681-3857	Date Rep •Fax: (443) 681-4507	oorted:/





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001726001 Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021

Field ID:	012-0009-01	Submitted By:	Lookingland		Date Analyzed:	01/08/2021
Contamina	<u>ınt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane	-1-sulfonic acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid	(ADONA)		1.0		ND
9-chlorohe	kadecafluoro-3-oxanonan	e-1-sulfonic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer aci	d (HFPO-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoa	acetic acid (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamid	oacetic acid (N-MeFOSAA)		3.0		ND
Perfluorobu	ıtanesulfonic acid (PFBS)			1.0		1.36
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHx	3)		1.0		2.49
Perfluorohe	exanoic acid (PFHxA)			1.0		1.48
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)	1		2.0		5.88
Perfluorood	ctanoic acid (PFOA)			1.0		2.91
Perfluorote	tradecanoic acid (PFTDA)		1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/15/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001726002 Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021

Field ID:	FB-012-0009-01	Submitted By:	Lookingland		Date Analyzed:	01/08/2021
Contamina	<u>ant</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeid	osafluoro-3-oxaundecane-1	-sulfonic acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (A	ADONA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-	1-sulfonic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid	(HFPO-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoace	etic acid (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoa	cetic acid (N-MeFOSAA)		3.0		ND
Perfluorobi	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluoroo	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/15/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Maryl MDH - Laboratories Ad Division of Environmen ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	ministration Ital Chemistry .L LABORATORY enue	AT 01 06 21
L	ABORATORY ANALYS Please write I		
Bottle No.: 015 - 0002 - TP/Op			
Location: WELL 7,9,10	Sample So	urce: Street	POOLES VICLE
Collector/ID: JOSEPH 6AY	884/10	Phone No	o.: 4104467324
			20 - / 8:45m/pm Time Collected
Field Data: pH	Free CI:	1,4	Total CI:
Sample Type: Drinking water		rce (water)	□ Oil
□ Private □	Stream Dis	tribution (treated)	□ Solid
	Soil/Sediment ₩at	ter Treatment Plant POE	□ Other
□ Non-Community			
Specify Program: SDWA D N	TPDES RCRA	□ CWA □ CERCL	A Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
□ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N)	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monob☐ Sodium thiosulfate	asic
☐ EPA Method 552.2 (Haloacetic acids)	□ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
ロ EPA Method 8260 (VOCs) PFA5 53テノ	FIELPBLANK	TRIS BASE TRIS HCL	
E21001729001 Received: 01/06/2021 EPA 537.1 Organics 015-0002-TP10	E21001729002 Received: 01/06/2021 Organics		
emarks:			
ab Supervisor:			
•	(443) 681-3857	•Fax: (443) 681-4507	e Reported:/





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001729001 Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021
Field ID: 015-0002-TP10 Submitted Ry: loseph Gay

Field ID:	015-0002-TP10	Submitted By:	Joseph Gay		Date Analyzed:	01/08/2021
Contaminar	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	safluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OUd	IS)	2.0		ND
4,8-dioxa-3H	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohexa	adecafluoro-3-oxanonane-1-sulfonic	acid (9CI-PF3ONS	5)	2.0		ND
Hexafluorop	ropylene oxide dimer acid (HFPO-D	۹)		1.0		ND
N-ethyl perfl	uorooctanesulfonamidoacetic acid (I	N-EtFOSAA)		2.5		ND
N-methyl pe	rfluorooctanesulfonamidoacetic acid	(N-MeFOSAA)		3.0		ND
Perfluorobut	anesulfonic acid (PFBS)			1.0		1.71
Perfluorode	canoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	otanoic acid (PFHpA)			2.0		ND
Perfluorohe	kanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	kanoic acid (PFHxA)			1.0		1.81
Perfluoronor	nanoic acid (PFNA)			2.0		ND
Perfluorooct	anesulfonic acid (PFOS)			2.0		ND
Perfluorooct	anoic acid (PFOA)			1.0		3.69
Perfluorotetr	radecanoic acid (PFTDA)			1.0		ND
Perfluorotrid	ecanoic acid (PFTrDA)			2.0		ND
Perfluoround	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by: _____ Approval date: __01/15/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Telephone: (443) 681 - 3857 Fax: (443) 681 - 4507 Page 1 of 16 S:\EnviroFinal-Organics-PFAS.rp





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001729002 Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021

Field ID:	FB-015-0002-TP10	Submitted By:	Joseph Gay		Date Analyzed:	01/08/2021
Contamina	<u>ant</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeid	osafluoro-3-oxaundecane-1-s	ulfonic acid (11Cl-PF3OU	ldS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (AD	ONA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-s	sulfonic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (H	FPO-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoaceti	acid (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoace	tic acid (N-MeFOSAA)		3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluoroo	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/15/2021

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call 443-681-3857 and arrange for return or destruction.

Telephone: (443) 681 - 3857 Fax: (443) 681 - 4507 Page 2 of 16 S:\EnviroFinal-Organics-PFAS.rp

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Maryla MDH - Laboratories Adr Division of Environment DRGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARYI	ministration tal Chemistry L LABORATORY enue	Temperature I	AT 01/06/2/
	BORATORY ANALYSI Please write In	egibly		
Bottle No.: 095-0002-TP	ant/Site Name:	UN OF POOLES V	County:	MONT
Location: WEU3	Sample Sou	urce:Street	То	PADLESVILLE own or City
Collector/ID: VOSEPH GA	y 984/16	Phone No.	.: 410 9	467324
O 1 5 O O O O O O O O O O O O O O O O O		TP02 1/6/	eu .	7.00 am/am Time Collected
Field Data: pH 0 6.6	Free CI:	0.8	Total CI:	0,8
□ Private □	Stream Dist	rce (water) tribution (treated) ter Treatment Plant POE		1
Specify Program: SDWA D N	PDES RCRA	□ CWA □ CERCL	.A □ Co	onsumer Products
Test Requested	Field & Trip Blank	Preservative Used		Comment
☐ EPA Method 504.1 (EDB/DBCP) ☐ EPA Method 508 [Aroclors (SCAN	☐ Field Blank	☐ Sodium thiosulfate		
only) & Toxaphene]	LI FIELD DIATIK			
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank ☐ Field Blank	☐ Sodium thiosulfate ☐ HCL (6N)		
☐ EPA Method 525.2 (Pesticides)	D Fleid Blank	☐ Sodium sulfite	- H	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monob☐ Sodium thiosulfate	asic	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride ☐ Sodium thiosulfate		
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		- Socialii tiilosullate		
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate		
☐ EPA Method 8298 (VOCs) PFA 5	FIELD BLAWK	TRIS BASE TRISHEL		
E21001729003 Received: 01/06/2021 EPA 537.1 Organics 015-0002-TP3	E21001729004 Received: 01/06/2021 Organics Fi			
Remarks:				
Lab Supervisor: •Phone	: (443) 681-3857	•Fax: (443) 681-4507	e Reported:	





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001729003 Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021
Field ID: 015-0002-TP3 Submitted By: Joseph Gay

Field ID:	015-0002-TP3	Submitted By:	Joseph Gay		Date Analyzed:	01/08/2021
Contamina	<u>ınt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-sulfonio	acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO-D	A)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic acid	l (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		8.86
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		5.21
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		30.24
Perfluorohe	exanoic acid (PFHxA)			1.0		10.37
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		22.95
Perfluorood	ctanoic acid (PFOA)			1.0		15.29
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/15/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001729004 Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021
Field ID: FR-015-0002-TP3 Submitted Ry: Joseph Gay

Field ID:	FB-015-0002-TP3	Submitted By:	Joseph Gay		Date Analyzed:	01/08/2021
Contaminar	ı <u>t</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	safluoro-3-oxaundecane-1-sulfonic	acid (11CI-PF3OUd	IS)	2.0		ND
4,8-dioxa-3F	I-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohexa	adecafluoro-3-oxanonane-1-sulfonic	acid (9CI-PF3ONS	5)	2.0		ND
Hexafluorop	ropylene oxide dimer acid (HFPO-D	A)		1.0		ND
N-ethyl perfl	uorooctanesulfonamidoacetic acid (l	N-EtFOSAA)		2.5		ND
N-methyl pe	rfluorooctanesulfonamidoacetic acid	(N-MeFOSAA)		3.0		ND
Perfluorobut	anesulfonic acid (PFBS)			1.0		ND
Perfluoroded	canoic acid (PFDA)			1.0		ND
Perfluorodoo	decanoic acid (PFDoA)			2.0		ND
Perfluorohep	otanoic acid (PFHpA)			2.0		ND
Perfluorohex	canesulfonic acid (PFHxS)			1.0		ND
Perfluorohex	anoic acid (PFHxA)			1.0		ND
Perfluoronor	nanoic acid (PFNA)			2.0		ND
Perfluorooct	anesulfonic acid (PFOS)			2.0		ND
Perfluorooct	anoic acid (PFOA)			1.0		ND
Perfluorotetr	adecanoic acid (PFTDA)			1.0		ND
Perfluorotrid	ecanoic acid (PFTrDA)			2.0		ND
Perfluoround	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by: Approval date: 01/15/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Mary MDH - Laboratories A Division of Environme ORGANICS ANALYTICA 1770 Ashland A BALTIMORE, MARY	dministration ntal Chemistry AL LABORATORY venue	perature Blank: <u>()</u> °C <i>A</i> ての(06/こ)
L	ABORATORY ANALYS		
Bottle No.: 015-0002-TP1		• •	County:
Location: BRIGHTWELL	Sample So	ource:Street	POOLES VILLE
Collector/ID: JOSEPH GAG	1 884116	Phone No.:	4104467324
County System No.	/ 5- 00 0 2 PWSID	Plant No. Date Collected	2 Tantom / Time collected
Field Data: pHO 6.6	Free CI:	O.8 Total	ICI: 0,8
□ Private □	Stream Dis	urce (water) stribution (treated) ter Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: ☞ SDWA □ N	PDES RCRA	□ CWA □ CERCLA	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
□ EPA Method 8260 (VOCs) アデルタ 5 3 7. /	FIELD BLANK	TRIS BASE TRIS HOL	
E21001729005 Received: 01/06/2021 EPA 537.1 Organics 016-0002-TP12	E21001729006 Received: 01/06/2021 Organics	H ADUT HEDA TIBLIKAT	
-			
emarks:			
ab Supervisor:			
•	(443) 681-3857	— Date Repo ●Fax: (443) 681-4507	orted:/





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001729005 Method: EPA 537.1 - PFAS

Date Collected: Date Received: 01/06/2021 01/06/2021 Field ID: 015-0002-TP12 Submitted By: Joseph Cay

Field ID:	015-0002-TP12	Submitted By:	Joseph Gay		Date Analyzed:	01/08/2021
Contaminar	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	safluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OUc	IS)	2.0		ND
4,8-dioxa-3H	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	adecafluoro-3-oxanonane-1-sulfonic	acid (9CI-PF3ONS	5)	2.0		ND
Hexafluorop	ropylene oxide dimer acid (HFPO-D	4)		1.0		ND
N-ethyl perfl	uorooctanesulfonamidoacetic acid (I	N-EtFOSAA)		2.5		ND
N-methyl pe	rfluorooctanesulfonamidoacetic acid	(N-MeFOSAA)		3.0		ND
Perfluorobut	anesulfonic acid (PFBS)			1.0		3.74
Perfluorode	canoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	otanoic acid (PFHpA)			2.0		ND
Perfluorohe	kanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	xanoic acid (PFHxA)			1.0		2.28
Perfluorono	nanoic acid (PFNA)			2.0		ND
Perfluorooct	anesulfonic acid (PFOS)			2.0		ND
Perfluorooct	anoic acid (PFOA)			1.0		1.98
Perfluoroteti	radecanoic acid (PFTDA)			1.0		ND
Perfluorotrid	ecanoic acid (PFTrDA)			2.0		ND
Perfluoround	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approval date: 01/15/2021 Approved by:

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Telephone: (443) 681 -3857 Fax: (443) 681-4507 Page 5 of 16 S:\EnviroFinal-Organics-PFAS.rp

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001729006 Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021

Field ID: FR-015-0002-TP12 Submitted Ry: locenth Cay

Field ID:	FB-015-0002-TP12	Submitted By:	Joseph Gay		Date Analyzed:	01/08/2021
Contamina	<u>ınt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeid	osafluoro-3-oxaundecane-1-s	ulfonic acid (11Cl-PF3OU	ldS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (AD	ONA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-s	sulfonic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (H	FPO-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoaceti	acid (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoace	tic acid (N-MeFOSAA)		3.0		ND
Perfluorobi	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluoroo	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/15/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Mary MDH - Laboratories Ad Division of Environme DRGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	dministration ntal Chemistry AL LABORATORY venue	Derature Blank:°C A DI D6 2
LA	BORATORY ANALYS	GIS REQUEST FORM	
Bottle No.: <u>0/5 - 0002 - TP/3</u> Pla			
Location: STONEY SPRING	Sample So	Durce: Street	POOLES VILLE Town or City
Collector/ID: JOSEPH 6AY	8841 SG	Phone No.:	4114467324
County System No.	5 0 0 0 Z	Plani No. / 6 /205	1 Time Collected
Field Data: pH 06,9	Free CI:	0,9 Total	CI:/, O
□ Private □ □ Community □ Non-Community	Stream Dis	urce (water) stribution (treated) uter Treatment Plant POE	□ Oil □ Solid □ Other
Other	FDES LIKCKA	L CWA L CERCLA	□ Consumer Froducts
Test Requested	Field & Trip Blank	Preservative Used	Comment
□ EPA Method 504.1 (EDB/DBCP)	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	□ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids) ☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	□ Field Blank	☐ Ammonium chloride ☐ Sodium thiosulfate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
□ EPA Method 8260 (VOOs) PFAs 5 3 7 . /	FIELDBLANK	TRIS BASE TRIS HCL	
E21001729007 Received: 01/06/2021 EPA 537.1 Organics 015 0002-TP13	E21001729008 Received: 01/06/2021 Organics F		
emarks:ab Supervisor:		Date Rep	oorted:/

Phone: (443) 681-3857

•Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001729007 Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021
Field ID: 015-0002-TP13 Submitted Ry: loseph Gay

Field ID:	015-0002-TP13	Submitted By:	Joseph Gay		Date Analyzed:	01/08/2021
Contaminar	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	safluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OUd	IS)	2.0		ND
4,8-dioxa-3H	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohexa	adecafluoro-3-oxanonane-1-sulfonic	acid (9Cl-PF3ONS	5)	2.0		ND
Hexafluorop	ropylene oxide dimer acid (HFPO-D	A)		1.0		ND
N-ethyl perfl	uorooctanesulfonamidoacetic acid (N	N-EtFOSAA)		2.5		ND
N-methyl pe	rfluorooctanesulfonamidoacetic acid	(N-MeFOSAA)		3.0		ND
Perfluorobut	anesulfonic acid (PFBS)			1.0		1.79
Perfluorode	canoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	otanoic acid (PFHpA)			2.0		ND
Perfluorohe	kanesulfonic acid (PFHxS)			1.0		6.68
Perfluorohe	kanoic acid (PFHxA)			1.0		2.18
Perfluoronor	nanoic acid (PFNA)			2.0		ND
Perfluorooct	anesulfonic acid (PFOS)			2.0		5.09
Perfluorooct	anoic acid (PFOA)			1.0		3.39
Perfluorotetr	radecanoic acid (PFTDA)			1.0		ND
Perfluorotrid	ecanoic acid (PFTrDA)			2.0		ND
Perfluoround	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approved date: 01/15/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001729008 Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021
Field ID: FR-015-0002-TP13 Submitted Ry: Joseph Gay

Field ID:	FB-015-0002-TP13	Submitted By:	Joseph Gay		Date Analyzed:	01/08/2021
Contaminar	ı <u>t</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	safluoro-3-oxaundecane-1-sulfonic	acid (11CI-PF3OUc	IS)	2.0		ND
4,8-dioxa-3F	I-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohexa	adecafluoro-3-oxanonane-1-sulfonic	acid (9CI-PF3ONS	5)	2.0		ND
Hexafluorop	ropylene oxide dimer acid (HFPO-D	۹)		1.0		ND
N-ethyl perfl	uorooctanesulfonamidoacetic acid (l	N-EtFOSAA)		2.5		ND
N-methyl pe	rfluorooctanesulfonamidoacetic acid	(N-MeFOSAA)		3.0		ND
Perfluorobut	anesulfonic acid (PFBS)			1.0		ND
Perfluoroded	canoic acid (PFDA)			1.0		ND
Perfluorodoo	decanoic acid (PFDoA)			2.0		ND
Perfluorohep	otanoic acid (PFHpA)			2.0		ND
Perfluorohex	canesulfonic acid (PFHxS)			1.0		ND
Perfluorohex	anoic acid (PFHxA)			1.0		ND
Perfluoronor	nanoic acid (PFNA)			2.0		ND
Perfluorooct	anesulfonic acid (PFOS)			2.0		ND
Perfluorooct	anoic acid (PFOA)			1.0		ND
Perfluorotetr	adecanoic acid (PFTDA)			1.0		ND
Perfluorotrid	ecanoic acid (PFTrDA)			2.0		ND
Perfluoround	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approved date: 01/15/2021

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Telephone: (443) 681 - 3857 Fax: (443) 681 - 4507 Page 8 of 16 S:\EnviroFinal-Organics-PFAS.rp

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Maryla MDH - Laboratories Adm Division of Environments DRGANICS ANALYTICAI 1770 Ashland Aver BALTIMORE, MARYL	ninistration al Chemistry L LABORATORY nue	Temp	erature I	AT01/06/2/
LA	BORATORY ANALYSI	S REQUEST FORM	ī		
24	Please write le	egibly			
	ant/Site Name: TOWN		MEC	ounty:	MONT
Location: WELLS	Sample Sou	Irce:Street		Po	OCKESVILLE win or City
Collector/ID: VOSEPH GAS	884116	Pho	ne No.:	1104	467324
County System No.		Plant No. Date (6 /20 5	V	Time Collected
Field Data: pH	Free CI:	1,0	Total	CI:	1,5
Sample Type: □ Drinking water □	Landfill □ Sour	rce (water)		□ Oil	,
		ribution (treated)			
	Soil/Sediment	er Treatment Plant PC	E	□ Othe	r
□ Non-Community					
Specify Program: OSDWA DOTHER	PDES RCRA	□ CWA □ CE	RCLA	□ Co	onsumer Products
Test Requested	Field & Trip Blank	Preservative Us	ed		Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate			
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate			
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate			
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite			
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate n☐ Sodium thiosulfate	onobasic		
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride			
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate			
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic ☐ Sodium thiosulfate	acid		<u>s</u>
☐ EPA Method 8200 (VOOs) PFAS 537./	FIELD BLANK	TRIS BASE TRIS HEL			
E21001729009 Received: 01/06/2021 EPA 537.1 Organics 015-0002-TP05	E21001729010 Received: 01/06/2021 Organics	EPA 537.1 B-015-0002-TI			
	T.				27
Remarks:					
Lab Supervisor:		=	Date Re	ported:	/
•Phone	: (443) 681-3857	•Fax: (443) 681-45	507		





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001729009 Method: EPA 537.1 - PFAS

Date Collected: Date Received: 01/06/2021 01/06/2021 Field ID: 015-0002-TP05 Submitted By: Joseph Cay

Field ID:	015-0002-TP05	Submitted By:	Joseph Gay		Date Analyzed:	01/08/2021
Contaminar	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	safluoro-3-oxaundecane-1-sulfonic	acid (11CI-PF3OUc	IS)	2.0		ND
4,8-dioxa-3l	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	adecafluoro-3-oxanonane-1-sulfonic	acid (9CI-PF3ONS	5)	2.0		ND
Hexafluorop	ropylene oxide dimer acid (HFPO-D	۹)		1.0		ND
N-ethyl perf	luorooctanesulfonamidoacetic acid (I	N-EtFOSAA)		2.5		ND
N-methyl pe	rfluorooctanesulfonamidoacetic acid	(N-MeFOSAA)		3.0		ND
Perfluorobut	tanesulfonic acid (PFBS)			1.0		2.53
Perfluorode	canoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	ptanoic acid (PFHpA)			2.0		ND
Perfluorohe	xanesulfonic acid (PFHxS)			1.0		1.16
Perfluorohe	xanoic acid (PFHxA)			1.0		2.56
Perfluorono	nanoic acid (PFNA)			2.0		ND
Perfluorooct	anesulfonic acid (PFOS)			2.0		3.64
Perfluorooct	anoic acid (PFOA)			1.0		3.60
Perfluorotet	radecanoic acid (PFTDA)			1.0		ND
Perfluorotrio	lecanoic acid (PFTrDA)			2.0		ND
Perfluoroun	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approval date: 01/15/2021 Approved by:

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001729010 Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021
Field ID: FR-015-0002-TP05 Submitted Ry: Joseph Gay

Field ID:	FB-015-0002-TP05	Submitted By:	Joseph Gay		Date Analyzed:	01/08/2021
Contaminar	ı <u>t</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	safluoro-3-oxaundecane-1-sulfonic	acid (11CI-PF3OUd	IS)	2.0		ND
4,8-dioxa-3F	I-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohexa	adecafluoro-3-oxanonane-1-sulfonic	acid (9CI-PF3ONS	5)	2.0		ND
Hexafluorop	ropylene oxide dimer acid (HFPO-D	A)		1.0		ND
N-ethyl perfl	uorooctanesulfonamidoacetic acid (l	N-EtFOSAA)		2.5		ND
N-methyl pe	rfluorooctanesulfonamidoacetic acid	(N-MeFOSAA)		3.0		ND
Perfluorobut	anesulfonic acid (PFBS)			1.0		ND
Perfluoroded	canoic acid (PFDA)			1.0		ND
Perfluorodoo	decanoic acid (PFDoA)			2.0		ND
Perfluorohep	otanoic acid (PFHpA)			2.0		ND
Perfluorohex	canesulfonic acid (PFHxS)			1.0		ND
Perfluorohex	anoic acid (PFHxA)			1.0		ND
Perfluoronor	nanoic acid (PFNA)			2.0		ND
Perfluorooct	anesulfonic acid (PFOS)			2.0		ND
Perfluorooct	anoic acid (PFOA)			1.0		ND
Perfluorotetr	adecanoic acid (PFTDA)			1.0		ND
Perfluorotrid	ecanoic acid (PFTrDA)			2.0		ND
Perfluoround	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/15/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Mary MDH - Laboratories Ad Division of Environmen ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	lministration ntal Chemistry AL LABORATORY renue	perature Blank: U °C AT 01 06 L
L	ABORATORY ANALYS Please write I		
Bottle No.: 0/5 - 5002 - TP & P	ant/Site Name: TOWA	JOF POOLESVILL	Ecounty: MONT
Location: WEVL 6	Sample So	Street	POOLES VILLE Town or City
Collector/ID: 05EPH GAS	884/16	Phone No.:	4104467324
County System No.	/5-0002 PWSID	Plant No. Date Collected	4 915 (am/pm
Field Data: pH	Free CI:		ci:/,2
□ Private □	Stream	rrce (water) tribution (treated) ter Treatment Plant POE	□ Oil □ Solid
Specify Program: SDWA D N	PDES RCRA	□ CWA □ CERCLA	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 508 [Aroclors (SCAN only)' & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
 □ EPA Method 8270 (Semi-Volatiles) □ Pesticides □ Aroclors 		☐ Sodium thiosulfate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
□ EPA Method 9206 (VOGs) - PFA ₅ 537.1	FIELDBLANK	TRIS BASE TRIS HOI	
E21001729011 Received: 01/06/2021 EPA 537.1 Organics 015-0002-TP06	E21001729012 Received: 01/06/2021 8 Organics FB		
emarks:			*
ab Supervisor:	(443) 681-3857	Date Rep	orted:/





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001729011 Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021
Field ID: 015-0002-TP06 Submitted By: Joseph Gay

Field ID:	015-0002-TP06	Submitted By:	Joseph Gay		Date Analyzed:	01/13/2021
Contamina	<u>ınt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-sulfonio	acid (9CI-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO-D	A)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic acid	l (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		2.57
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		2.49
Perfluorohe	exanoic acid (PFHxA)			1.0		2.75
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		4.44
Perfluorood	ctanoic acid (PFOA)			1.0		3.97
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/15/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001729012 Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021
Field ID: FB-015-0002-TP06 Submitted By: Joseph Gay

ContaminantRLMCLResult1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)2.0ND4,8-dioxa-3H-perfluorononanoic acid (ADONA)1.0ND9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)2.0ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND
9 chlorobevadecafluoro 3 ovanonano 1 sulfonic acid (QCI PE3ONS)
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND
Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND
Perfluorobutanesulfonic acid (PFBS) 1.0 ND
Perfluorodecanoic acid (PFDA) 1.0 ND
Perfluorododecanoic acid (PFDoA) 2.0 ND
Perfluoroheptanoic acid (PFHpA) 2.0 ND
Perfluorohexanesulfonic acid (PFHxS) 1.0 ND
Perfluorohexanoic acid (PFHxA) 1.0 ND
Perfluorononanoic acid (PFNA) 2.0 ND
Perfluorooctanesulfonic acid (PFOS) 2.0 ND
Perfluorooctanoic acid (PFOA) 1.0 ND
Perfluorotetradecanoic acid (PFTDA) 1.0 ND
Perfluorotridecanoic acid (PFTrDA) 2.0 ND
Perfluoroundecanoic acid (PFUnDA) 1.0 ND

Comments:

Approved by: Approval date: 01/15/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Maryla	nd Temp	erature Blank: O°C
	MDH - Laboratories Administration Division of Environmental Chemistry		
ORGANICS ANALYTICAL LABORATORY			
)	1770 Ashland Aver BALTIMORE, MARYL		
LAI	BORATORY ANALYSI Please write le		
Bottle No.: 015-0002-TP08	Touler	1 = POULESVILL	E MONT
Bottle No.: 013 - 000x Pla	nt/Site Name: 1 0000	OF FOULEST	County: 777 070
Location: WELL 8	Sample Sou	arce:Street	POOLES VILLE Town or City
Collector/ID: JOSEPH GAS	884116	Phone No.:	4104467324
County System No.	50002 PWSID	Plant No. Date Collected	/ O // C Ampin Time Collected
Field Data: pH 06.9	Free CI:	1,2 Total	CI: 1,2
Sample Type: D-Drinking water	Landfill 🗆 Sou	rce (water)	□ Oil
□ Private □		ribution (treated)	□ Solid
☑ Community □	Soil/Sediment Wat	er Treatment Plant POE	□ Other
□ Non-Community			
G M D GOWA FINI	PDES □ RCRA	□ CWA □ CERCLA	☐ Consumer Products
Speed, 110g. and	PDES □ RCRA	L CWA L CERCLA	□ Consumer Froducts
☐ Other Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN	☐ Field Blank	☐ Sodium thiosulfate	
only) & Toxaphene]	- 1 loid Blarik	D Sodiam amountain	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate☐	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride ☐ Sodium thiosulfate	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		□ Sodium mosuliale	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method 8266 (VOGs) — PFAS 5 37.1	FIELDBUANK	TRIS BASE TRIS HEL	
E21001729013 Received: 01/06/2021 EPA 537.1 Organics 015-0002-TP08	E21001729014 Received: 01/06/202 Organics		
Remarks:			ported:/

Phone: (443) 681-3857

Fax: (443) 681-4507





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001729013 Method: EPA 537.1 - PFAS

Date Collected: Date Received: 01/06/2021 01/06/2021 Field ID: Submitted By: 015-0002-TP08 Joseph Gay

Field ID:	015-0002-TP08	Submitted By:	Joseph Gay		Date Analyzed:	01/13/2021
Contamina	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfonic	acid (11CI-PF3OU	dS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	adecafluoro-3-oxanonane-1-sulfonio	c acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	oropylene oxide dimer acid (HFPO-D	DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid	(N-EtFOSAA)		2.5		ND
N-methyl pe	erfluorooctanesulfonamidoacetic aci	d (N-MeFOSAA)		3.0		ND
Perfluorobu	tanesulfonic acid (PFBS)			1.0		4.00
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	ptanoic acid (PFHpA)			2.0		4.04
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		1.57
Perfluorohe	exanoic acid (PFHxA)			1.0		6.24
Perfluorono	nanoic acid (PFNA)			2.0		ND
Perfluorood	tanesulfonic acid (PFOS)			2.0		6.02
Perfluorood	tanoic acid (PFOA)			1.0		5.35
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approval date: 01/15/2021 Approved by:

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Telephone: (443) 681 -3857 Fax: (443) 681-4507 Page 13 of 16 S:\EnviroFinal-Organics-PFAS.rp

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001729014 Method: EPA 537.1 - PFAS

Date Collected: Date Received: 01/06/2021 01/06/2021 Field ID: Submitted By: FB-015-0002-TP08 Joseph Gay

Field ID:	FB-015-0002-TP08	Submitted By:	Joseph Gay		Date Analyzed:	01/13/2021
Contamina	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfon	c acid (11Cl-PF3OU	ldS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADONA	.)		1.0		ND
9-chlorohex	kadecafluoro-3-oxanonane-1-sulfor	nic acid (9CI-PF3ON	S)	2.0		ND
Hexafluoro	oropylene oxide dimer acid (HFPO	-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid	d (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic a	cid (N-MeFOSAA)		3.0		ND
Perfluorobu	itanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	nanoic acid (PFNA)			2.0		ND
Perfluorood	etanesulfonic acid (PFOS)			2.0		ND
Perfluorood	tanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approval date: 01/15/2021 Approved by:

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Telephone: (443) 681 -3857 Fax: (443) 681-4507 Page 14 of 16 S:\EnviroFinal-Organics-PFAS.rp

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Mary MDH - Laboratories Ad Division of Environmer ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	Iministration ntal Chemistry AL LABORATORY renue	perature Blank: 0 °C AT 1 06 12 1
L	ABORATORY ANALYS		
Bottle No.: 015-0002-TP11 PI	ant/Site Name: TO W/	N OF POOLE SVILL	Eounty: MONT
Location: WELL 1/	Sample So	urce:Street	POOLESVILLE Town or City
Collector/ID: JOSEPH 6Ay	884/16	Phone No.:	4104467324
County System No.	150002 PWSID	7 P // / / 6 /20 - Plant No. Date Collected	2 / / Signature Time Collected
Field Data: pH 0.770	Free CI:		ıcı:1,9
Private Community Non-Community	Stream Dist	trice (water) tribution (treated) ter Treatment Plant POE	☐ Oil ☐ Solid ☐ Other
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	Comment
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
□ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
□ EPA Method 8260 (VOCsT PFA 5 537.1	FIELD BLANK	TRIS BASE TRIS HCL	
E21001729015 Received: 01/06/2021 EPA 537.1 Organics 015-002-TP11	E21001729016 Received: 01/06/2021 Organics FE		
emarks:			
ab Supervisor:			oorted:/
•Phone:	(443) 681-3857	•Fax: (443) 681-4507	

ORIGINAL - LABORATORY





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001729015 Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021
Field ID: 015-002-TP11 Submitted Ry: loseph Gay

Field ID:	015-002-TP11	Submitted By:	Joseph Gay		Date Analyzed:	01/13/2021
Contaminar	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	safluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OUd	IS)	2.0		ND
4,8-dioxa-3H	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	adecafluoro-3-oxanonane-1-sulfonic	acid (9CI-PF3ONS	5)	2.0		ND
Hexafluorop	ropylene oxide dimer acid (HFPO-D	۹)		1.0		ND
N-ethyl perfl	uorooctanesulfonamidoacetic acid (I	N-EtFOSAA)		2.5		ND
N-methyl pe	rfluorooctanesulfonamidoacetic acid	(N-MeFOSAA)		3.0		ND
Perfluorobut	tanesulfonic acid (PFBS)			1.0		ND
Perfluorode	canoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	otanoic acid (PFHpA)			2.0		ND
Perfluorohe	xanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	xanoic acid (PFHxA)			1.0		ND
Perfluorono	nanoic acid (PFNA)			2.0		ND
Perfluorooct	anesulfonic acid (PFOS)			2.0		ND
Perfluorooct	anoic acid (PFOA)			1.0		ND
Perfluoroteti	radecanoic acid (PFTDA)			1.0		ND
Perfluorotrid	lecanoic acid (PFTrDA)			2.0		ND
Perfluoround	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/15/2021

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Telephone: (443) 681 - 3857 Fax: (443) 681 - 4507 Page 15 of 16 S:\EnviroFinal-Organics-PFAS.rp

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001729016 Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021
Field ID: FR-015-002-TP11 Submitted Ry: loseph Gay

Field ID:	FB-015-002-TP11	Submitted By:	Joseph Gay		Date Analyzed:	01/13/2021
Contaminar	<u>ıt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	safluoro-3-oxaundecane-1-sulfonic	acid (11CI-PF3OUd	IS)	2.0		ND
4,8-dioxa-3F	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohexa	adecafluoro-3-oxanonane-1-sulfonic	acid (9CI-PF3ONS	5)	2.0		ND
Hexafluorop	ropylene oxide dimer acid (HFPO-D	A)		1.0		ND
N-ethyl perfl	uorooctanesulfonamidoacetic acid (l	N-EtFOSAA)		2.5		ND
N-methyl pe	rfluorooctanesulfonamidoacetic acid	(N-MeFOSAA)		3.0		ND
Perfluorobut	anesulfonic acid (PFBS)			1.0		ND
Perfluoroded	canoic acid (PFDA)			1.0		ND
Perfluorodoo	decanoic acid (PFDoA)			2.0		ND
Perfluorohep	otanoic acid (PFHpA)			2.0		ND
Perfluorohex	canesulfonic acid (PFHxS)			1.0		ND
Perfluorohex	ranoic acid (PFHxA)			1.0		ND
Perfluoronor	nanoic acid (PFNA)			2.0		ND
Perfluorooct	anesulfonic acid (PFOS)			2.0		ND
Perfluorooct	anoic acid (PFOA)			1.0		ND
Perfluorotetr	adecanoic acid (PFTDA)			1.0		ND
Perfluorotrid	ecanoic acid (PFTrDA)			2.0		ND
Perfluoround	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/15/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Maryla		erature Blank:C
	MDH - Laboratories Adn Division of Environment	al Chemistry	V-1/1/21
	ORGANICS ANALYTICAI 1770 Ashland Ave BALTIMORE, MARYI	nue	18/4
LA	BORATORY ANALYSI	S REQUEST FORM	
	Please write le	•	
Bottle No.: 611-6002-TAU Pla	ant/Site Name: 8 60	omington c	County: Garrett
Location: 106C South	Sample Sou	arce: New WTP IN	702 \ Town or City
Collector/ID: Holf CSUJTH	r	Phone No.:	4104467432
County System No.	1 (0 0 0 2)	Plant No. Date Collected	Time Collected
Field Data: pH 7.2	Free CI: <u>A</u>	Total	CI:_2, \
Sample Type: Drinking water	Landfill Sour	rce (water)	□ Oil
		ribution (treated)	□ Solid
□ Community □ □ Non-Community	Soil/Sediment	er Treatment Plant POE	□ Other
□ Non-Community			
Specify Program: USDWA D N.	PDES RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	_
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonlum chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
EPA Method 524.2 (Volatiles) THMs	Field Blank	□ 1:1 HCL + Ascorbic acid	
PFAS 531.7	BLUE	☐ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs)			
E21001749001 Received: 01/08/2021 EPA 537.1 Organics 0110002TP01	E21001749002 Received: 01/08/2021 Organics		
a.			
		11	
Remarks:			
Lab Supervisor:		Date Re	ported:/
•Phone:	(443) 681-3857	•Fax: (443) 681-4507	

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIV





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001749001 Method: EPA 537.1 - PFAS

Date Received: 01/08/2021 Date Collected: 01/07/2021

Field ID:	0110002TP01	Submitted By:	HOLT		Date Analyzed:	01/13/2021
Contamina	<u>ınt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfonio	acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-sulfoni	c acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO-I	DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid	(N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic aci	d (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by: Approval date: 01/15/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001749002 Method: EPA 537.1 - PFAS

Date Received: 01/08/2021 Date Collected: 01/07/2021

Field ID:	0110002TP01FB	Submitted By:	HOLT		Date Analyzed:	01/13/2021
Contamina	<u>ınt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfoni	c acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (ADONA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-sulfon	ic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO-	·DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid	(N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic ac	cid (N-MeFOSAA)		3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)			2.0		ND
Perfluoroo	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/15/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

	State of Maryl MDH - Laboratories Ad Division of Environmen ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	ministration tal Chemistry L LABORATORY enue LAND 21205	perature Blank: 18/2
	ABORATORY ANALYS Please write I	egibly	
Bottle No.: 011 - 000 8- 701 PI	ant/Site Name:	land - broadtond	County: Carrett
Location: POEC WY	Sample So	urce:Street	Town or City
Collector/ID: Holf L3237H		Phone No.:	4104467482
County System No.	110008	Plant No. 1 /7-/20 Z	7 OD Time Collected
Field Data: pH 6,8	Free CI:	Total	CI:_Li
Private □ Community □ Non-Community	Stream Dis	rce (water) tribution (treated) er Treatment Plant POE	□ Oil □ Solid □ Other
Other	Field o Take Diesel	T Duncamarativa Hand	Commant
Test Requested ☐ EPA Method 504.1 (EDB/DBCP)	Field & Trip Blank	Preservative Used ☐ Sodium thiosulfate	Comment
☐ EPA Method 508 [Aroclors (SCAN	☐ Field Blank	☐ Sodium thiosulfate	
only) & Toxaphene]	LI FIEID BIAIIK	- Socialit tillosullate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	□ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
EPA Method 524.2 (Volatiles) VOCS	□ Field Blank □ Trip Blank BLUC	☐ 1:1 HCL + Ascorbic acid☐ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs)			
E21001749003 Received: 01/08/2021 EPA 537.1 Organics 0110008TP01	E210017490 Received: 01/08/2	04	
,			
Remarks:			4/10/

Phone: (443) 681-3857

Fax: (443) 681-4507

Date Reported: ____/___/_

Lab Supervisor: ___





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001749003 Method: EPA 537.1 - PFAS

Date Received: 01/08/2021 Date Collected: 01/07/2021

Field ID: 0110008TP01 Submitted Ry: HOLT

Field ID:	0110008TP01	Submitted By:	HOLT		Date Analyzed:	01/13/2021
Contamina	<u>ınt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfo	nic acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADON	A)		1.0		ND
9-chlorohex	xadecafluoro-3-oxanonane-1-sulfo	onic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFP0	D-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic ac	id (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic	acid (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/15/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001749004 Method: EPA 537.1 - PFAS

Date Received: 01/08/2021 Date Collected: 01/07/2021

Field ID:	0110008TP01FB	Submitted By:	HOLT		Date Analyzed:	01/13/2021
Contamina	ant .			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	cosafluoro-3-oxaundecane-1-sulfoni	c acid (11CI-PF3OU	dS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (ADONA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-sulfor	nic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO	-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid	I (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic ad	cid (N-MeFOSAA)		3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		ND
Perfluorote	etradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/15/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Maryl MDH - Laboratories Adv	and Temp	perature Blank:°C
	Division of Environmen ORGANICS ANALYTICA	tal Chemistry L LABORATORY	0/18/21
-	1770 Ashland Ave BALTIMORE, MARY		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
LA	ABORATORY ANALYS Please write I		
Bottle No.: 011-000 (-TP) PI	ant/Site Name: Accid	ent (County: Garrett
Location: PORC South St. W	Sample Son	urce:Street	Town or City
Collector/ID: 4014 63277	+	Phone No.:	4104467432
County System No.	PWSID	O 1 1 / 7/20 2 Plant No. Date Collected	Time Collected
Field Data: pH 67	Free CI:	Total	cı:\
Private Decommunity Non-Community	Stream Dist	rce (water) tribution (treated) er Treatment Plant POE	□ Oil □ Solid □ Other
□ Other			
Test Requested	Field & Trlp Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	=
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
V2 EPA Method 524.2 (Volatiles) IS VOC8 ☐ THMs PPA 531.2	Field Blank ☐ Trip Blank BLUE LABEL	□ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs)		950	
E21001749005 Received: 01/08/2021 EPA 537.1 Organics 0110001TP01	E21001749006 Received: 01/08/2021 Organics		
Remarks:			
Lab Supervisor:		Date Rep	orted:/
•Phone:	(443) 681-3857		

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

SAMPLE TESTEE AS RECEIVED





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001749005 Method: EPA 537.1 - PFAS

 Date Received:
 01/08/2021
 Date Collected:
 01/07/2021

 Field ID:
 01/0001TP01
 Submitted Ry:
 HOLT

Field ID:	0110001TP01	Submitted By:	HOLT		Date Analyzed:	01/13/2021
Contamina	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	osafluoro-3-oxaundecane-1-sulfonic	acid (11CI-PF3OUd	IS)	2.0		ND
4,8-dioxa-3l	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	adecafluoro-3-oxanonane-1-sulfonic	acid (9CI-PF3ONS	5)	2.0		ND
Hexafluorop	propylene oxide dimer acid (HFPO-D	۹)		1.0		ND
N-ethyl perf	luorooctanesulfonamidoacetic acid (N	N-EtFOSAA)		2.5		ND
N-methyl pe	erfluorooctanesulfonamidoacetic acid	(N-MeFOSAA)		3.0		ND
Perfluorobu	tanesulfonic acid (PFBS)			1.0		ND
Perfluorode	canoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	ptanoic acid (PFHpA)			2.0		ND
Perfluorohe	xanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	xanoic acid (PFHxA)			1.0		ND
Perfluorono	nanoic acid (PFNA)			2.0		ND
Perfluorooc	tanesulfonic acid (PFOS)			2.0		ND
Perfluorooc	tanoic acid (PFOA)			1.0		1.33
Perfluorotet	radecanoic acid (PFTDA)			1.0		ND
Perfluorotrio	decanoic acid (PFTrDA)			2.0		ND
Perfluoroun	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/15/2021

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call 443-681-3857 and arrange for return or destruction.

Telephone: (443) 681 - 3857 Fax: (443) 681 - 4507 Page 5 of 6 S:\EnviroFinal-Organics-PFAS.rp

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





01/12/0001

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001749006 Method: EPA 537.1 - PFAS

Date Received: 01/08/2021 Date Collected: 01/07/2021

Field ID: 01/0001TP01FR Submitted Ry: HOLT

Field ID:	0110001TP01FB	Submitted By:	HOLT		Date Analyzed:	01/13/2021
Contamina	ant .			<u>RL</u>	<u>MCL</u>	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-sulfo	nic acid (11CI-PF3OL	JdS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (ADON	IA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-sulf	onic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFP	O-DA)		1.0		ND
N-ethyl per	rfluorooctanesulfonamidoacetic ad	cid (N-EtFOSAA)		2.5		ND
N-methyl p	perfluorooctanesulfonamidoacetic	acid (N-MeFOSAA)		3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorod	ecanoic acid (PFDA)			1.0		ND
Perfluorod	odecanoic acid (PFDoA)			2.0		ND
Perfluoroh	eptanoic acid (PFHpA)			2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)			1.0		ND
Perfluoroh	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)			2.0		ND
Perfluoroo	ctanoic acid (PFOA)			1.0		ND
Perfluorote	etradecanoic acid (PFTDA)			1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/15/2021

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call 443-681-3857 and arrange for return or destruction.

Telephone: (443) 681 - 3857 Fax: (443) 681 - 4507 Page 6 of 6 S:\EnviroFinal-Organics-PFAS.rp

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

12/11/2

Temperature Blank: (.O

LABORATORY ANALYSIS REQUEST FORM

egibly
write
Please

Bottle No.: 006.0017-TOIW & Plant/Site Name:		Worke fred Villey Well a	County: Callell
Location: Plant	Sample Source:	irce: Old New Windsor MK	Westa, aster Town or City
Collector/ID: Shily Lowmin	759±00	SL Phone No.:	1882-166-014
00 00 1 7 00 0 0 0 0 0 0 0	F 1009	7	90 S am bm Time Coffected
ta: pH	ree CI:		2.3
Sample Type: Drinking water	□ Landfill □ Sow □ Stream □ Dist □ Soil/Sediment	□ Source (water) □ Distribution (treated) ☑ Water Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: SDWA DNI	□ NPDES □ RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
24.2 (Vo	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method 8288 (VOC9) 5'37.1	IN FIELD Blank	E Tizma	
E21001756001 Received: 01/11/2021 EPA 537.1 Organics 006-0017-TP01	E21001756002 Received: 01/11/2021 EPA 537 Organics FB-006-00	EPA 53	
		àl	
Remarks: Well a Runing	at time of Sa	ny le	
Lab Supervisor:		— Date Reported:	ported:
• Phone	Phone: (443) 681-3857	•Fax: (443) 681-4507	

ORIGINAL - LABORATORY





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001756001 Method: EPA 537.1 - PFAS

Date Received: 01/11/2021 Date Collected: 01/11/2021

Field ID: 006-0017-TP01 Submitted By: Lowren

Field ID:	006-0017-TP01	Submitted By:	Lowman		Date Analyzed	: 01/14/2021	
Contamina	<u>ınt</u>			<u>RL</u>	<u>MCL</u>	Result	
1-chloroeic	osafluoro-3-oxaundecane-1-	sulfonic acid (11Cl-PF3OU	dS)	2.0		ND	
4,8-dioxa-3	H-perfluorononanoic acid (A	DONA)		1.0		ND	
9-chlorohe	xadecafluoro-3-oxanonane-1	-sulfonic acid (9CI-PF3ON	S)	2.0		ND	
Hexafluoro	propylene oxide dimer acid (HFPO-DA)		1.0		ND	
N-ethyl per	fluorooctanesulfonamidoace	tic acid (N-EtFOSAA)		2.5		ND	
N-methyl p	erfluorooctanesulfonamidoad	etic acid (N-MeFOSAA)		3.0		ND	
Perfluorobu	utanesulfonic acid (PFBS)			1.0		3.80	
Perfluorode	ecanoic acid (PFDA)			1.0		ND	
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND	
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND	
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		1.01	
Perfluorohe	exanoic acid (PFHxA)			1.0		ND	
Perfluorono	onanoic acid (PFNA)			2.0		ND	
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND	
Perfluorood	ctanoic acid (PFOA)			1.0		1.45	
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND	
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND	
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND	

Comments:

Approved by:

Approval date: 01/19/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001756002 Method: EPA 537.1 - PFAS

 Date Received:
 01/11/2021
 Date Collected:
 01/11/2021

	Lowinan		Date Analyzed:	01/14/2021
		<u>RL</u>	<u>MCL</u>	Result
1CI-PF3OU	ldS)	2.0		ND
		1.0		ND
9CI-PF3ON	S)	2.0		ND
		1.0		ND
OSAA)		2.5		ND
eFOSAA)		3.0		ND
		1.0		ND
		1.0		ND
		2.0		ND
		2.0		ND
		1.0		ND
		1.0		ND
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		1.0		ND
		1.0		ND
		2.0		ND
		1.0		ND
	1CI-PF3OU 9CI-PF3ON OSAA)	•	RL 1CI-PF3OUdS) 2.0 1.0 9CI-PF3ONS) 2.0 1.0 DSAA) 2.5 eFOSAA) 3.0 1.0 2.0 2.0 2.0 1.0 1.0 1.0 2.0 2.0 1.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2	RL MCL 1CI-PF3OUdS) 2.0 1.0 9CI-PF3ONS) 2.0 1.0 DSAA) 2.5 eFOSAA) 3.0 1.0 2.0 2.0 2.0 1.0 1.0 1.0 1.0 2.0 2.0 1.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2

Comments:

Approved by:

Approval date: 01/19/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.6° c $1/1/12^{\circ}$ R

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1007 SICO - NO	() () () () () () () () () ()	To be 1	11000
1011-1110	Plant/Site Name:	TAN TO COULT	County:
Location: Plant	Sample Source:	ource: 2305 Old Westwinster /K	M Finhshing Town or Oily
Collector/ID: Shuw bowmin	007656	Phone No.:	4881-746-014
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0 5	060215	0 [1 1 120 3	1 950
County System No.	PWSID	Plant No. Date Collected	Time Collected
Field Data: pH	Free CI:	l, l Total CI:	CI: /. A
Sample Type: © Drinking water	□ Landfill □ Sov	□ Source (water)	□ Oil
unity ommunity	diment	E Water Treatment Plant POE	□ Other
Specify Program: SDWA N	□ NPDES □ RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N)	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
E EPA Method 5260 (VOCs) 537 .1	B Field Blunk	E Tirms	
E21001756003 Received: 01/11/2021 EPA 537.1 Organics 006-0215-TP01	E21001756004 Received: 01/11/2021 Organics	104 2021 EPA 537.1 FB-006-0215-T₹	
Remarks:			
Lab Supervisor:		Date Reported:	ported:
Phone	•Phone: (443) 681-3857	•Fax: (443) 681-4507	

MDH98 (02/18)

ORIGINAL - LABORATORY





01/14/0001

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001756003 Method: EPA 537.1 - PFAS

Date Received: 01/11/2021 Date Collected: 01/11/2021

Field ID:	006-0215-TP01	Submitted By:	Lowman		Date Analyzed:	01/14/2021
Contamina	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfonio	acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADONA)	1		1.0		ND
9-chlorohex	kadecafluoro-3-oxanonane-1-sulfon	ic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO-	DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid	(N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic ac	id (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		2.93
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		2.00
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		1.48
Perfluorohe	exanoic acid (PFHxA)			1.0		3.64
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	etanoic acid (PFOA)			1.0		4.95
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/19/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





01/14/0001

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001756004 Method: EPA 537.1 - PFAS

Date Received: 01/11/2021 Date Collected: 01/11/2021

Field ID:	FB-006-0215-TP01	Submitted By:	Lowman		Date Analyzed:	01/14/2021
Contamin	ant_			<u>RL</u>	<u>MCL</u>	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-	sulfonic acid (11CI-PF3OL	ldS)	2.0		ND
4,8-dioxa-	3H-perfluorononanoic acid (Al	DONA)		1.0		ND
9-chlorohe	exadecafluoro-3-oxanonane-1	-sulfonic acid (9CI-PF3ON	S)	2.0		ND
Hexafluoro	ppropylene oxide dimer acid (I	HFPO-DA)		1.0		ND
N-ethyl pe	rfluorooctanesulfonamidoacet	ic acid (N-EtFOSAA)		2.5		ND
N-methyl p	perfluorooctanesulfonamidoac	etic acid (N-MeFOSAA)		3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorod	ecanoic acid (PFDA)			1.0		ND
Perfluorod	odecanoic acid (PFDoA)			2.0		ND
Perfluoroh	eptanoic acid (PFHpA)			2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)			1.0		ND
Perfluoroh	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)			2.0		ND
Perfluoroo	ctanoic acid (PFOA)			1.0		ND
Perfluorote	etradecanoic acid (PFTDA)			1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/19/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: / . O

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Bottle No.: 60 - 60 1 - 700 Pla	Plant/Site Name: F205	FROSTBURGE CO	County: Allegand
Location: 904 @ WT	Sample Source:	urce: Street	Town or City
Collector/ID: Holf 63237H		Phone No.:	410m1C+435
			1307) am pm
Field Data: pH 3.0	Free CI: 0	Total CI:	I. 1.2
Sample Type: Deprinking water	□ Landfill □ Sou □ Sou □ Stream □ Dis □ Soil/Sediment □ Wat	□ Source (water) □ Distribution (treated) □ Water Treatment Plant POE	□ Oil □ Solid
Specify Program: GSDWA DNI	□ NPDES □ RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles)☐ Pesticides☐ Aroclors		☐ Sodium thiosulfate	
24.2 (Vo	Trip Blank	CT:1 HCL TC(2 MA) □ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs)			
E21001768001 Received: 01/12/2021 EPA 537_1 Organics 00100117F01	E21001768002 Received: 01/12/2021 EPA 537.1 Organics	002 72021 EPA 537.1 0010011TP01F	
Remarks:			
Lab Supervisor:		Date Reported:	orted:
• Phone	•Phone: (443) 681-3857	•Fax: (443) 681-4507	
	ORIGINAL - I	ORIGINAL - LABORATORY SAMPLE TEST	SAMPLE TESTED AS RECEIVED





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001768001 Method: EPA 537.1 - PFAS

Date Received: 01/12/2021 Date Collected: 01/11/2021

Field ID:	0010011TP01	Submitted By:	Holt		Date Analyzed:	01/14/2021
Contamina	ant			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfon	ic acid (11Cl-PF3OL	ldS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (ADONA	۸)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-sulfor	nic acid (9CI-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO	-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid	d (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic a	cid (N-MeFOSAA)		3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)			2.0		ND
Perfluoroo	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/19/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





01/14/0001

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001768002 Method: EPA 537.1 - PFAS

Date Received: 01/12/2021 Date Collected: 01/11/2021
Field ID: 0010011TP01FR Submitted Ry: Holt

Field ID:	0010011TP01FB	Submitted By: Holt		Date Analyzed:	01/14/2021
Contamir	<u>nant</u>		<u>RL</u>	<u>MCL</u>	Result
1-chloroe	icosafluoro-3-oxaundecane-1	-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-	-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chloroh	exadecafluoro-3-oxanonane-	1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluor	opropylene oxide dimer acid	(HFPO-DA)	1.0		ND
N-ethyl pe	erfluorooctanesulfonamidoac	etic acid (N-EtFOSAA)	2.5		ND
N-methyl	perfluorooctanesulfonamidoa	cetic acid (N-MeFOSAA)	3.0		ND
Perfluorol	outanesulfonic acid (PFBS)		1.0		ND
Perfluoro	decanoic acid (PFDA)		1.0		ND
Perfluoro	dodecanoic acid (PFDoA)		2.0		ND
Perfluorol	neptanoic acid (PFHpA)		2.0		ND
Perfluorol	nexanesulfonic acid (PFHxS)		1.0		ND
Perfluorol	nexanoic acid (PFHxA)		1.0		ND
Perfluoror	nonanoic acid (PFNA)		2.0		ND
Perfluoro	octanesulfonic acid (PFOS)		2.0		ND
Perfluoro	octanoic acid (PFOA)		1.0		ND
Perfluorot	tetradecanoic acid (PFTDA)		1.0		ND
Perfluorot	tridecanoic acid (PFTrDA)		2.0		ND
Perfluorou	undecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Approval date: 01/19/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

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Bottle No.: \$01-0033-P02 Pla	Plant/Site Name: We Str	Steanguet	County: Allegany
Location: 10% 0 will	Sample Source:	urce: Street	Town or City
Collector/ID: Holt 621371+		Phone No.:	
0 0 1 2 2 0 0	0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	02 1 / 11 /20 Plant No.	7) June Collected
Field Data: pH	ree CI:	Date Collect	Total CI:
Drinking water Private Community Non-Community	ill n ediment	reated ent Pla	□ Oil □ Solid
Specify Program: CSDWA NI	□ NPDES □ RCKA	LI CWA LI CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP) ☐ EPA Method 508 [Aroclors (SCAN	☐ Field Blank ☐ Field Blank	☐ Sodium thiosulfate☐ Sodium thiosulfate	
only) & Toxaphene]	Juda Plois	Codium thiosulfata	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	O
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
CEPA Method 624.2 (Votatiles 5.3.) CEPA Method 624.2 (Votatiles 5.3.) CEPA Method 624.2 (Votatiles 5.3.)	Trip Blank Trip Blank	CASHEE TC CMA □ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs)			
E21001768003 Received: 01/12/2021 EPA 537.1 Organics 0010033TP02 Organics Remarks:	E21001768004 Received: 01/12/2021 EPA 537 Organics 0010033TF	004 2021 EPA 537.1 0010033TP02F	
Lab Supervisor:		Date I	Date Reported:

SAMPLE TESTED AS RECEIVED

•Fax: (443) 681-4507

●Phone: (443) 681-3857

ORIGINAL - LABORATORY





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001768003 Method: EPA 537.1 - PFAS

Date Received: 01/12/2021 Date Collected: 01/11/2021

Field ID:	0010033TP02	Submitted By:	Holt		Date Analyzed:	01/14/2021
Contamina	ant			<u>RL</u>	<u>MCL</u>	Result
1-chloroeid	cosafluoro-3-oxaundecane-1-sulfor	ic acid (11Cl-PF3OL	ldS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid (ADONA	A)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-sulfo	nic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPC	P-DA)		1.0		ND
N-ethyl per	rfluorooctanesulfonamidoacetic aci	d (N-EtFOSAA)		2.5		ND
N-methyl p	perfluorooctanesulfonamidoacetic a	cid (N-MeFOSAA)		3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorod	ecanoic acid (PFDA)			1.0		ND
Perfluorod	odecanoic acid (PFDoA)			2.0		ND
Perfluoroh	eptanoic acid (PFHpA)			2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)			1.0		ND
Perfluoroh	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)			2.0		ND
Perfluoroo	ctanoic acid (PFOA)			1.0		ND
Perfluorote	etradecanoic acid (PFTDA)			1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)			2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/19/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





01/14/0001

Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001768004 Method: EPA 537.1 - PFAS

Date Received: 01/12/2021 Date Collected: 01/11/2021
Field ID: 0010033TP02FR Submitted Ry: Holt

Field ID:	0010033TP02FB	Submitted By: Holt		Date Analyzed:	01/14/2021
Contamin	ant .		<u>RL</u>	MCL F	<u>Result</u>
1-chloroei	cosafluoro-3-oxaundecane-1	-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-	3H-perfluorononanoic acid (A	ADONA)	1.0		ND
9-chlorohe	exadecafluoro-3-oxanonane-	1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluor	opropylene oxide dimer acid	(HFPO-DA)	1.0		ND
N-ethyl pe	erfluorooctanesulfonamidoac	etic acid (N-EtFOSAA)	2.5		ND
N-methyl	perfluorooctanesulfonamidoa	acetic acid (N-MeFOSAA)	3.0		ND
Perfluorob	outanesulfonic acid (PFBS)		1.0		ND
Perfluoroc	decanoic acid (PFDA)		1.0		ND
Perfluoroc	dodecanoic acid (PFDoA)		2.0		ND
Perfluoroh	neptanoic acid (PFHpA)		2.0		ND
Perfluoroh	nexanesulfonic acid (PFHxS)		1.0		ND
Perfluoroh	nexanoic acid (PFHxA)		1.0		ND
Perfluoror	nonanoic acid (PFNA)		2.0		ND
Perfluoroc	octanesulfonic acid (PFOS)		2.0		ND
Perfluoroc	octanoic acid (PFOA)		1.0		ND
Perfluorot	etradecanoic acid (PFTDA)		1.0		ND
Perfluorot	ridecanoic acid (PFTrDA)		2.0		ND
Perfluorou	undecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Approval date: 01/19/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to: Temperature Blank: 1.0 °C State of Maryland MDH - Laboratories Administration Division of Environmental Chemistry ORGANICS ANALYTICAL LABORATORY Tollie . 1770 Ashland Avenue BALTIMORE, MARYLAND 21205 LABORATORY ANALYSIS REQUEST FORM Please write legibly Bottle No.: 007. 0029 - TPO/Plant/Site Name: TOWN OF CHARLES TOWN County: CECIL Location: WELL 112 Sample Source: __ Collector/ID: 5 JOSEPH GAY 884116 Phone No.: 410446 7324 Field Data: pH 067 Free CI: Total CI: and Region ! Sample Type: Drinking water □ Landfill □ Source (water) □ Oil ☐ Private □ Stream ☐ Distribution (treated) □ Solid Community ☐ Soil/Sediment ☐ Water Treatment Plant POE □ Other _ □ Non-Community Specify Program: DWA □ NPDES □ RCRA □ CWA □ CERCLA ☐ Consumer Products □ Other Test Requested Field & Trip Blank Preservative Used Comment ☐ EPA Method 504.1 (EDB/DBCP) ☐ Field Blank ☐ Sodium thiosulfate ☐ EPA Method 508 [Aroclors (SCAN ☐ Field Blank ☐ Sodium thiosulfate only) & Toxaphene] EPA Method 515.3 (Herbicides) ☐ Field Blank ☐ Sodium thiosulfate ☐ EPA Method 525.2 (Pesticides) ☐ Field Blank ☐ HCL (6N) ☐ Sodium sulfite ☐ EPA Method 531.2 (Carbamates) ☐ Field Blank ☐ Potassium Citrate monobasic ☐ Sodium thiosulfate ☐ Field Blank ☐ EPA Method 552.2 (Haloacetic acids) ☐ Ammonium chloride ☐ EPA Method 8270 (Semi-Volatiles) ☐ Sodium thiosulfate ☐ Pesticides ☐ Aroclors EPA Method 524.2 (Volatiles) ☐ Field Blank ☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid U VOCS THMs ☐ Trip Blank ☐ Sodium thiosulfate ☐ EPA Method 8260 (VOCs) PFAS TRIS BASE TRIS HCL FIELD BLANK E21001769001 Received: 01/12/2021 EPA 537.1 E21001769002 Received: 01/12/2021 EPA 537.1 FB0070029TP0 0070029TP01 Organics Organics CAPHUI. unity) & Toxabi FPA Methics A Melhou PA Methodis Flesholdes Remarks: VC 35 Lab Supervisor: Date Reported: _ •Phone: (443) 681-3857 •Fax: (443) 681-4507 SAMPLE TESTED AS RECEIVED ORIGINAL - LABORATORY VDH98 (02/18)

Received 0:





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001769001 Method: EPA 537.1 - PFAS

Date Received: 01/12/2021 Date Collected: 01/12/2021

Field ID:	0070029TP01	Submitted By:	Joseph Gay		Date Analyzed:	01/14/2021
Contamina	<u>nt</u>			<u>RL</u>	MCL	Result
1-chloroeico	osafluoro-3-oxaundecane-1-sulfonic	acid (11CI-PF3OU	dS)	2.0		ND
4,8-dioxa-3l	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	adecafluoro-3-oxanonane-1-sulfonio	c acid (9Cl-PF3ON	S)	2.0		ND
Hexafluorop	oropylene oxide dimer acid (HFPO-D	DA)		1.0		ND
N-ethyl perf	luorooctanesulfonamidoacetic acid	(N-EtFOSAA)		2.5		ND
N-methyl pe	erfluorooctanesulfonamidoacetic aci	d (N-MeFOSAA)		3.0		ND
Perfluorobu	tanesulfonic acid (PFBS)			1.0		ND
Perfluorode	canoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	ptanoic acid (PFHpA)			2.0		ND
Perfluorohe	xanesulfonic acid (PFHxS)			1.0		1.69
Perfluorohe	xanoic acid (PFHxA)			1.0		ND
Perfluorono	nanoic acid (PFNA)			2.0		ND
Perfluorooc	tanesulfonic acid (PFOS)			2.0		2.06
Perfluorooc	tanoic acid (PFOA)			1.0		ND
Perfluorotet	radecanoic acid (PFTDA)			1.0		ND
Perfluorotrio	decanoic acid (PFTrDA)			2.0		ND
Perfluoroun	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by: Approval date: 01/25/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001769002 Method: EPA 537.1 - PFAS

Date Received: 01/12/2021 Date Collected: 01/12/2021

Field ID:	FB0070029TP01	Submitted By:	Joseph Gay		Date Analyzed:	01/14/2021
Contamina	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	osafluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OUd	dS)	2.0		ND
4,8-dioxa-3l	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	adecafluoro-3-oxanonane-1-sulfonic	acid (9CI-PF3ONS	3)	2.0		ND
Hexafluorop	ropylene oxide dimer acid (HFPO-D	A)		1.0		ND
N-ethyl perf	luorooctanesulfonamidoacetic acid (N-EtFOSAA)		2.5		ND
N-methyl pe	erfluorooctanesulfonamidoacetic acid	l (N-MeFOSAA)		3.0		ND
Perfluorobu	tanesulfonic acid (PFBS)			1.0		ND
Perfluorode	canoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	ptanoic acid (PFHpA)			2.0		ND
Perfluorohe	xanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	xanoic acid (PFHxA)			1.0		ND
Perfluorono	nanoic acid (PFNA)			2.0		ND
Perfluorooct	tanesulfonic acid (PFOS)			2.0		ND
Perfluorooct	tanoic acid (PFOA)			1.0		ND
Perfluorotet	radecanoic acid (PFTDA)			1.0		ND
Perfluorotric	lecanoic acid (PFTrDA)			2.0		ND
Perfluoroun	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/25/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

	State of Maryla MDH - Laboratories Adn Division of Environment DRGANICS ANALYTICAL	ninistration al Chemistry L LABORATORY	Temperat	rure Blank: 1.0 °C
	1770 Ashland Ave BALTIMORE, MARYI			
LA Anna LA	BORATORY ANALYSI			
Bottle No.: 00 7 -0209 - The	Po / int/Site Name: <u>BEN</u>	1. VIL. / Home	STE Coun	ty: <u>CEC/</u> C
Location: BENJ, 142/Home				
Collector/ID: JOSEPH 6AS	1884110	Phon	e No.: 4	104467324
	70209 PWSID			
Field Data: pH 05.6	Free CI:	0,1	Total CI:	0,2
Sample Type: Drinking water Private Non-Community Specify Program: SDWA N	Stream Dist	rce (water) tribution (treated) ter Treatment Plant POI	E 0	Oil Solid Other
☐ Other Test Requested	Field & Trip Blank	Preservative Use	ed	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate		day bar
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate		
☐ □ EPA Method 515.3 (Herbicides) ☐ EPA Method 525.2 (Pesticides)	☐ Field Blank ☐ Field Blank	☐ Sodium thiosulfate ☐ HCL (6N) ☐ Sodium sulfite	7	
EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate mo☐ Sodium thiosulfate	onobasic	
☐ EPA Method 552.2 (Haloacetic acids) ☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	☐ Field Blank	☐ Ammonium chloride ☐ Sodium thiosulfate		
□ PA Method 524.2 (Volatiles) □ VOCS □ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic a ☐ Sodium thiosulfate		VIII.
© EPA Method 8260 (VOCs) 537. / PFAS	FIELD 314AL	TRIS BASE TRIS HCL		
E21001769003 Received: 01/12/2021 EPA 537.1 Organics 0070209TP01	E210017690 Received: 01/12/2 Organics	NO		
11 EPANIS 1922 11 EPANIS 1270 12 Pesanti				
Remarks:				
Lab Supervisor: • Phone MDH98 (02/18)	e: (443) 681-3857 ORIGINAL -	•Fax: (443) 681-45 LABORATORY SAN		ted:/
Trans.				





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001769003 Method: EPA 537.1 - PFAS

Date Received: 01/12/2021 Date Collected: 01/12/2021

Field ID:	0070209TP01	Submitted By:	Joseph Gay		Date Analyzed:	01/14/2021
Contaminar	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	safluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3H	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohexa	adecafluoro-3-oxanonane-1-sulfonio	acid (9Cl-PF3ON	S)	2.0		ND
Hexafluorop	ropylene oxide dimer acid (HFPO-D	PA)		1.0		ND
N-ethyl perfl	uorooctanesulfonamidoacetic acid ((N-EtFOSAA)		2.5		ND
N-methyl pe	rfluorooctanesulfonamidoacetic acid	d (N-MeFOSAA)		3.0		ND
Perfluorobut	tanesulfonic acid (PFBS)			1.0		14.20
Perfluoroded	canoic acid (PFDA)			1.0		ND
Perfluorodoo	decanoic acid (PFDoA)			2.0		ND
Perfluoroher	otanoic acid (PFHpA)			2.0		3.37
Perfluorohex	xanesulfonic acid (PFHxS)			1.0		61.49
Perfluorohex	xanoic acid (PFHxA)			1.0		11.84
Perfluoronor	nanoic acid (PFNA)			2.0		ND
Perfluorooct	anesulfonic acid (PFOS)			2.0		2.84
Perfluorooct	anoic acid (PFOA)			1.0		5.23
Perfluorotetr	radecanoic acid (PFTDA)			1.0		ND
Perfluorotrid	lecanoic acid (PFTrDA)			2.0		ND
Perfluoround	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approved date: 01/25/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001769004 Method: EPA 537.1 - PFAS

Date Received: 01/12/2021 Date Collected: 01/12/2021

Field ID:	FB0070209TP01	Submitted By:	Joseph Gay		Date Analyzed:	01/14/2021
Contamina	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	osafluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OUd	dS)	2.0		ND
4,8-dioxa-3l	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	adecafluoro-3-oxanonane-1-sulfonic	acid (9CI-PF3ONS	3)	2.0		ND
Hexafluorop	ropylene oxide dimer acid (HFPO-D	A)		1.0		ND
N-ethyl perf	luorooctanesulfonamidoacetic acid (N-EtFOSAA)		2.5		ND
N-methyl pe	erfluorooctanesulfonamidoacetic acid	(N-MeFOSAA)		3.0		ND
Perfluorobu	tanesulfonic acid (PFBS)			1.0		ND
Perfluorode	canoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	ptanoic acid (PFHpA)			2.0		ND
Perfluorohe	xanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	xanoic acid (PFHxA)			1.0		ND
Perfluorono	nanoic acid (PFNA)			2.0		ND
Perfluorooct	tanesulfonic acid (PFOS)			2.0		ND
Perfluorooct	tanoic acid (PFOA)			1.0		ND
Perfluorotet	radecanoic acid (PFTDA)			1.0		ND
Perfluorotric	lecanoic acid (PFTrDA)			2.0		ND
Perfluoroun	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/25/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to: State of Maryland Temperature Blank: 1.0 °C MDH - Laboratories Administration Division of Environmental Chemistry ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue BALTIMORE, MARYLAND 21205 LABORATORY ANALYSIS REQUEST FORM Please write legibly Bottle No.: CO7-0223- TPO Plant/Site Name: MAPLE HILL MOBIL COUNTY: CECIL Location: Sample Source: _ Collector D: VOSEPH GAY Phone No.: 4104467324 0 PWSID 06,0 Field Data: pH _ 10,1 Free CI: Total CI: Sond Repu Sample Type: Drinking water □ Landfill ☐ Source (water) □ Oil □ Private □ Stream ☐ Distribution (treated) □ Solid Community ☐ Soil/Sediment ☐ Water Treatment Plant POE □ Other _ □ Non-Community Specify Program: D'SDWA □ NPDES □ RCRA □ CWA □ CERCLA ☐ Consumer Products □ Other Test Requested Field & Trip Blank Preservative Used Comment ☐ EPA Method 504.1 (EDB/DBCP) ☐ Field Blank ☐ Sodium thiosulfate EPA Method 508 [Aroclors (SCAN ☐ Field Blank ☐ Sodium thiosulfate only) & Toxaphene] EPA Method 515.3 (Herbicides) ☐ Field Blank ☐ Sodium thiosulfate ☐ EPA Method 525.2 (Pesticides) ☐ Field Blank ☐ HCL (6N) ☐ Sodium sulfite ☐ EPA Method 531.2 (Carbamates) ☐ Potassium Citrate monobasic ☐ Field Blank ☐ Sodium thiosulfate ☐ EPA Method 552.2 (Haloacetic acids) ☐ Field Blank ☐ Ammonium chloride EPA Method 8270 (Semi-Volatiles) ☐ Sodium thiosulfate ☐ Pesticides ☐ Aroclors EPA Method 524.2 (Volatiles) ☐ Field Blank ☐ 1:1 HCL □ VOCS ☐ THMs ☐ Trip Blank ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate ☐ EPA Method 8200 (VOCe) PFAS TRIS BASE TRIS HCL FIELDBLANK 5371 E21001769005 Received: 01/12/2021 EPA 537.1 E21001769006 Received: 01/12/2021 EPA 537.1 Organics 0070223TP01 Organics FB0070223TP0 an EPA Menne as EPA Wenned Set & (Purpose)

Remarks:

Lab Supervisor: ______ Date Reported: ___/__/

•Phone: (443) 681-3857

•Fax: (443) 681-4507

SAMPLE TESTED AS RECEIVED

ORIGINAL - LABORATORY

MDH98 (02/18)

+ Organ





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001769005 Method: EPA 537.1 - PFAS

Date Received: 01/12/2021 Date Collected: 01/12/2021

Field ID:	0070223TP01	Submitted By:	Joseph Gay		Date Analyzed:	01/20/2021
Contaminan	<u>t</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	safluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	I-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohexa	adecafluoro-3-oxanonane-1-sulfonio	acid (9Cl-PF3ON	S)	2.0		ND
Hexafluorop	ropylene oxide dimer acid (HFPO-D	PA)		1.0		ND
N-ethyl perfl	uorooctanesulfonamidoacetic acid (N-EtFOSAA)		2.5		ND
N-methyl per	rfluorooctanesulfonamidoacetic acid	d (N-MeFOSAA)		3.0		ND
Perfluorobut	anesulfonic acid (PFBS)			1.0		2.65
Perfluoroded	canoic acid (PFDA)			1.0		ND
Perfluorodoo	lecanoic acid (PFDoA)			2.0		ND
Perfluorohep	otanoic acid (PFHpA)			2.0		ND
Perfluorohex	canesulfonic acid (PFHxS)			1.0		1.58
Perfluorohex	anoic acid (PFHxA)			1.0		2.17
Perfluoronor	nanoic acid (PFNA)			2.0		ND
Perfluoroocta	anesulfonic acid (PFOS)			2.0		2.96
Perfluoroocta	anoic acid (PFOA)			1.0		4.85
Perfluorotetr	adecanoic acid (PFTDA)			1.0		ND
Perfluorotrid	ecanoic acid (PFTrDA)			2.0		ND
Perfluoround	lecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/25/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001769006 Method: EPA 537.1 - PFAS

Date Received: 01/12/2021 Date Collected: 01/12/2021

Field ID:	FB0070223TP01	Submitted By:	Joseph Gay		Date Analyzed:	01/19/2021
Contamina	<u>nt</u>			<u>RL</u>	MCL	Result
1-chloroeico	osafluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OUd	dS)	2.0		ND
4,8-dioxa-3l	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	adecafluoro-3-oxanonane-1-sulfonio	acid (9CI-PF3ONS	S)	2.0		ND
Hexafluorop	propylene oxide dimer acid (HFPO-D	A)		1.0		ND
N-ethyl perf	luorooctanesulfonamidoacetic acid (N-EtFOSAA)		2.5		ND
N-methyl pe	erfluorooctanesulfonamidoacetic acid	l (N-MeFOSAA)		3.0		ND
Perfluorobu	tanesulfonic acid (PFBS)			1.0		ND
Perfluorode	canoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	ptanoic acid (PFHpA)			2.0		ND
Perfluorohe	xanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	xanoic acid (PFHxA)			1.0		ND
Perfluorono	nanoic acid (PFNA)			2.0		ND
Perfluorooc	tanesulfonic acid (PFOS)			2.0		ND
Perfluorooc	tanoic acid (PFOA)			1.0		ND
Perfluorotet	radecanoic acid (PFTDA)			1.0		ND
Perfluorotrio	decanoic acid (PFTrDA)			2.0		ND
Perfluoroun	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/25/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to: State of Maryland Temperature Blank: 3.0 °C MDH - Laboratories Administration Division of Environmental Chemistry ORGANICS ANALYTICAL LABORATORY North Brown 1770 Ashland Avenue BALTIMORE, MARYLAND 21205 LABORATORY ANALYSIS REQUEST FORM Please write legibly Plant/Site Name: High Field - Casade Well Bottle No .: 021-0601-TP01 County: W Sample Source: Well 2 (Willard) abandone 5 years = 500 Location: PDEC Cascade WN Collector D: Phone No .: 4104467432 System No. Field Data: pH Free CI: Total CI: Z. Sample Type: Drinking water □ Landfill ☐ Source (water) □ Oil ☐ Distribution (treated) □ Private □ Stream □ Solid Deommunity ☐ Soil/Sediment ☐ Water Treatment Plant POE □ Other □ Non-Community Specify Program: SDWA □ NPDES □ RCRA □ CWA □ CERCLA ☐ Consumer Products □ Other Test Requested Field & Trip Blank Preservative Used Comment ☐ EPA Method 504.1 (EDB/DBCP) ☐ Field Blank ☐ Sodium thiosulfate EPA Method 508 [Aroclors (SCAN ☐ Field Blank ☐ Sodium thiosulfate only) & Toxaphene] EPA Method 515.3 (Herbicides) ☐ Field Blank ☐ Sodium thiosulfate ☐ EPA Method 525.2 (Pesticides) ☐ HCL (6N) ☐ Field Blank ☐ Sodium sulfite ☐ EPA Method 531.2 (Carbamates) ☐ Potassium Citrate monobasic ☐ Field Blank ☐ Sodium thiosulfate ☐ EPA Method 552.2 (Haloacetic acids) ☐ Field Blank ☐ Ammonium chloride EPA Method 8270 (Semi-Volatiles) ☐ Sodium thiosulfate ☐ Pesticides ☐ Aroclors EPA Method 524.2 (Volatiles) \$37 Drield Blank 1:1 HCL + Ascorbic acid VOCE PRAS ☐ THMs Trip Blank ☐ Sodium thiosulfate Bluelabe ☐ EPA Method 8260 (VOCs) -LINTENE DIE DEL BER 1900 LINE DER DER GER GER LEIN 1900 LINE BERCER DER **E21001776002**Received: 01/13/2021 EPA 537.1 **E21001776001** Received: 01/13/2021 EPA 537.1 0210001TP01 Organics Organics FB0210001TP0 only) & SPA Ma Remarks: Lab Supervisor: Date Reported: •Phone: (443) 681-3857 •Fax: (443) 681-4507 ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

MDH98 (02/18)





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001776001 Method: EPA 537.1 - PFAS

Date Received: 01/13/2021 Date Collected: 01/12/2021

Field ID:	0210001TP01	Submitted By:	Holt		Date Analyzed:	01/20/2021
Contamina	<u>ınt</u>			<u>RL</u>	MCL	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfon	ic acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADONA	A)		1.0		ND
9-chlorohex	xadecafluoro-3-oxanonane-1-sulfor	nic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO	-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid	d (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic a	cid (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		1.18
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		1.00
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		3.06
Perfluorood	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approved by:

Approval date: 01/25/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001776002 Method: EPA 537.1 - PFAS

Date Received: 01/13/2021 Date Collected: 01/12/2021

Field ID:	FB0210001TP01	Submitted By:	Holt		Date Analyzed:	01/20/2021
Contamina	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-s	ulfonic acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (AD	ONA)		1.0		ND
9-chlorohe	kadecafluoro-3-oxanonane-1-s	sulfonic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (H	FPO-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoaceti	acid (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoace	tic acid (N-MeFOSAA)		3.0		ND
Perfluorobu	itanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	tanesulfonic acid (PFOS)			2.0		ND
Perfluorood	tanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approved by:

Approval date: 01/25/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Mar MDH - Laboratories A Division of Environme ORGANICS ANALYTIC 1770 Ashland A BALTIMORE, MAR	dministration ental Chemistry AL LABORATORY venue	Тетр	erature Blank	: 2.0 AF 1113
L	ABORATORY ANALYS Please write		RM		
Bottle No.: 021-6001-1902 PI	ant/Site Name: _Hahf	Feld Well Z		ounty: _U	lath
Location: PDE@ Well 3 WN	V	ource:			
Collector/ID: Holt 63237	+	Street	one No.: _	Town or C	
County System No.	PWSID		12/207 e Collected	л П	O Ozmypn Time Collect
Field Data: pH 2 6.6	Free CI:	4	Total	CI: (, 9	
Sample Type: 1 Drinking water Private Community Non-Community	Stream Di Di Soil/Sediment	urce (water) stribution (treated) ater Treatment Plant P		□ Oil □ Solid □ Other	way.
Speciny Program: □ OwA □ N	PDES RCRA	□ CWA □ C	ERCLA	□ Consum	er Produc
Test Requested	Field & Trip Blank	Preservative U	lsed	Cor	nment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate			
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate			
EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	ma (19)	G MEN	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite			
EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate r☐ Sodium thiosulfate	nonobasic		LE
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	э ,		
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate			
EPA Method 524.2 (Volatiles) 537, VOCS THMs	□ Ffeld Blank □ Trip Blank □ Label	☐ 1:1 HCL + Ascorbio ☐ Sodium thiosulfate	MA acid	77 (34)	
☐ EPA Method 8260 (VOCs)	15 (UR IASE)		•		
E21001776003 Received: 01/13/2021 EPA 537.1 Organics 0210001TP02	E2100177600 Received: 01/13/20 Organics	21 EPA 537.1 FB0210001TP0	KCI	Co.	i conse
D - EPA Menori Sp2.2					
Remarks:					
ab Supervisor:			Date Repo	orted:/_	
●Phone:	(443) 681-3857 ORIGINAL - L	•Fax: (443) 681-45 ABORATORY		STED AS RE	CEIVED





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001776003 Method: EPA 537.1 - PFAS

Date Received: 01/13/2021 Date Collected: 01/12/2021

Field ID:	0210001TP02	Submitted By:	Holt		Date Analyzed:	01/20/2021
Contamina	<u>nt</u>			<u>RL</u>	MCL	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfon	ic acid (11Cl-PF3OU	ldS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADONA	A)		1.0		ND
9-chlorohex	kadecafluoro-3-oxanonane-1-sulfo	nic acid (9CI-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFPO	-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic aci	d (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic a	cid (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		1.55
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		2.46
Perfluorood	etanoic acid (PFOA)			1.0		1.02
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by: Approval date: 01/25/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001776004 Method: EPA 537.1 - PFAS

Date Received: 01/13/2021 Date Collected: 01/12/2021

Field ID:	FB0210001TP02	Submitted By:	Holt		Date Analyzed:	01/20/2021
Contamina	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-s	ulfonic acid (11CI-PF3OL	JdS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (AD	ONA)		1.0		ND
9-chlorohex	xadecafluoro-3-oxanonane-1-	sulfonic acid (9Cl-PF3ON	IS)	2.0		ND
Hexafluoro	propylene oxide dimer acid (H	FPO-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoaceti	c acid (N-EtFOSAA)		2.5		ND
N-methyl pe	erfluorooctanesulfonamidoace	etic acid (N-MeFOSAA)		3.0		ND
Perfluorobu	tanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	nanoic acid (PFNA)			2.0		ND
Perfluorood	tanesulfonic acid (PFOS)			2.0		ND
Perfluorood	tanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluoroun	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by: Approval date: 01/25/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Man DHMH - Laboratories		Temperature	Blank: Z.U °C
	Division of Environm ORGANICS ANALYTIC 1770 Ashland A	ental Chemistry AL LABORATORY Avenue		AF 1/13/2
	BALTIMORE, MARYL ABORATORY ANALYS		A	
Section of the Control of the Control	Please write			
Bottle No.: <u>621-606/- 17</u> 03 P				
	V	Tle d- rengersv!	e County:	Wash
ocation: POE a Well4 WM	Sample S	ource:Street		Fown or City
Collector/ID: Holf 6323])+	Pho	ne No.: <u>4104</u>	467482
County System No.	Z 1 0 0 0 1		2_/20 Z (1120 an/pm Time Collected
rield Data: pH 7,3	Free CI:	3	Total CI:	5
ample Type: Drinking water Private	Stream	urce (water) stribution (treated) ater Treatment Plant PO		d all 1812
pecify Program: ☐ SDWA ☐ N	PDES RCRA	□ CWA □ CE	RCLA □ C	onsumer Products
Test Requested	Field & Trip Blank	Preservative Use	ed	Comment
EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate		
EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate		
EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate		
EPA Method 515.4 (Herbicides)	☐ Field Blank	☐ Sodium sulfite		
EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	- 566	11223
EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate mo	onobasic	
EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	Prig to 1	
I EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	☐ Field Blank	☐ Sodium thiosulfate		
EPA Method 524.2 (Volatiles)537.	☑-Field Blank ☐ Trip Blank	☐ 1:1 HCL + Ascorbic a	cid cid	
PPAS J EPA Method 8260 (VOCs)	हीपर 461 □ Field Blank	☐ Sodium thiosulfate ☐ 1:1 HCL		
MOSE AND ADDRESS OF THE PARTY O		☐ 1:1 HCL + Ascorbic a	cid	manufich riphymens
E2100 1776006 Received: 01/13/2021 EPA 537.1 FB021-0001-TF	E2100177600 Received: 01/13/20 Organics	D5 121 EPA 537.1 021-0001-TP03		Tanner
EFF Land				
EPA modusž z Rei EPA modusž z Rei EPA modusž z Rei				
marks:			1	
b Supervisor:			Date Reported:	
◆Phone:	(443) 681-3857 ORIGINAL - L	708-188 (844) :XBA® FCEIAED YROTAROBA		IJAWAS





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001776005 Method: EPA 537.1 - PFAS

Date Received: 01/13/2021 Date Collected: 01/12/2021

Field ID:	021-0001-TP03	Submitted By:	Holt		Date Analyzed:	01/20/2021
Contamina	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulf	onic acid (11Cl-PF3OU	ldS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADO	NA)		1.0		ND
9-chlorohe	kadecafluoro-3-oxanonane-1-su	fonic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HFF	PO-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic a	acid (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetio	acid (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by: Approval date: 01/25/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001776006 Method: EPA 537.1 - PFAS

Date Received: 01/13/2021 Date Collected: 01/12/2021

Field ID:	FB021-0001-TP03	Submitted By:	Holt		Date Analyzed:	01/20/2021
Contaminar	<u>nt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeico	safluoro-3-oxaundecane-1-sulfonic	acid (11CI-PF3OUd	dS)	2.0		ND
4,8-dioxa-3H	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	adecafluoro-3-oxanonane-1-sulfonio	acid (9Cl-PF3ONs	3)	2.0		ND
Hexafluorop	ropylene oxide dimer acid (HFPO-D	PA)		1.0		ND
N-ethyl perfl	uorooctanesulfonamidoacetic acid (N-EtFOSAA)		2.5		ND
N-methyl pe	rfluorooctanesulfonamidoacetic acid	d (N-MeFOSAA)		3.0		ND
Perfluorobut	anesulfonic acid (PFBS)			1.0		ND
Perfluorode	canoic acid (PFDA)			1.0		ND
Perfluorodo	decanoic acid (PFDoA)			2.0		ND
Perfluorohe	otanoic acid (PFHpA)			2.0		ND
Perfluorohe	kanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	xanoic acid (PFHxA)			1.0		ND
Perfluorono	nanoic acid (PFNA)			2.0		ND
Perfluorooct	anesulfonic acid (PFOS)			2.0		ND
Perfluorooct	anoic acid (PFOA)			1.0		ND
Perfluoroteti	radecanoic acid (PFTDA)			1.0		ND
Perfluorotrid	ecanoic acid (PFTrDA)			2.0		ND
Perfluoround	decanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by: Approval date: 01/25/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of M DHMH - Laboratori Division of Environr ORGANICS ANALYTI 1770 Ashland BALTIMORE, MARY	es Administration mental Chemistry CAL LABORATORY Avenue	Temperature Blank: 3.5 °C AF 1/15/2
	ABORATORY ANALY	YSIS REQUEST FORM	
123-1051-7P01 Bottle No.:	Plant/Site Name: Ba	ysideVillage	County: 1412 V
Location: Outside Top	(POE) Sample	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Br. Rd OC
	Sample	Street Street	Town or City
Collector/ID K basself	-	Phone I	No.: 410-868-62X
County System No.	7/ 23/05/	Plant No. Date Collec	/2021 10 m/pm tried Time Collected
Field Data: pH 7.0	Free CI:		Total CI:
Sample Type: Drinking water	I Landfill □ Sc	ource (water)	□ Oil
	Stream D	istribution (treated) ater Treatment Plant POE	□ Solid
□ Other _ N Ø	ippes orcra Batch color	□ CWA □ CERC	LA □ Consumer Products
Test Requested ☐ EPA Method 504.1 (EDB/DBCP)	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 508 [Aroclors (SCAN	☐ Field Blank ☐ Field Blank	☐ Sodium thiosulfate ☐ Sodium thiosulfate	1622 / J C
only) & Toxaphene] □ EPA Method 515.3 (Herbicides)	Cl Field Blank		in the second se
☐ EPA Method 515.4 (Herbicides)	☐ Field Blank ☐ Field Blank	☐ Sodium thiosulfate ☐ Sodium sulfite	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monob	pasic
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Sodium thiosulfate ☐ Ammonium chloride	man in the second
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	☐ Field Blank	☐ Sodium thiosulfate	Take a second
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	Some 1.5
EPA Method 8280 (VOSs) PCA5 537.\	Field Blank	1:1 HCL + Ascorbic acid	
E21001809001 Received: 01/15/2021 EPA 537.1 1231051TP01	E2100180900 Received: 01/15/202 Organics		A. Community Products
IT EP LOSS 1776 (See			
Remarks:		, Asuolbia acidis	
Lab Supervisor:		Date	Reported://
•Phone: (443) 681-3857 Original - la	•Fax: (443) 681-4507	E TESTED AS RECEIVED

DHMH98 (05/15)





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001809001 Method: EPA 537.1 - PFAS

Date Received: 01/15/2021 Date Collected: 01/14/2021

Field ID:	1231051TP01	Submitted By:	K Bassett		Date Analyzed:	01/20/2021
Contamina	<u>ınt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane	-1-sulfonic acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid	(ADONA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane	e-1-sulfonic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer aci	d (HFPO-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoa	cetic acid (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamido	pacetic acid (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS	5)		1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/25/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001809002 Method: EPA 537.1 - PFAS

Date Received: 01/15/2021 Date Collected: 01/14/2021

Field ID:	FB1231051TP01	Submitted By:	K Bassett		Date Analyzed:	01/20/2021
Contamina	<u>ınt</u>			<u>RL</u>	<u>MCL</u>	Result
1-chloroeic	osafluoro-3-oxaundecane-1-su	lfonic acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADC	DNA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-si	ulfonic acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	propylene oxide dimer acid (HF	FPO-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic	acid (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamidoacet	ic acid (N-MeFOSAA)		3.0		ND
Perfluorobu	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)			2.0		ND
Perfluorohe	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by: Approval date: 01/25/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of	Maryland		
	MDH - Laborator	ies Administration onmental Chemistry		ture Blank:
4 (200)	ORGANICS ANALY	TICAL LABORATORY	0	- 1/14/2
	1770 Ashlar	nd Avenue IARYLAND 21205		1. 1.
	LABORATORY ANAI		RM	
00.774		vrite legibly		
Bottle No.: 006-0017-7901	W Plant/Site Name: Wahe	field Valley Well 1	Count	v: Collect
Location: Plant	Sample	Source: Old New W	indsor PK	West mins to
Collector/ID: Thous Low	man 00765L		hone No.: 410	
		TP		
0 0 6 0 0 1 7 System No.	0060017	Plant No. Da	114 120.21	845
Cyclem No.	PWSID	Plant No. Da	te Collected	Time Collected
Field Data: pH 7.6	Free CI:	3.2	Total CI:	
Sample Type: Drinking water	r □ Landfill □ S		Tumpstut.	
□ Private		Source (water)	□ Oi	
Community		Distribution (treated) Vater Treatment Plant F		olid
□ Non-Commun	ity	vater Treatment Plant F	OE □ Ot	her
S. 10 D				
Specify Program: SDWA	□ NPDES □ RCRA	□ CWA □ C	ERCLA 🖂	Consumer Products
Double And Total Power of the Control of the Contro				consumer 1 Todaets
Test Requested ☐ EPA Method 504.1 (EDB/DBC	Field & Trip Blank	Preservative U	ised	Comment
☐ EPA Method 508 [Aroclors (SC	, lord Didtill	☐ Sodium thiosulfate	and the same	1.00
only) & Toxaphene]	AN ☐ Field Blank	☐ Sodium thiosulfate		and serving
☐ EPA Method 515.3 (Herbicides) ☐ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N)		
EPA Method 531.2 (Carbamate	es) ☐ Field Blank	☐ Sodium sulfite ☐ Potassium Citrate n	nonobasic	
☐ EPA Method 552.2 (Haloacetic	acida) [7 Fi-14 Pl	☐ Sodium thiosulfate		,,
☐ EPA Method 8270 (Semi-Volatii☐ Pesticides ☐ Aroclors	les)	☐ Ammonium chloride ☐ Sodium thiosulfate	7 101	Wasser 1
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic	acid	
EPA Method 8200 (VOGs) 53 /CAS		Sodium thiosulfate	* 20.00	W
Specify e.			287	
E21001801001				Tribut Explaints
Received: 01/14/2021 EPA 537.1	E2100180100 Received: 01/14/202	2 21 EPA 537.1		
Organics 0060017TP0	Organics PB	0060017TP01\		Comment
CANAL				
D. EPA COLO DE SONO				
T EM A COLOR RESERVOIS				
The second secon				
Y Tarrell To the Committee of the Commit				
I EPAR MINES				
Che Mige				
marks:				
Supervisor:				
mante et espende de		_ I	Date Reported: _	
•Ph	one: (443) 681-3857	•Fax: (443) 681-4507		
- 11	ORIGINAL - LA			
H98 (02/18)				
Organiza I H. Grange 710		SAMP	LE TESTED AS	RECEIVED

SAMPLE TESTED AS RECEIVED





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001801001 Method: EPA 537.1 - PFAS

Date Received: 01/14/2021 Date Collected: 01/14/2021

Field ID:	0060017TP01W1	Submitted By:	SHAWN LAWMAN		Date Analyzed:	01/20/2021
Contamina	<u>nt</u>		<u> </u>	<u>RL</u>	MCL	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfo	onic acid (11CI-PF3OU	dS) 2	.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADON	NA)	1	.0		ND
9-chlorohex	kadecafluoro-3-oxanonane-1-sulf	onic acid (9CI-PF3ON	S) 2	.0		ND
Hexafluoro	propylene oxide dimer acid (HFP	O-DA)	1	.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic a	cid (N-EtFOSAA)	2	.5		ND
N-methyl pe	erfluorooctanesulfonamidoacetic	acid (N-MeFOSAA)	3	.0		ND
Perfluorobu	ıtanesulfonic acid (PFBS)		1	.0		2.87
Perfluorode	ecanoic acid (PFDA)		1	.0		ND
Perfluorodo	odecanoic acid (PFDoA)		2	.0		ND
Perfluorohe	eptanoic acid (PFHpA)		2	.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)		1	.0		ND
Perfluorohe	exanoic acid (PFHxA)		1	.0		ND
Perfluorono	onanoic acid (PFNA)		2	.0		ND
Perfluorood	ctanesulfonic acid (PFOS)		2	.0		ND
Perfluorood	ctanoic acid (PFOA)		1	.0		1.04
Perfluorote	tradecanoic acid (PFTDA)		1	.0		ND
Perfluorotri	decanoic acid (PFTrDA)		2	.0		ND
Perfluorour	ndecanoic acid (PFUnDA)		1	.0		ND

Comments:

Approved by:

Approved by:

Approval date: 01/25/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001801002 Method: EPA 537.1 - PFAS

Date Received: 01/14/2021 Date Collected: 01/14/2021

Field ID:	0060017TP01W1FB	Submitted By:	SHAWN LAWMAN		Date Analyzed:	01/20/2021
Contamina	<u>nt</u>			<u>RL</u>	MCL	Result
1-chloroeic	osafluoro-3-oxaundecane-1-sulfonic	acid (11Cl-PF3OU	dS)	2.0		ND
4,8-dioxa-3	H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohex	kadecafluoro-3-oxanonane-1-sulfonio	acid (9Cl-PF3ON	S)	2.0		ND
Hexafluoro	oropylene oxide dimer acid (HFPO-D	A)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoacetic acid (N-EtFOSAA)	:	2.5		ND
N-methyl p	erfluorooctanesulfonamidoacetic acid	d (N-MeFOSAA)	;	3.0		ND
Perfluorobu	itanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorodo	odecanoic acid (PFDoA)		:	2.0		ND
Perfluorohe	eptanoic acid (PFHpA)		:	2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)			1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluorono	onanoic acid (PFNA)		:	2.0		ND
Perfluorood	etanesulfonic acid (PFOS)		:	2.0		ND
Perfluorood	etanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)		:	2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/25/2021

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Many DHMH - Laboratories A		Temperature Blank: 3.0 °C
	Division of Environmer	ntal Chemistry	1/20/21 Rt
	ORGANICS ANALYTICA 1770 Ashland Av	renue	
	BALTIMORE, MARYLA		
L./	ABORATORY ANALYS	IS REQUEST FORM	
	Pleaso write	legibly	
Bottle No.: 010-0010-760	ant/Site Name: 1 194 194	is buttle	County: <u>FREY</u>
ocation: PUCO WIY	Sample So	ource: Street	Town or City
Collector/1D: Holf 6327 SH	-0.00	Phone No	.: 4104467432
Ot O O O O O O O O O O O O O O O O O O	I O O O I O	Plant No. Date Collecte	d Time Collected
rield Data: pH 7.7	Free CI:	От	Total CI: 1, 3
	Landfill □ Sou	irce (water)	□ Oil
□ Private □		stribution (treated)	□ Solid
Community	Soil/Sediment Wa	ter Treatment Plant POE	□ Other
□ Non-Community			
pecify Program: 550WA D N	PDES RCRA	□ CWA □ CERCL	A □ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
BEPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 515.4 (Herbicides)	☐ Field Blank	☐ Sodium sulfite	
EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monoba☐ Sodium thiosulfate	sic
EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
D Pesticides □ Aroclors	□ Field Blank	☐ Sodium thiosulfate	
EPA Method 524.2 (Volatiles) 等3元(VOCS- □ THMs	Field Blank Trip Blank	☐ 1:1 HCL + Ascorbic acid	
PPAS	Max 165x\ ☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 8260 (VOCs)	LI Fleid Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid	
E21001832001 Received: 01/20/2021 EPA 537.1 Organics 010-0010-TP01	E2100183200 Received: 01/20/20 Organics	02	
Elanto en el Elanto			
District District Dispersion			
narks:			
Supervisor:		Date l	Reported:/
•Phone:	(443) 681-3857	•Fax: (443) 681-4507	
FRE HEX	ORIGINAL - LA	BORATORY	
MH98 (05/15)			TESTED AS RECEIVED
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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001832001

Method: EPA 537.1 - PFAS

Date Received:

Field ID:

01/20/2021

010-0010-TP01

Perfluorotetradecanoic acid (PFTDA)

Perfluorotridecanoic acid (PFTrDA)

Perfluoroundecanoic acid (PFUnDA)

Date Collected: 01/19/2021

Holt

Submitted By:

Date Analyzed: 01/23/2021

Contaminant RL MCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 ND Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 ND Perfluorohexanoic acid (PFHxA) 1.0 ND Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 ND

Comments:

Approved by:

Sadia Muneca

Approval date: 01/27/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Page 1 of 4

1.0

2.0

1.0

ND

ND

ND





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001832002

Method: EPA 537.1 - PFAS

Date Received:

01/20/2021

Date Collected: 01/19/2021

Field ID:	010-0010-TP01-FB	Submitted By: Holt		Date Analyze	ed: 01/23/2021	
Contamin	ant		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaundecane	e-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-3	BH-perfluorononanoic acid	(ADONA)	1.0		ND	
9-chlorohe	xadecafluoro-3-oxanonan	e-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluoro	propylene oxide dimer ac	id (HFPO-DA)	1.0		ND	
N-ethyl per	fluorooctanesulfonamidoa	acetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	erfluorooctanesulfonamid	oacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND	
Perfluorode	ecanoic acid (PFDA)		1.0		ND	
Perfluorodo	odecanoic acid (PFDoA)		2.0		ND	
Perfluorohe	eptanoic acid (PFHpA)		2.0		ND	
Perfluorohe	exanesulfonic acid (PFHx	S)	1.0		ND	
Perfluorohe	exanoic acid (PFHxA)		1.0		ND	
Perfluorono	onanoic acid (PFNA)		2.0		ND	
Perfluorood	ctanesulfonic acid (PFOS)		2.0		ND	
Perfluorood	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	tradecanoic acid (PFTDA)		1.0		ND	
Perfluorotri	decanoic acid (PFTrDA)		2.0		ND	
Perfluorour	ndecanoic acid (PFUnDA)		1.0		ND	

Comments:

Approved by:

Approval date: 01/27/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001832003

Method: EPA 537.1 - PFAS

Date Received:

01/20/2021

Date Collected: 01/19/2021

Field ID: 0	10-0015-TP03	Submitted By:	Holt		Date Analyzed:	01/23/2021
Contaminant	<u>t</u>			<u>RL</u>	MCL	Result
1-chloroeicos	afluoro-3-oxaundecane-1-sulfo	nic acid (11Cl-Pl	F3OUdS)	2.0		ND
4,8-dioxa-3H-	perfluorononanoic acid (ADON	IA)		1.0		ND
9-chlorohexad	decafluoro-3-oxanonane-1-sulf	onic acid (9CI-Pf	F3ONS)	2.0		ND
Hexafluoropro	opylene oxide dimer acid (HFP	O-DA)		1.0		ND
N-ethyl perflu	orooctanesulfonamidoacetic ad	cid (N-EtFOSAA)		2.5		ND
N-methyl perf	luorooctanesulfonamidoacetic	acid (N-MeFOSA	√A)	3.0		ND
Perfluorobuta	nesulfonic acid (PFBS)			1.0		ND
Perfluorodeca	anoic acid (PFDA)			1.0		ND
Perfluorodode	ecanoic acid (PFDoA)			2.0		ND
Perfluorohepta	anoic acid (PFHpA)			2.0		ND
Perfluorohexa	inesulfonic acid (PFHxS)			1.0		ND
Perfluorohexa	noic acid (PFHxA)			1.0		ND
Perfluoronona	nnoic acid (PFNA)			2.0		ND
Perfluorooctar	nesulfonic acid (PFOS)			2.0		ND
Perfluorooctar	noic acid (PFOA)			1.0		ND
Perfluorotetra	decanoic acid (PFTDA)			1.0		ND
Perfluorotrided	canoic acid (PFTrDA)			2.0		ND
Perfluorounde	canoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Sacia Muneca

Approval date: 01/27/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001832004

Method: EPA 537.1 - PFAS

Date Received:

01/20/2021 010-0015-TP03-FF Date Collected: 01/19/2021

Field ID: 010-0015-TP03-FE	Submitted By: Holt		Date Analyzed	: 01/23/2021
<u>Contaminant</u>		RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulf	onic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADO	NA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sul	fonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFF	PO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic a	cid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic	acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)		1.0		ND
Perfluorodecanoic acid (PFDA)		1.0		ND
Perfluorododecanoic acid (PFDoA)		2.0		ND
Perfluoroheptanoic acid (PFHpA)		2.0		ND
Perfluorohexanesulfonic acid (PFHxS)		1.0		ND
Perfluorohexanoic acid (PFHxA)		1.0		ND
Perfluorononanoic acid (PFNA)		2.0		ND
Perfluorooctanesulfonic acid (PFOS)		2.0		ND
Perfluorooctanoic acid (PFOA)		1.0		ND
Perfluorotetradecanoic acid (PFTDA)		1.0		ND
Perfluorotridecanoic acid (PFTrDA)		2.0		ND
Perfluoroundecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Approval date: 01/27/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Maryl: MDH - Laboratorics Adr Division of Environment DRGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARYI	ministration tal Chemistry L LABORATORY enue	perature Blank: 0,0 °C
I.A	BORATORY ANALYS	IS REQUEST FORM	
144	Please write le	egibly	
Bottle No.: 006-0003 PW14-W36 Pla	ant/Site Name: Hung	stead Well 36 Raw	County: Carroll
Location: Plant	Sample Sou	urce: 1960 Upper Forde La	Humpstand Town or City
CollectorAD: Shown Lowner			
0 0 6 0 0 0 3 0 0 County System No.		Plant No. Date Collected	
Field Data: pH 5, 9	Free CI:	Total	CI:
☐ Private ☐ ☐ Community ☐ Non-Community ☐ Non-Community	Stream Dis	tribution (treated) ter Treatment Plant POE	□ Oil □ Solid □ Other □ Consumer Products
☐ Other	Field 9 Trip Pleas	Drogovystiva Haad	Comment
Test Requested	Field & Trip Blank ☐ Field Blank	Preservative Used Sodium thiosulfate	Comment
☐ EPA Method 504.1 (EDB/DBCP) ☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	7.5
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	4
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method 8269 (VOCs) - \$ 37, 1	& Field Blank	EX Trizmo	
E21001851001 Received: 01/21/2021 EPA 537.1 Organics 006-0003-RW14	E21001851002 Received: 01/21/2021 Organics F		
CONTRACTOR OF THE PROPERTY OF			
Remarks:	# I		
Lab Supervisor:	(443) 681-3857	Date Re	ported:/

MDH98 (02/18)

ORIGINAL - LABORATORY





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001851001

Method: EPA 537.1 - PFAS

Date Received:

01/21/2021

Date Collected: 01/21/2021

Field ID: 006-0003-RW14-\ Submitted By: Shawn Lowman Date Analyzed: 01/26/2021

Field ID:	006-0003-RW14-1	Submitted By: Shawn Lo	wman	Date Analyze	ed: 01/26/2021	
Contamin	ant		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaundecane-1-sul	fonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid (ADC	NA)	1.0		ND	
9-chlorohe	xadecafluoro-3-oxanonane-1 - su	Ilfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluord	propylene oxide dimer acid (HF	PO-DA)	1.0		ND	
N-ethyl per	rfluorooctanesulfonamidoacetic	acid (N-EtFOSAA)	2.5		ND	
N-methyl p	erfluorooctanesulfonamidoaceti	c acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)		1.0		2.40	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		2.64	
Perfluorohe	exanesulfonic acid (PFHxS)		1.0		1.07	
Perfluorohe	exanoic acid (PFHxA)		1.0		4.39	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluorood	ctanesulfonic acid (PFOS)		2.0		ND	
Perfluorood	ctanoic acid (PFOA)		1.0		4.51	
Perfluorote	tradecanoic acid (PFTDA)		1.0		ND	
Perfluorotri	decanoic acid (PFTrDA)		2.0		ND	
Perfluorour	ndecanoic acid (PFUnDA)		1.0		ND	

Comments:

Approved by:

Sadia Mineen

Approval date: 01/27/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001851002

Method: EPA 537.1 - PFAS

Date Received:

01/21/2021

Date Collected: 01/21/2021

FB006-0003-RW1 Field ID: Submitted By: Shawn Lowman Date Analyzed: 01/25/2021 **Contaminant** RL MCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 ND Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 ND Perfluorohexanoic acid (PFHxA) 1.0 ND Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 ND Perfluorotetradecanoic acid (PFTDA) 1.0 ND Perfluorotridecanoic acid (PFTrDA) 2.0 ND Perfluoroundecanoic acid (PFUnDA) 1.0 ND

Comments:

Approved by:

Sadia Muneen

Approval date: 01/27/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

Send Report to:	State of Mai MDH - Laboratories A		mperature Blank: 0.0 °C			
	Division of Environmental Chemistry ORGANICS ANALYTICAL LABORATORY 1770 Ashtand Avenue BALTIMORE, MARYLAND 21205					
	ABORATORY ANALY.	SIS REQUEST FORM				
	Please write	e legibly	0			
Bottle No.: 006-0003-7714 p	Plant/Site Name: Hay	Stead Stealing Well 35	County: Carroll			
Location: Plant	Sample S	ource: 1960 type for he	La Hampstead			
Collector/ID: Shown Lown		Phone No.:	40.1			
County System No.	0 6 0 0 0 3	Plant No. Date Coffected	3 / Sd5 (am/pm Time Collected			
Field Data: pH	Free CI:	Tot	al CI:			
□ Private □ Community □ Non-Community	Stream Dis Soil/Sediment Wa	urce (water) stribution (treated) ster Treatment Plant POE	□ Oil □ Solid □ Other			
□ Other	PDES RCRA	□ CWA □ CERCLA	☐ Consumer Products			
Test Requested	Field & Trip Blank	Preservative Used	Comment			
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	□ Sodium thiosulfate	Comment			
□ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate				
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate				
EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite				
EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate				
EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride				
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate				
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate				
EPA Method 8260 (VOGs) \$37./	Krist But	M Fazna				
E21001851003 Received: 01/21/2021 EPA 537.1 Organics S5 006-0003-TP14	E21001851004 Received: 01/21/2021 Organics 당당					
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emarks:						

Date Reported:

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•Fax: (443) 681-4507

Lab Supervisor:





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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001851003

Method: EPA 537.1 - PFAS

Date Received: 01/21/2021

Date Collected: 01/21/2021

Field ID: 006-0003-TP14 Submitted By: Shawn Lowman Date Analyzed: 01/23/2021 Contaminant <u>RL</u> MCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 ND Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 1.01 Perfluorohexanoic acid (PFHxA) 1.0 ND Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 1.29 Perfluorotetradecanoic acid (PFTDA) 1.0 ND

Comments:

Approved by: Sacia Muneer

Approval date: 01/27/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Telephone: (443) 681 -3857

Perfluorotridecanoic acid (PFTrDA)

Perfluoroundecanoic acid (PFUnDA)

Fax: (443) 681-4507

Page 3 of 6

2.0

1.0

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ND

ND





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001851004

Method: EPA 537.1 - PFAS

Date Received: 01/21/2021

Date Collected: 01/21/2021

Field ID: FB006-0003-TP14 Submitted By: Shawn Lowman Date Analyzed: 01/23/2021 Contaminant RL MCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 ND Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 ND Perfluorohexanoic acid (PFHxA) 1.0 ND Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 ND Perfluorotetradecanoic acid (PFTDA) 1.0 ND Perfluorotridecanoic acid (PFTrDA) 2.0 ND Perfluoroundecanoic acid (PFUnDA) 1.0 ND

Comments:

Approved by:

Approval date: 01/27/2021

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Page 4 of 6

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Temperature Blank: 0.0 °C Send Report to: State of Maryland MDH - Laboratories Administration Division of Environmental Chemistry ORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue BALTIMORE, MARYLAND 21205 LABORATORY ANALYSIS REQUEST FORM Please write legibly Bottle No .: 006 - 0003-RW14- W Plant/Site Name: Hongstead Well 33 Row County: Corroll Sample Source: 1960 Uyor Forde Ln Hampstead 00765L Phone No.: 410 294-7884 PWSID County Plant No. Free CI: Field Data: pH Sample Type: Drinking water Source (water) □ Oil □ Landfill □ Private □ Stream ☐ Distribution (treated) □ Solid Community ☐ Soil/Sediment ☐ Water Treatment Plant POE □ Other _ ☐ Non-Community ☐ NPDES □ CWA □ CERCLA □ Consumer Products Specify Program: SDWA □ RCRA □ Other Test Requested Field & Trip Blank Preservative Used Comment ☐ EPA Method 504.1 (EDB/DBCP) ☐ Field Blank ☐ Sodium thiosulfate EPA Method 508 [Aroclors (SCAN □ Sodium thiosulfate ☐ Field Blank only) & Toxaphene] ☐ EPA Method 515.3 (Herbicides) ☐ Field Blank ☐ Sodium thiosulfate ☐ EPA Method 525.2 (Pesticides) ☐ Field Blank ☐ HCL (6N) ☐ Sodium sulfite ☐ EPA Method 531.2 (Carbamates) ☐ Field Blank ☐ Potassium Citrate monobasic ☐ Sodium thiosulfate ☐ EPA Method 552.2 (Haloacetic acids) ☐ Field Blank ☐ Ammonium chloride ☐ EPA Method 8270 (Semi-Volatiles) ☐ Sodium thiosulfate ☐ Pesticides ☐ Aroclors ☐ EPA Method 524.2 (Volatiles) ☐ Field Blank [] 1:1 HCL 1:1 HCL + Ascorbic acid □ VOCS ☐ Trip Blank ☐ Sodium thiosulfate EPA Method 8260 (VOCs) \$37./ Field Black EX Trizmo TULKAT IKA UDU DUK DIK BERKADA ANG BADA DAN DAN DIKETAK DIKETAK E21001851005 E21001851006 Received: 01/21/2021 EPA 537.1 Received: 01/21/2021 EPA 537.1 006-0003-RW14 Organics 132 Organics FB006-0003-RV

Remarks:		
ab Supervisor;	Date Reported:/	1
1909 100		

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•Fax: (443) 681-4507





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001851005

Method: EPA 537.1 - PFAS

Date Received:

01/21/2021

Date Collected: 01/21/2021

Field ID:	006-0003-RW14-\	Submitted By: Shawn I	Lowman	Date Analyzed:	01/26/2021
Contamin	ant		RL	MCL	Result
1-chloroei	cosafluoro-3-oxaundecane-1	-sulfonic acid (11CI-PF3OUdS	2.0		ND
4,8-dioxa-	3H-perfluorononanoic acid (A	DONA)	1.0		ND
9-chlorohe	exadecafluoro-3-oxanonane-	l-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluor	opropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl pe	rfluorooctanesulfonamidoace	tic acid (N-EtFOSAA)	2.5		ND
N-methyl p	perfluorooctanesulfonamidoa	cetic acid (N-MeFOSAA)	3.0		ND
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND
Perfluorod	ecanoic acid (PFDA)		1.0		ND
Perfluorod	odecanoic acid (PFDoA)		2.0		ND
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)		1.0		ND
Perfluoroh	exanoic acid (PFHxA)		1.0		ND
Perfluoron	onanoic acid (PFNA)		2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		ND
Perfluoroo	ctanoic acid (PFOA)		1.0		ND
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Approval date: 01/27/2021

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001851006

Method: EPA 537.1 - PFAS

Date Received: 01/21/2021

Date Collected: 01/21/2021

Field ID: FB006-0003-RW1 Submitted By: Shawn Lowman Date Analyzed: 01/26/2021

Field ID:	FB006-0003-RW1	Submitted By: Shawn	Lowman	Date Analyzed:	01/26/2021
Contamin	<u>ant</u>		RL	MCL	Result
1-chloroei	cosafluoro-3-oxaundecane-1-su	ılfonic acid (11CI-PF3OUd	S) 2.0		ND
4,8-dioxa-	3H-perfluorononanoic acid (AD	ONA)	1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane-1-s	ulfonic acid (9CI-PF3ONS	2.0		ND
Hexafluor	ppropylene oxide dimer acid (HI	FPO-DA)	1.0		ND
N-ethyl pe	rfluorooctanesulfonamidoacetic	acid (N-EtFOSAA)	2.5		ND
N-methyl p	perfluorooctanesulfonamidoace	tic acid (N-MeFOSAA)	3.0		ND
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND
Perfluorod	ecanoic acid (PFDA)		1.0		ND
Perfluorod	odecanoic acid (PFDoA)		2.0		ND
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND
Perfluoroh	exanesulfonic acid (PFHxS)		1.0		ND
Perfluoroh	exanoic acid (PFHxA)		1.0		ND
Perfluoron	onanoic acid (PFNA)		2.0		ND
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		ND
Perfluoroo	ctanoic acid (PFOA)		1.0		ND
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND

Comments:

Approved by:

Approval date: 01/27/2021

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Send Report to:	State of Maryl. MDH - Laboratories Adr Division of Environmen ORGANICS ANALYTICA 1770 Ashland Av. BALTIMORE, MARY	ministration tal Chemistry L LABORATORY enue	Temperatur	e Blank: <u> 1-0</u> °C KB 1 21 21
LA	ABORATORY ANALYS. Please write I			× 1
Bottle No.: 015-0002 + PI	03R ant/Site Name: TOC	UN OF POOLE	S V/County:	MONT
	4W Sample So			POOLESVILLE Town or City
		Street		
Collector/IDA ~ OSE OHG	AY 8841V	6- Phone	No.: 41	04467324
O (S O O O O O O O O O O O O O O O O O	/50002 PWSID	TPO3R 1/3 Plant No. Date Colle	//202 / ecled	7:25 Gallerin Time Collected
Field Data: pH OG5	Free CI:	9, /	Total CI:	0,/
Sample Type: Derinking water	Stream Dis	rce (water) tribution (treated) er Treatment Plant POE	□ Otl	lidnerConsumer Products
□ Other	S HAT: DI	T 5		Comment
Test Requested ☐ EPA Method 504.1 (EDB/DBCP)	Field & Trip Blank	Preservative Used Sodium thiosulfate		Comment
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate		
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite		
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate mon ☐ Sodium thiosulfate	obasic	
□ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride		
☐ EPA Method 8270 (Semi-Volatiles) ☐ PestIcides ☐ Aroclors		☐ Sodium thiosulfate		
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate		
□ EPA Method 8269 (VOCs) PFAS 5371/	FIELDBLANK	TRIS BASE	k.	
E21001858001 Received: 01/21/2021 EPA 537.1 Organics 015-0002-TP03	E2100185800 Received: 01/21/202 Organics			0
1 (100,00) 1 (100,00)				
L. LAN MORO II. AN L. SE SANCE III. D. Pastino III. III. III. III. III. III. III. II			1	
demarks:				
ab Supervisor:		_ D	ate Reported:	
●Phone:	(443) 681-3857 ORIGINAL - LA	•Fax: (443) 681-4507		S RECEIVED





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001858001

Method: EPA 537.1 - PFAS

Date Received:

01/21/2021

Date Collected: 01/21/2021

Field ID: 015-0002-TP03R Submitted By: Joseph Gay Date Analyzed: 01/26/2021 Contaminant **RL** MCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 7.17 Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 3.81 Perfluorohexanesulfonic acid (PFHxS) 1.0 17.21 Perfluorohexanoic acid (PFHxA) 1.0 7.46 Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 13.63 Perfluorooctanoic acid (PFOA) 1.0 10.63 Perfluorotetradecanoic acid (PFTDA) 1.0 ND Perfluorotridecanoic acid (PFTrDA) 2.0 ND Perfluoroundecanoic acid (PFUnDA) 1.0 ND

Comments:

Approved by:

Approval date: 01/27/2021

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001858002

Method: EPA 537.1 - PFAS

Date Received:

01/21/2021

Date Collected: 01/21/2021

Field ID:	FB015-0002-TP03	Submitted By: Jo	oseph Gay	Date Analy	yzed: 01/26/2021	
Contamin	ant		RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaundecane-1-s	sulfonic acid (11CI-PF3	OUdS) 2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid (AI	OONA)	1.0		ND	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)			ONS) 2.0		ND	
Hexafluord	opropylene oxide dimer acid (F	IFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamidoaceti	c acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonamidoac	etic acid (N-MeFOSAA	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFHxS)		1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFOS)		2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFTDA)		1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA)		1.0		ND	

Comments:

Approved by:

Approval date: 01/27/2021

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Send Report to:	State of M MDH - Laboratories Division of Environ ORGANICS ANALYTIC 1770 Ashland BALTIMORE, MA	nperature Blank: <u>ि॰</u> °(१८३ । २८	
	ABOHATOHY WAL	CHERLOUESTFORM	
	Please wri		
00-0003 1700	37	320	
Bottle No.: 015-0002-710			County: MONT
Location: WELL 3 TREAT	Sample S	Source:Street	POOLES VICE
Collector/ID: OSEPHG	AY 884/ 16	Phone No.	410446 732
County System No.	150002 PWSiD	7 / 6 37 // 51 /20 Plant No. Date Collected	92 / 7235 ain)pur Time Collected
Field Data: pH 06,6	Free Cl	♪。ヲ・ To	tal CI: O. 7
□ Community □ Non-Community		istribution (treated) √ater Treatment Plant POE □ CWA □ CERCLA	□ Solid □ Other □ Consumer Products
Test Requested	Field & Trip Blank	D	
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	Preservative Used ☐ Sodium thiosulfate	Comment
☐ EPA Method 508 [Aroclors (SCAN	☐ Field Blank	☐ Sodium thiosulfate	
only) & Toxaphene]			
☐ EPA Method 515.3 (Herbicides) ☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ Sodium thiosulfate	
LI A Metriou 325.2 (Festicides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasi☐ Sodium thiosulfate	С
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
□ EPA Method 524.2 (Volatiles) □ VOCS □ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
□ EPA Method 8260 (VOCS) PFAS 537.1	FIELDBLANK	1 RISI BASE TRIS HEL	
E21001858003 Received: 01/21/2021 EPA 537.1 Organics 015-0002-TP03	E2100185800 Received: 01/21/202 Organics	4 1 EPA 537.1 FB015-0002-TP	
1			

Remarks: LARGEAMINT OF AIR IN SAMIE TAP

Date Reported: ____/___/

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•Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

Lab Supervisor:

D

SAMPLE TESTED AS RECEIVED





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001858003

Method: EPA 537.1 - PFAS

Date Received: 01/21/2021

Date Collected: 01/21/2021

015-0002-TP03T	Submitted By:	Joseph Gay		Date Analyzed:	01/23/2021
<u>ant</u>			RL	MCL	Result
cosafluoro-3-oxaundecane-1-s	ulfonic acid (11Cl-P	F3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)			1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)			2.0		ND
propylene oxide dimer acid (H	FPO-DA)		1.0		ND
fluorooctanesulfonamidoaceti	c acid (N-EtFOSAA))	2.5		ND
erfluorooctanesulfonamidoace	etic acid (N-MeFOS	4A)	3.0		ND
utanesulfonic acid (PFBS)			1.0		7.06
ecanoic acid (PFDA)			1.0		ND
odecanoic acid (PFDoA)			2.0		ND
eptanoic acid (PFHpA)			2.0		4.08
exanesulfonic acid (PFHxS)			1.0		18.84
exanoic acid (PFHxA)			1.0		7.23
onanoic acid (PFNA)			2.0		ND
ctanesulfonic acid (PFOS)			2.0		14.45
ctanoic acid (PFOA)			1.0		10.97
tradecanoic acid (PFTDA)			1.0		ND
decanoic acid (PFTrDA)			2.0		ND
ndecanoic acid (PFUnDA)			1.0		ND
	cosafluoro-3-oxaundecane-1-s BH-perfluorononanoic acid (AE xadecafluoro-3-oxanonane-1-s propylene oxide dimer acid (H fluorooctanesulfonamidoacetic erfluorooctanesulfonamidoacetic erfluorooc	cosafluoro-3-oxaundecane-1-sulfonic acid (11CI-P BH-perfluorononanoic acid (ADONA) xadecafluoro-3-oxanonane-1-sulfonic acid (9CI-Pl propylene oxide dimer acid (HFPO-DA) fluorooctanesulfonamidoacetic acid (N-EtFOSAA) erfluorooctanesulfonamidoacetic acid (N-MeFOSA) utanesulfonic acid (PFBS) ecanoic acid (PFDA) odecanoic acid (PFHpA) exanesulfonic acid (PFHxA) onanoic acid (PFNA) ctanesulfonic acid (PFOS) ctanoic acid (PFOA) tradecanoic acid (PFTDA) decanoic acid (PFTDA)	cosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) BH-perfluorononanoic acid (ADONA) xadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) propylene oxide dimer acid (HFPO-DA) fluorooctanesulfonamidoacetic acid (N-EtFOSAA) erfluorooctanesulfonamidoacetic acid (N-MeFOSAA) utanesulfonic acid (PFBS) ecanoic acid (PFDA) odecanoic acid (PFDA) exanesulfonic acid (PFHxS) exanoic acid (PFHxA) onanoic acid (PFNA) otanesulfonic acid (PFOS) etanoic acid (PFOA) tradecanoic acid (PFTDA) decanoic acid (PFTDA)	cosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.	cosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) 3H-perfluorononanoic acid (ADONA) Axadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) 2.0 propylene oxide dimer acid (HFPO-DA) fluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 erfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 utanesulfonic acid (PFBS) acanoic acid (PFDA) becanoic acid (PFDA) 2.0 exanesulfonic acid (PFHxS) exanesulfonic acid (PFHxS) acanoic acid (PFNA) conanoic acid (PFNA) conanoic acid (PFOS) ctanesulfonic acid (PFOA) 1.0 ctanesulfonic acid (PFOS) ctanesulfonic acid (PFOA) 1.0 ctanesulfonic acid (PFOA) 1.0 ctanesulfonic acid (PFOA) 1.0 ctanesulfonic acid (PFOA) 1.0 ctanesulfonic acid (PFTDA) 1.0 ctanesulfonic acid (PFTDA) 2.0 ctanesulfonic acid (PFTDA) 1.0 ctanesulfonic acid (PFTDA) 2.0

Comments:

Approved by: Sacra Muneca

Approval date: 01/27/2021

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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001858004

Method: EPA 537.1 - PFAS

Date Received:

01/21/2021

Date Collected: 01/21/2021

FB015-0002-TP03 Field ID: Submitted By: Joseph Gay Date Analyzed: 01/23/2021 Contaminant RLMCL Result 1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 2.0 ND 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 1.0 ND 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) 2.0 ND Hexafluoropropylene oxide dimer acid (HFPO-DA) 1.0 ND N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND Perfluorobutanesulfonic acid (PFBS) 1.0 ND Perfluorodecanoic acid (PFDA) 1.0 ND Perfluorododecanoic acid (PFDoA) 2.0 ND Perfluoroheptanoic acid (PFHpA) 2.0 ND Perfluorohexanesulfonic acid (PFHxS) 1.0 ND Perfluorohexanoic acid (PFHxA) 1.0 ND Perfluorononanoic acid (PFNA) 2.0 ND Perfluorooctanesulfonic acid (PFOS) 2.0 ND Perfluorooctanoic acid (PFOA) 1.0 ND Perfluorotetradecanoic acid (PFTDA) 1.0 ND Perfluorotridecanoic acid (PFTrDA) 2.0 ND Perfluoroundecanoic acid (PFUnDA) 1.0 ND

Comments:

Approved by:

Approval date: 01/27/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Telephone: (443) 681 -3857

Fax: (443) 681-4507

Page 4 of 4

S:\EnviroFinal-Organics-PFAS.r

					F	emperature Bla	inkt C
	Sen	d Report to:	IN ADRC	Spir of Marviand (AT Laboratories Administrative (ES AMALYTIC AL LAT (770 Addinial Asymic (AL DMORE) MARVES (ED)	non goratory	ي	2 1/22/2/
			×	55-10-100			
				Plents write legibly	O 7	County	Carrett
4		ttle No.: 0[1-6230-No] P	lant/Site	Name: 12/parte	TOWN PARKS COUNTY	County.	wa or City
	Lo	cation: POEQ. WTC		Sample Source			
7.5		ollector/ID: T.414 63631	1.1		Phone N	in aloufy	67436
jes L	Co	Silector/ID: 1744			Tide Date Collice	12021	1 30 (mypm Time Collected
	0	County System No.	11.1.1.1.1	Pive CI:	THE Date Control	Total Cli	4
	F	leld Data: pH 7.5				oil	1 1
	S	iample Type: Drinking water Private	□ Land □ Strea □ Soil/	in Distrib	button (treated) Treatment Plant POE		id
		□ Non-Community	מיזא ב		□ CWA □ CER	CLA G	Consumer Products
		Specify Program: USDWA L			Preservative Use	d	Comment
	i)	Test Requested		Field & Trip Blank	th Sodium thiosulate		
		EPA Method 504.1 (EDB/DBCP)		Field Blank	☐ Sodium thicsultate		
		EPA Method 508 [Aroclors (SCAN pnly) & Toxaphene]	4 117	FIGIO DIGIN	C) Sodium Unicsulfate		
(0	Ø.	EPA Method 515.3 (Herbicides)		Field Blank	CIFICL (6N)		
		PEPA Method 525.2 (Pesticides)		Field Blank	13 Sodium suffic		
		EPA Method 531.2 (Carbamates		Field Blank	C Porposition Citrate m	onobasic	
		L W. Waller	V08-5-7	Field Blank	☐ Ammonium chloride		
		EPA Method 552.2 (Haloscotto a EPA Method 8270 (Semi-Volatila		THE COMMENT OF THE PROPERTY OF	() Sodium thirisultate		
		Pasticides Li Arociors		To Dlauk	MACHIGE 1612"	49.	3
		EPA Molhod 524.2.(Volatiles) (37.112	Pfeld Blank 3 Trip Blank	1 1 HCL + Ascorbic	acid	
		☐ EPA Method B260 (VOCs)		YE LUBRIC SHIP	1 ==	<u> </u>	
	į	E21001866001 Received: 01/22/2021 EPA 504 1: Pesticides 01102307P	1 01	E210018660 Received, 01/220 pessicides	002 0021 EPA 504 1 01002301P01FE	E21001 Received: Pesticides	866003 01/22/2021 EPA 515.3 01/02301P01
		E21001866004 Received: 01/22/2021 EPA 525.2 Pesticides 0110230TP0		E21001865(Received o 1/22/Pesucides	1005 1005 10021 EPA 531.2 1110230TPO1	E2100	1867001 : 01/22/2021 EPA 537.1 S S 0110230TP01
			7 4				
	1	Remarks:				Date Rep	orted://
	(1)	Lab Supervisor:		1111/1	•Fax: (443) 681		
					ALMK: LUMOTON		0.000
			•Phon	e: (443) 681-3857	VIOLABORATORY	COLD STREET IN FRINCE	SCREED AS RECEIVED
		WOHee (osue)	•Phon	e: (443) 681-3857 ORIGINA	AL - LABORATORY	SAMPLE TE	STED AS RECEIVE

to





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001867001

Method: EPA 537.1 - PFAS

Date Received:

01/22/2021

Date Collected: 01/21/2021

Field ID: 0110230TP01

Submitted By: HOLT

Date Analyzed: 01/23/2021

Tida is: Strong of the strong		Dute Athai	yzca. 01/23/2021	
Contaminant	<u>RL</u>	MCL	Result	
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND	
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorobutanesulfonic acid (PFBS)	1.0		ND	
Perfluorodecanoic acid (PFDA)	1.0		ND	
Perfluorododecanoic acid (PFDoA)	2.0		ND	
Perfluoroheptanoic acid (PFHpA)	2.0		ND	
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND	
Perfluorohexanoic acid (PFHxA)	1.0		ND	
Perfluorononanoic acid (PFNA)	2.0		ND	
Perfluorooctanesulfonic acid (PFOS)	2.0		ND	
Perfluorooctanoic acid (PFOA)	1.0		ND	
Perfluorotetradecanoic acid (PFTDA)	1.0		ND	
Perfluorotridecanoic acid (PFTrDA)	2.0		ND	
Perfluoroundecanoic acid (PFUnDA)	1.0		ND	

Comments:

Approved by:

Sadia Muneca

Approval date: 01/27/2021

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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001867002

Method: EPA 537.1 - PFAS

Date Received: 01/22/2021

Date Collected: 01/21/2021

Field ID: 0110230TP01FB Submitted By: HOLT Date Analyzed: 01/23/2021

rield ib.	Submitted by: 110L1		Date Allai	yzed: 01/23/2021	
Contami	nant .	<u>RL</u>	MCL	Result	
1-chloroe	icosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	-3H-perfluorononanoic acid (ADONA)	1.0		ND	
9-chloroh	exadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dimer acid (HFPO-DA)	1.0		ND	
N-ethyl pe	erfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl	perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	outanesulfonic acid (PFBS)	1.0		ND	
Perfluoro	decanoic acid (PFDA)	1.0		ND	
Perfluoro	dodecanoic acid (PFDoA)	2.0		ND	
Perfluoroh	neptanoic acid (PFHpA)	2.0		ND	
Perfluoroh	nexanesulfonic acid (PFHxS)	1.0		ND	
Perfluoroh	nexanoic acid (PFHxA)	1.0		ND	
Perfluoror	nonanoic acid (PFNA)	2.0		ND	
Perfluoro	octanesulfonic acid (PFOS)	2.0		ND	
Perfluoro	octanoic acid (PFOA)	1.0		ND	
Perfluorot	etradecanoic acid (PFTDA)	1.0		ND	
Perfluorot	ridecanoic acid (PFTrDA)	2.0		ND	
Perfluorou	ındecanoic acid (PFUnDA)	1.0		ND	

Comments:

Approved by: Sacia Muneca

Approval date: 01/27/2021

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Page 2 of 4

Send Report to;	State of Mai MDH - Laboratories / Division of Environm ORGANICS ANALYTIC 1770 Ashland A	Administration ental Chemistry !AL LABORATORY	mperature Blank: _ c ° c //22/2
	BALTIMORE, MAR		
11.0.1.0	Please write	1,70,00	- 4
Bottle No.: 011-0204-7901 p	lant/Site Name: beach	SoneMIn Camp	County: Gastett
Location: POLO UN	Sample S	ource:	Town or City
Collector/ID: 1401+ 6323	<u>1)</u> 4-	Phone No.:	4104467432
County System No.	PWSID	Plant No. Date Collected	Z ISOU and pin Time Collected
Field Data: pH 7,2	Free Cl:	Total Total	al CI:
Sample Type: Drinking water Private	Stream Dis	urce (water) stribution (treated) iter Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: SDWA D N	PDES 🗆 RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N)	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Sodium sulfite ☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
EPA Method 524.2 (Volatiles) \$3.7.7 VOCS	© Field Blank □ Trip Blank ₽.ш.	☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs)	0000		
E21001867003 Received: 01/22/2021 EPA 537.1 Organics 01/0204TP01	E2100186700 Received: 01/22/202 Organics 3 6	4 21 EPA 537.1 0110204TP01FB	
marks:			
b Supervisor; • Phone: (443) 681-3857		orted:
H98 (02/18)	ORIGINAL - LAI	BORATORY	TESTED AS RECEIVED
		Meraphani	- Markovas RCCC(VED

(4)





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001867003

Method: EPA 537.1 - PFAS

Date Received:

Date Collected: 01/21/2021

Field ID:	0110204TP01	Submitted By: HOLT		Date Analy	zed: 01/23/2021	
Contamin	ant		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaund	decane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononand	oic acid (ADONA)	1.0		ND	
9-chlorohe	xadecafluoro-3-oxa	nonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluord	propylene oxide dir	ner acid (HFPO-DA)	1.0		ND	
N-ethyl per	rfluorooctanesulfon	amidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	erfluorooctanesulfo	namidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)	1.0		ND	
Perfluorod	ecanoic acid (PFDA	\)	1.0		ND	
Perfluorod	odecanoic acid (PF	DoA)	2.0		ND	
Perfluoroh	eptanoic acid (PFH _I	pA)	2.0		ND	
Perfluoroh	exanesulfonic acid	(PFHxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHx	A)	1.0		ND	
Perfluoron	onanoic acid (PFNA	\)	2.0		ND	
Perfluoroo	ctanesulfonic acid (PFOS)	2.0		ND	
Perfluorood	ctanoic acid (PFOA)	1.0		ND	
Perfluorote	tradecanoic acid (P	PFTDA)	1.0		ND	
Perfluorotri	decanoic acid (PFT	rDA)	2.0		ND	
Perfluorour	ndecanoic acid (PF	UnDA)	1.0		ND	

Comments:

Approved by:

Approval date: 01/27/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001867004

Method: EPA 537.1 - PFAS

Date Received: 01/22/2021 Date Collected: 01/21/2021

Field ID:	0110204TP01FB	Submitted By: HOLT		Date Analy	zed: 01/23/2021	
Contamin	<u>iant</u>		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaundeca	ne-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic ad	cid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanona	ane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dimer a	acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamid	oacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfonam	idoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFB	S)	1.0		ND	
Perfluorod	ecanoic acid (PFDA)		1.0		ND	
Perfluorod	odecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFF	lxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFO	S)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFTD	A)	1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA))	2.0		ND	
Perfluorou	ndecanoic acid (PFUnD	4)	1.0		ND	

Comments:

Approved by:

Approval date: 01/27/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 4.0 °C

TY 1/21/21

L./	ABORATORY ANALYSI Please write le		
Bottle No.: 011-0008-702 PI	ant/Site Name: Oakl	and-Bradley Ln	County: Garrell
Location: POEO WN		W	
Collector D: Holf 632.	412	Phone No.:	4104467432
County System No.	1000X	Plant No. Date Collected	Z (/ 4(00 am/pm)
Field Data: pH 711	Free CI:	.Z Tota	ICI: 1,4
Sample Type:	Stream Dist	rce (water) ribution (treated) er Treatment Plant POE	□ Oil □ Solid □ Other □ Consumer Products
□ Other			
Test Requested ☐ EPA Method 504.1 (EDB/DBCP)	Field & Trip Blank ☐ Field Blank	Preservative Used ☐ Sodium thiosulfate	Comment
☐ EPA Method 508 [Aroclors (SCAN	☐ Field Blank	☐ Sodium thiosulfate	
only) & Toxaphene]	LI FIELD DIGITA	- Sociali linosaliate	
☐ EPA Method 51,5.3 (Herbicldes)	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
DEPA Method 524.2 Wolatiles) 537.	□ Trield Blank □ Trip Blank 8:44:€	☑1:1 HGL TV ZMY ☐1:1 HGL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs) —		E:	
E21001872001 Received: 01/25/2021 EPA 537.1 Organics 0110008TP02	E2100187200 Received 01/25/202 Organics	2	
8			
D. Brazille			
1) viac			
Remarks:	J		
HEALT. THE		_	20 00
Lab Supervisor:		Date Re	ported:/
●Phone:	(443) 681-3857 ORIGINAL - LA	•Fax: (443) 681-4507	





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001872001

Method: EPA 537.1 - PFAS

Date Received: 01/25/2021 Date Collected: 01/21/2021

Field ID: 0110008TP02 Submitted Bv: Holt Date Analyzed: 01/26/2021

rieid iD:	OHOOO81PO2 Submitted By:	Holt	Date Analy	/zea: 01/26/2021	
Contamir	<u>nant</u>	<u>RL</u>	MCL	Result	
1-chloroei	cosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-	PF3OUdS) 2.0		ND	
4,8-dioxa-	3H-perfluorononanoic acid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-l	PF3ONS) 2.0		ND	
Hexafluor	opropylene oxide dimer acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamidoacetic acid (N-EtFOSA	۹) 2.5		ND	
N-methyl	perfluorooctanesulfonamidoacetic acid (N-MeFO	SAA) 3.0		ND	
Perfluorob	outanesulfonic acid (PFBS)	1.0		ND	
Perfluorod	lecanoic acid (PFDA)	1.0		ND	
Perfluorod	lodecanoic acid (PFDoA)	2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)	2.0		ND	
Perfluoroh	exanesulfonic acid (PFHxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)	1.0		ND	
Perfluoron	onanoic acid (PFNA)	2.0		ND	
Perfluoroo	ctanesulfonic acid (PFOS)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)	1.0		ND	
Perfluorote	etradecanoic acid (PFTDA)	1.0		ND	
Perfluorotr	idecanoic acid (PFTrDA)	2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA)	1.0		ND	

Comments:

Approved by:

Approval date: 01/27/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001872002

Method: EPA 537.1 - PFAS

Date Received:

01/25/2021

Date Collected: 01/21/2021

Field ID:	FB0110008TP02	Submitted By: Holt		Date Analyzec	d: 01/26/2021
Contamin	<u>ant</u>		<u>RL</u>	MCL	Result
1-chloroeid	cosafluoro-3-oxaundecane-	1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid	(ADONA)	1.0		ND
9-chlorohe	xadecafluoro-3-oxanonane	-1-sulfonic acid (9CI-PF3ONS)	2.0		ND
Hexafluoro	propylene oxide dimer acid	I (HFPO-DA)	1.0		ND
N-ethyl per	fluorooctanesulfonamidoad	cetic acid (N-EtFOSAA)	2.5		ND
N-methyl p	erfluorooctanesulfonamido	acetic acid (N-MeFOSAA)	3.0		ND
Perfluorob	utanesulfonic acid (PFBS)		1.0		ND
Perfluorode	ecanoic acid (PFDA)		1.0		ND
Perfluorodo	odecanoic acid (PFDoA)		2.0		ND
Perfluorohe	eptanoic acid (PFHpA)		2.0		ND
Perfluorohe	exanesulfonic acid (PFHxS)	1.0		ND
Perfluorohe	exanoic acid (PFHxA)		1.0		ND
Perfluorono	onanoic acid (PFNA)		2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)		2.0		ND
Perfluorood	ctanoic acid (PFOA)		1.0		ND
Perfluorote	tradecanoic acid (PFTDA)		1.0		ND
Perfluorotri	decanoic acid (PFTrDA)		2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)		1.0		ND

Comments:

Approval date: 01/27/2021

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Send Report to:	State of Maryl MDH - Laboratories Adh Division of Environmen ORGANICS ANALYTICA 1770 Ashland Avo BALTIMORE, MARY	ministration tal Chemistry L LABORATORY coue	nperature Blank: 1.0 °C TY 1/24/2
1.1	ABORATORY ANALYS	IS REQUEST FORM	
	Please write l	agibly	
Bottle No.: 014-000 - TPO \ PI	ant/Site Name: Tass	of Betterlow	County: Kert
Location: WTP SAmple	Sample So	urce: CHURCH Alley	Botterton
Collector MD: HINER 109	987SH	Phone No.:	443-326-6449
County System No.		Plant No. Date Collected	Time Collected
Field Data: pH 7.07	Free CI:	67 Tot	tal CI: 1.76
Sample Type: Drinking water Private Community Non-Community	Stream 🗆 Dis	rrce (water) tribution (treated) ter Treatment Plant POE CWA CERCLA	□ Oil □ Solid □ Other
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☑ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasi☐ Sodium thiosulfate	ic
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles)☐ Pesticides☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	□ Field Blank □ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorblc acid ☐ Sodium thiosulfate	
EPA Method 9200 (VOCs) 537. (& FICIO BIANK	BAtch Color - Blue	
E21001874001 Received: 01/25/2021 EPA 537.1 Organics SS 0140001TP01	E2100187400 Received: 01/25/20; Organics	AIWIIIIII	
17 1977 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Remarks:	- L		
Lab Supervisor:		Dot. T	Reported://
	: (443) 681-3857 ORIGINAL - L	•Fax: (443) 681-4507	
3000 \$1. 00			





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001874001

Method: EPA 537.1 - PFAS

Date Received:

01/25/2021

Date Collected: 01/21/2021

Field ID:	0140001TP01	Submitted By:	Hiner		Date Analyzed	: 01/26/2021
Contamin	ant			RL	MCL	Result
1-chloroeid	osafluoro-3-oxaundecane	-1-sulfonic acid (11Cl-Pl	F3OUdS)	2.0		ND
4,8-dioxa-3	BH-perfluorononanoic acid	(ADONA)		1.0		ND
9-chlorohe	xadecafluoro-3-oxanonan	e-1-sulfonic acid (9CI-PI	F3ONS)	2.0		ND
Hexafluoro	propylene oxide dimer aci	d (HFPO-DA)		1.0		ND
N-ethyl per	fluorooctanesulfonamidoa	cetic acid (N-EtFOSAA)		2.5		ND
N-methyl p	erfluorooctanesulfonamid	pacetic acid (N-MeFOSA	₹A)	3.0		ND
Perfluorob	utanesulfonic acid (PFBS)			1.0		ND
Perfluorode	ecanoic acid (PFDA)			1.0		ND
Perfluorode	odecanoic acid (PFDoA)			2.0		ND
Perfluoroh	eptanoic acid (PFHpA)			2.0		ND
Perfluorohe	exanesulfonic acid (PFHx	5)		1.0		ND
Perfluorohe	exanoic acid (PFHxA)			1.0		ND
Perfluoron	onanoic acid (PFNA)			2.0		ND
Perfluorood	ctanesulfonic acid (PFOS)			2.0		ND
Perfluorood	ctanoic acid (PFOA)			1.0		ND
Perfluorote	tradecanoic acid (PFTDA)			1.0		ND
Perfluorotri	decanoic acid (PFTrDA)			2.0		ND
Perfluorour	ndecanoic acid (PFUnDA)			1.0		ND

Comments:

Approved by:

Approval date: 01/27/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Page 1 of 2





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001874002

Method: EPA 537.1 - PFAS

Date Received:

01/25/2021

Date Collected: 01/21/2021

Field ID:

Field ID:	FB0140001TP01	Submitted By: Hiner		Date Analy	yzed: 01/26/2021	
Contamin	<u>iant</u>		RL	MCL.	Result	
1-chloroei	cosafluoro-3-oxaundec	ane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic	acid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxano	nane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dime	acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonam	idoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfona	midoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	outanesulfonic acid (PF	BS)	1.0		ND	
Perfluorod	lecanoic acid (PFDA)		1.0		ND	
Perfluorod	lodecanoic acid (PFDo.	A)	2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PF	HxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PF	OS)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFT	DA)	1.0		ND	
Perfluorotr	idecanoic acid (PFTrD	A)	2.0		ND	
Perfluorou	ndecanoic acid (PFUnl	DA)	1.0		ND	

Comments:

Approved by:

Approval date: 01/27/2021

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Fax: (443) 681-4507

Page 2 of 2

Send Report to:	State of M. MDH - Laboratones Division of Environ ORGANICS ANALY*TI 1770 Ashland BALTIMORE, MA	Administration nental Chemistry CAL LABORATORY Avenue	Tempe	rature Blank: 40° 'C
L	ABORATORY ANALY		RM	
Bottle No.: 01 - 0013-TP6Z P	lant/Site Name:	tzmller	Co	unty: Garatt
Location: 1000 WN				Town or City
Collector/ID: Hot 632307	 	p	hone No.:	f10446743Z
County System No.) 0 0 3	OZ /	/ Z (/20 Z (12.70 (i) pin.
Fleld Data: pH 8,5	Free CI:	2,2	Total C	2,6
□ Non-Community □	Stream (1)		-	O Oil Other Consumer Products
Test Requested	Field & Trip Blank	Preservative	Used	Comment
EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	Godium thiosulfate		Comment
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate		
EPA Method 515.3 (Herbicides)	☐ Field Blank	19-80dium thiosulfate		
CPA Method 525.2 (Pesticides)	☐ Fleld Blank	EACL(6N)		
EPA Method 531.2 (Carbamates)	☐ Field Blank	Polassium Cilrale	monobasic	
☐ EPA Method 552.2 (Haloacetic acids) ☐ EPA Method 6270 (Semi-Volatiles) ☐ Pesticides ☐ Aroctors	☐ Fleid Blank	☐ Ammonlum chlorid ☐ Sodium thiosulfate		
EPA Montiod 524.2 (Volatilos) 5373.	Field Blank Trip Blank C-RECU- Y-B	D Sodium thiosulfate	c acid	
다. 독무점 Method 8280 (VOCs)	Yellow-SAMP			
E21001871001 Received: 01/25/2021 EPA 504.1 Passicides 0110013TP02	E2100187100 Received: 01/25/20 Pesticides	02	E21001	871003 01/25/2021 EPA 515.3 01/0013TP02
E21001871004 Received: 01/28/2021 EPA 525.2 Posscides 0110013TP02	E2100187100 Received: 01/25/20)5		
E21001876001 Recglyet, 01/25/2021 EPA 637.1 Organics 01100137P02	E2100187600 Received: 01/25/20: Organica	2		
emarks:				
nb Supervisor:	· · · · · · · · · · · · · · · · · · ·		Date Reporte	d://
	443) 681-3857 ORIGINAL - LI	•Fax: (443) 681-45		

E3480011 F2100137

が開催制度 (12.50円) E210018/15 Activity (2.50円)

Counties:





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001876001

Method: EPA 537.1 - PFAS

Date Received:

01/25/2021

Date Collected: 01/21/2021

Field ID:	0110013TP02	Submitted By: Holt		Date Analyzed:	01/26/2021
Contamin	ant		RL	MCL	Result
1-chloroeid	cosafluoro-3-oxaur	decane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND
4,8-dioxa-	3H-perfluorononan	oic acid (ADONA)	1.0		ND
9-chlorohe	xadecafluoro-3-ox	anonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluord	propylene oxide d	mer acid (HFPO-DA)	1.0		ND
N-ethyl per	rfluorooctanesulfor	namidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl p	erfluorooctanesulf	onamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorob	utanesulfonic acid	(PFBS)	1.0		ND
Perfluorod	ecanoic acid (PFD	A)	1.0		ND
Perfluorod	odecanoic acid (P l	FDoA)	2.0		ND
Perfluoroh	eptanoic acid (PFI	IpA)	2.0		ND
Perfluoroh	exanesulfonic acid	(PFHxS)	1.0		ND
Perfluoroh	exanoic acid (PFH	xA)	1.0		ND
Perfluoron	onanoic acid (PFN	A)	2.0		ND
Perfluoroo	ctanesulfonic acid	(PFOS)	2.0		ND
Perfluoroo	ctanoic acid (PFO	A)	1.0		ND
Perfluorote	tradecanoic acid (PFTDA)	1.0		ND
Perfluorotri	idecanoic acid (PF	TrDA)	2.0		ND
Perfluorour	ndecanoic acid (PF	FUnDA)	1.0		ND

Comments:

Approved by:

Approval date: 01/27/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001876002

Method: EPA 537.1 - PFAS

Date Received:

01/25/2021

Date Collected: 01/21/2021

Field ID:	0110013TP02	Submitted By: Holt		Date Analy	zed: 01/26/2021	
Contamin	ant		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaund	lecane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononano	ic acid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxa	nonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluord	propylene oxide din	ner acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfona	amidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfo	namidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PFBS)	1.0		ND	
Perfluorod	ecanoic acid (PFDA)	1.0		ND	
Perfluorod	odecanoic acid (PFI	DoA)	2.0		ND	
Perfluoroh	eptanoic acid (PFHբ	pA)	2.0		ND	
Perfluoroh	exanesulfonic acid (PFHxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHx	A)	1.0		ND	
Perfluoron	onanoic acid (PF N A)	2.0		ND	
Perfluoroo	ctanesulfonic acid (f	PFOS)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	tradecanoic acid (P	FTDA)	1.0		ND	
Perfluorotr	idecanoic acid (PFT	rDA)	2.0		ND	
Perfluorou	ndecanoic acid (PFl	JnDA)	1.0		ND	

Comments:

Approved by:

Approval date: 01/27/2021

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Page 2 of 2

Send Report to:	State of Maryla MDH - Laboratories Adr Division of Environment ORGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARYI	ministration tal Chemistry L LABORATORY enue	oerature Blank: <u>3.0 °</u> c AF 1/28/21
LA	BORATORY ANALYS	IS REQUEST FORM	
Bottle No.: 061-0031-1101 PI	Please write le		County: Allegany
Location: POLO WY	Sample Sou	street	Town or City
Collector/ID: Holf 63230	1	Phone No.:	4/04467432
County System No.		Plant No. Date Collected	700 Al/pm Time Collected
Field Data: pH 7.1	Free CI: 0	Total	ci: 0,2
Private 🗆	Stream Dist	rce (water) gibution (treated) er Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: DSDWA D N	PDES RCRA	□ CWA □ CERCLA	☐ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
EPA Method 524.2 (Voletiles) 5 37. VOCB THMS PAS	☐ Trip Blank	□ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs)			,
E21001920001 Received: 01/28/2021 EPA 537.1 Organics 0010031TP01	E2100192000 Received: 01/28/20 Organics)2	





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001920001

Method: EPA 537.1 - PFAS

Date Received:

01/28/2021

Date Collected: 01/27/2021

ield ID: 0010031TP01 Submitted By: Holt Date Analyzed: 01/29/2021

Field ID:	0010031TP01	Submitted By: Holt		Date Analy	zed: 01/29/2021	
Contamin	<u>ant</u>		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaund	decane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-3	3H-perfluorononano	ic acid (ADONA)	1.0		ND	
9-chlorohe	xadecafluoro-3-oxa	nonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluoro	propylene oxide din	ner acid (HFPO-DA)	1.0		ND	
N-ethyl per	fluorooctanesulfona	amidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	erfluorooctanesulfo	namidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (l	PFBS)	1.0		ND	
Perfluorode	ecanoic acid (PFDA)	1.0		ND	
Perfluorodo	odecanoic acid (PFI	DoA)	2.0		ND	
Perfluorohe	eptanoic acid (PFHp	pA)	2.0		ND	
Perfluorohe	exanesulfonic acid (PFHxS)	1.0		ND	
Perfluorohe	exanoic acid (PFHx	A)	1.0		ND	
Perfluorono	onanoic acid (PFNA)	2.0		ND	
Perfluorood	ctanesulfonic acid (F	PFOS)	2.0		ND	
Perfluorood	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	tradecanoic acid (P	FTDA)	1.0		ND	
Perfluorotri	decanoic acid (PFT	rDA)	2.0		ND	
Perfluorour	ndecanoic acid (PFI	JnDA)	1.0		ND	

Comments:

Approved by: Sacia Mune

Approval date: 02/05/2021

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MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001920002

Method: EPA 537.1 - PFAS

Date Received:

01/28/2021

Date Collected: 01/27/2021

Field ID. FR0010031TP01 Submitted By: Holt Data Analyzadi 01/20/2021

Fleid ID:	FB00100311P01	Submitted By: Holt		Date Analy	zed: 01/29/2021	
Contamin	<u>ant</u>		RL	MCL	Result	
1-chloroeid	cosafluoro-3-oxaundec	ane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic	acid (ADONA)	1.0		ND	
9-chlorohe	xadecafluoro-3-oxano	nane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluoro	propylene oxide dimer	acid (HFPO-DA)	1.0		ND	
N-ethyl per	fluorooctanesulfonami	doacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	erfluorooctanesulfona	midoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	utanesulfonic acid (PF	BS)	1.0		ND	
Perfluorode	ecanoic acid (PFDA)		1.0		ND	
Perfluorode	odecanoic acid (PFDo/	4)	2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluorohe	exanesulfonic acid (PF	HxS)	1.0		ND	
Perfluorohe	exanoic acid (PFHxA)		1.0		ND	
Perfluorono	onanoic acid (PFNA)		2.0		ND	
Perfluorood	ctanesulfonic acid (PF0	OS)	2.0		ND	
Perfluorood	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	tradecanoic acid (PFT	DA)	1.0		ND	
Perfluorotri	decanoic acid (PFTrD/	A)	2.0		ND	
Perfluorour	ndecanoic acid (PFUnI	DA)	1.0		ND	

Comments:

Approved by:

Approval date: 02/05/2021

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Send Report to:	State of Mary MDH - Laboratories Ac Division of Environmer ORGANICS ANALYTICA 1770 Ashland Av BALTIMORE, MARY	lministration ntal Chemistry NL LABORATORY renue	perature Blank: 3.0 AF 1/28/
L	ABORATORY ANALYS	IS REQUEST FORM	
	Please write	legibly	
Bottle No.: 00 - 62 2 - 740 P		DIL Rose	٠ ٨١١
	ant/Site Name: 5100	a Rige Boys Comp	County:
Location: 10000	Sample So	urce:	Town or City
Collector/ID: Halt 637371	-		4104467432
County System No.	010212 PWSID	Plant No. Date Collected	ZOD Ju/pm Time Collecti
Field Data: pH	Free CI:	Tota	1 CI: 1, 0
Sample Type: Uprinking water	Landfill	rce (water)	□ Oil
		tribution (treated)	□ Solid
Community		er Treatment Plant POE	□ Other
□ Non-Community			
	7		
Specify Program: ♥SDWA □ N □ Other	PDES RCRA	□ CWA □ CERCLA	□ Consumer Product
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	□ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	□ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	2	☐ Sodium thiosulfate	
EPA Method 524-2 (Volatiles) 537.	Field Blank Trip Blank	BITHEL TRIZMA	
PPAS I INVIS	Lallon	☐ 1:1 HCL + Ascorbic acid☐ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs)	Vallor		
*			
E21001920003 Received: 01/28/2021 EPA 537.1 Organics 0010212TP01	E21001920004 Received: 01/28/202		





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001920003

Method: EPA 537.1 - PFAS

Date Received: 01/28/2021

Date Collected: 01/27/2021

Field ID:	0010212TP01	Submitted By: Holt		Date Anal	yzed: 01/30/2021
Contamin	ant		RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)			2.0		ND

1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	2.0	ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0	ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	2.0	ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0	ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5	ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0	ND
Perfluorobutanesulfonic acid (PFBS)	1.0	ND
Perfluorodecanoic acid (PFDA)	1.0	ND
Perfluorododecanoic acid (PFDoA)	2.0	ND
Perfluoroheptanoic acid (PFHpA)	2.0	ND
Perfluorohexanesulfonic acid (PFHxS)	1.0	ND
Perfluorohexanoic acid (PFHxA)	1.0	ND
Perfluorononanoic acid (PFNA)	2.0	ND
Perfluorooctanesulfonic acid (PFOS)	2.0	ND
Perfluorooctanoic acid (PFOA)	1.0	ND
Perfluorotetradecanoic acid (PFTDA)	1.0	ND
Perfluorotridecanoic acid (PFTrDA)	2.0	ND

Comments:

Approved by: Sacia Muneca

Approval date: 02/05/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Telephone: (443) 681 -3857

Perfluoroundecanoic acid (PFUnDA)

Fax: (443) 681-4507

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1.0

S:\EnviroFinal-Organics-PFAS.rl

ND





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001920004

Method: EPA 537.1 - PFAS

Date Received:

01/28/2021

Date Collected: 01/27/2021

eld ID: FB0010212TP01 Submitted By

Date Analyzed: 01/29/2021

Field ID:	FB0010212TP01	Submitted By: Holt		Date Analy	yzed: 01/29/2021	
Contamir	nant		RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaundeca	ane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic a	cid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanon	ane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dimer	acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonami	doacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl ı	oerfluorooctanesulfonan	nidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	outanesulfonic acid (PFE	3S)	1.0		ND	
Perfluoroc	lecanoic acid (PFDA)		1.0		ND	
Perfluoroo	lodecanoic acid (PFDoA	.)	2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFI	HxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroc	ctanesulfonic acid (PFC	PS)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFTI	DA)	1.0		ND	
Perfluoroti	ridecanoic acid (PFTrD <i>A</i>	N)	2.0		ND	
Perfluorou	ndecanoic acid (PFUnD	PA)	1.0		ND	

Comments:

Approved by: Sacra Muneca

Approval date: 02/05/2021

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Page 4 of 10

^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

	State of Mary MDH - Laboratories A Division of Environme DRGANICS ANALYTICA 1770 Ashland A BALTIMORE, MARY ABORATORY ANALYS Please write	dministration Intal Chemistry AL LABORATORY Venue VLAND 21205 SIS REQUEST FORM	oerature Blank: 3.0 °C
Bottle No.: 001-0018-703 Pla	ant/Site Name: (21)	wire. milland form	county: Allegan
Location: POLO UN	Sample So		1.00
Collector/ID: Holf 6323		Street	Town or City 4104467432
County System No.) 1 0 0 1 9 PWSID	03 1/27/202 Plant No. Date Collected	930 an/pm
Field Data: pH	Free CI:	Total	ci: 1,4
□ Private □		tribution (treated)	
Community □ □ Non-Community Specify Program: □ SDWA □ N		□ CWA □ CERCLA	Other
□ Community □	Soil/Sediment Wa	iter Treatment Plant POE	Other
Community □ □ Non-Community Specify Program: □ SDWA □ N □ Other	Soil/Sediment Wa	ter Treatment Plant POE	□ Other □ Consumer Products
Community Non-Community Specify Program: SDWA Other Test Requested	Soil/Sediment Wa PDES □ RCRA Field & Trip Blank	□ CWA □ CERCLA Preservative Used	☐ Other ☐ Consumer Products
Specify Program: ODWA DOTHER NOTES TO SOUTH NOTES T	Soil/Sediment	CWA CERCLA Preservative Used Sodium thiosulfate	☐ Other ☐ Consumer Products
Community Non-Community Specify Program: DDWA NOTHER NOT	Soil/Sediment	CWA CERCLA Preservative Used Sodium thiosulfate Sodium thiosulfate	☐ Other ☐ Consumer Products
Community Non-Community No	Soil/Sediment	Preservative Used Sodium thiosulfate Sodium thiosulfate Sodium thiosulfate Sodium thiosulfate HCL (6N)	☐ Other ☐ Consumer Products
Community	Soil/Sediment	Preservative Used Sodium thiosulfate Sodium thiosulfate Sodium thiosulfate HCL (6N) Sodium sulfite Potassium Citrate monobasic	☐ Other ☐ Consumer Products
Community Non-Community Specify Program: DOWA NOTHER NOT	Soil/Sediment	Preservative Used Sodium thiosulfate Sodium thiosulfate Sodium thiosulfate HCL (6N) Sodium sulfite Potassium Citrate monobasic Sodium thiosulfate Ammonium chloride Sodium thiosulfate	☐ Other ☐ Consumer Products
Community Non-Community Specify Program: DOWA Other Test Requested EPA Method 504.1 (EDB/DBCP) EPA Method 508 [Aroclors (SCAN only) & Toxaphene] EPA Method 515.3 (Herbicides) EPA Method 525.2 (Pesticides) EPA Method 531.2 (Carbamates) EPA Method 552.2 (Haloacetic acids) EPA Method 8270 (Semi-Volatiles)	Soil/Sediment	Preservative Used Sodium thiosulfate Sodium thiosulfate Sodium thiosulfate Sodium thiosulfate HCL (6N) Sodium sulfite Potassium Citrate monobasic Sodium thlosulfate Ammonium chloride	☐ Other ☐ Consumer Products
Community Non-Community Specify Program: DOWA NOTHER NOT	Soil/Sediment	Preservative Used Sodium thiosulfate Sodium thiosulfate Sodium thiosulfate HCL (6N) Sodium sulfite Potassium Citrate monobasic Sodium thiosulfate Ammonium chloride Sodium thiosulfate	□ Solid □ Other □ Consumer Products Comment





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001920005

Method: EPA 537.1 - PFAS

Date Received:

01/28/2021

Date Collected: 01/27/2021

Field ID: 0010018TP03 Submitted Bv: Holt Date Analyzed: 01/30/2021

Field ID:	00100181 P03	Submitted By: Holt		Date Analy	zed: 01/30/2021	
Contamir	nant		RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaundec	ane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic	acid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxano	nane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dimer	acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonam	doacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfona	midoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	outanesulfonic acid (PF	BS)	1.0		ND	
Perfluorod	lecanoic acid (PFDA)		1.0		ND	
Perfluorod	lodecanoic acid (PFDo	4)	2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PF	HxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	octanesulfonic acid (PF	OS)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFT	DA)	1.0		ND	
Perfluorotr	ridecanoic acid (PFTrD	A)	2.0		ND	
Perfluorou	ndecanoic acid (PFUnl	DA)	1.0		ND	

Comments:

Approved by: Sacia Muneca

Approval date: 02/05/2021

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^{*}All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001920006

Method: EPA 537.1 - PFAS

Date Received:

01/28/2021

Date Collected: 01/27/2021

FB0010018TP03	Submitted By: Holt		Date Analyze	ed: 01/30/2021	_
<u>ant</u>		RL	MCL	Result	
cosafluoro-3-oxaundecane	e-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
3H-perfluorononanoic acid	(ADONA)	1.0		ND	
xadecafluoro-3-oxanonan	e-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND	
propylene oxide dimer ac	id (HFPO-DA)	1.0		ND	
rfluorooctanesulfonamidoa	acetic acid (N-EtFOSAA)	2.5		ND	
erfluorooctanesulfonamid	oacetic acid (N-MeFOSAA)	3.0		ND	
utanesulfonic acid (PFBS)		1.0		ND	
ecanoic acid (PFDA)		1.0		ND	
odecanoic acid (PFDoA)		2.0		ND	
eptanoic acid (PFHpA)		2.0		ND	
exanesulfonic acid (PFHx	S)	1.0		ND	
exanoic acid (PFHxA)		1.0		ND	
onanoic acid (PFNA)		2.0		ND	
ctanesulfonic acid (PFOS)	(2.0		ND	
ctanoic acid (PFOA)		1.0		ND	
etradecanoic acid (PFTDA)	1.0		ND	
idecanoic acid (PFTrDA)		2.0		ND	
ndecanoic acid (PFUnDA)		1.0		ND	
	ant cosafluoro-3-oxaundecane 3H-perfluorononanoic acid exadecafluoro-3-oxanonan opropylene oxide dimer aci rfluorooctanesulfonamido erfluorooctanesulfonamid utanesulfonic acid (PFBS) ecanoic acid (PFDA) odecanoic acid (PFDA) eptanoic acid (PFHA) exanesulfonic acid (PFHXA) onanoic acid (PFNA) ctanesulfonic acid (PFNA) ctanesulfonic acid (PFOS) etradecanoic acid (PFOA) etradecanoic acid (PFTDA) idecanoic acid (PFTDA)	cosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 3H-perfluorononanoic acid (ADONA) exadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS) expropylene oxide dimer acid (HFPO-DA) rfluorooctanesulfonamidoacetic acid (N-EtFOSAA) erfluorooctanesulfonamidoacetic acid (N-MeFOSAA) utanesulfonic acid (PFBS) ecanoic acid (PFDA) odecanoic acid (PFDA) eptanoic acid (PFHAA) exanesulfonic acid (PFHxA) onanoic acid (PFNA) ctanesulfonic acid (PFOS) etradecanoic acid (PFOA)	cosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 3H-perfluorononanoic acid (ADONA) 2.0 3H-perfluorononanoic acid (ADONA) 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.	cosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) 3H-perfluorononanoic acid (ADONA) 3H-perfluorononanoic acid (ADONA) 4xadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) 5xadecafluoro-3-oxanonane-1-sulfonic acid (9FPO-DA) 5xadecafluoro-3-oxanonane-1-sulfonic acid (N-EtFOSAA) 5xadecafluoro-3-oxanonane-1-	ant RL MCL Result cosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) 2.0 ND 3H-perfluorononanoic acid (ADONA) 1.0 ND exadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) 2.0 ND expropylene oxide dimer acid (HFPO-DA) 1.0 ND expropylene oxide dimer acid (HFPO-DA) 2.5 ND exprediuorooctanesulfonamidoacetic acid (N-EtFOSAA) 2.5 ND exprediuorooctanesulfonamidoacetic acid (N-MeFOSAA) 3.0 ND utanesulfonic acid (PFBS) 1.0 ND ecanoic acid (PFDA) 1.0 ND ecanoic acid (PFDA) 2.0 ND eptanoic acid (PFHAA) 2.0 ND exanesulfonic acid (PFHxS) 1.0 ND exanesulfonic acid (PFHxA) 1.0 ND exanoic acid (PFNA) 2.0 ND exanoic acid (PFNA) 2.0 ND exanoic acid (PFNA) 2.0 ND exanoic acid (PFNA) 1.0 ND ctanoic acid (PFOS) 2.0 ND ctanoic acid (PFOS) 1.0 ND etaradecanoic acid (PFDA) 1.0 ND etaradecanoic acid (PFTDA) 1.0 ND

Comments:

Approved by:

Approval date: 02/05/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Page 6 of 10

±	State of Maryle MDH - Laboratories Adn Division of Environment ORGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARYI	ninistration lal Chemistry L LABORATORY snue LAND 21205	erature Blank: <u> 1. 0</u> ·c AF 1/28/21
LA	BORATORY ANALYSI	IS REQUEST FORM	
	Please write le	egibly .	· .
	ant/Site Name: Voor	zwie - MISland-lane o	County: Allegary
Location: 1040 WY	Sample Sou	urce:	Town or City
Collector/ID: 17617 63235	H		4104467432
0 0 1 0 0 1 8 0 0 C		Plant No. Date Collected	Time Collected
Field Data: pH	Free CI:	Total	ci: 1,4
□ Private □	Stream	rce (water) ribution (treated) er Treatment Plant POE	□ Oil □ Solid □ Other
Specify Program: DSDWA D N	PDES RCRA	□ CWA □ CERCLA	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	□ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate☐	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (SemI-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
EPA Method 624.2 (Volatiles) VOCS THMs	☐ Field Blank ☐ Trip Blank	□ 1:1 HCL + Ascorbic acid □ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs)	ı		
E21001920007 Received: 01/28/2021 EPA 537.1 Organics 0010018TP02	E21001920008 Received: 01/28/2021 Organics	EPA 537.1 FB0010018TP02	





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001920007

Method: EPA 537.1 - PFAS

Date Received:

01/28/2021

Date Collected: 01/27/2021

Field ID:	0010018TP02	Submitted By: Holt		Date Analy	zed: 01/30/2021	
Contamir	nant		RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaundec	ane-1-sulfonic acid (11CI-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic a	cid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanor	nane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dimer	acid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonami	doacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	oerfluorooctanesulfonar	nidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	outanesulfonic acid (PF	38)	1.0		ND	
Perfluorod	lecanoic acid (PFDA)		1.0		ND	
Perfluorod	lodecanoic acid (PFDo <i>l</i>	A)	2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PF	HxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PF0	DS)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFTI	DA)	1.0		ND	
Perfluorotr	ridecanoic acid (PFTrDA	A)	2.0		ND	
Perfluorou	ndecanoic acid (PFUnD	PA)	1.0		ND	

Comments:

Approved by:

Approval date: 02/05/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Lab No.: E21001920008

Method: EPA 537.1 - PFAS

Date Received:

01/28/2021

Date Collected: 01/27/2021

Submitted By: Holt

Date Analyzed: 01/30/2021

Field ID:	FB0010018TP02	Submitted By: Holt		Date Analy	zed: 01/30/2021	
Contamir	nant		RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaundecar	e-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononanoic aci	d (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxanona	ne-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide dimer a	cid (HFPO-DA)	1.0		ND	
N-ethyl pe	rfluorooctanesulfonamido	pacetic acid (N-EtFOSAA)	2.5		ND	
ا N-methyl	perfluorooctanesulfonami	doacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	outanesulfonic acid (PFBS	3)	1.0		ND	
Perfluoroc	lecanoic acid (PFDA)		1.0		ND	
Perfluorod	lodecanoic acid (PFDoA)		2.0		ND	
Perfluoroh	eptanoic acid (PFHpA)		2.0		ND	
Perfluoroh	exanesulfonic acid (PFH	KS)	1.0		ND	
Perfluoroh	exanoic acid (PFHxA)		1.0		ND	
Perfluoron	onanoic acid (PFNA)		2.0		ND	
Perfluoroo	ctanesulfonic acid (PFOS	5)	2.0		ND	
Perfluoroo	ctanoic acid (PFOA)		1.0		ND	
Perfluorote	etradecanoic acid (PFTD/	(<i>A</i>	1.0		ND	
Perfluorotr	ridecanoic acid (PFTrDA)		2.0		ND	
Perfluorou	ndecanoic acid (PFUnDA	.)	1.0		ND	

Comments:

Approved by: Sacia Muneca

Approval date: 02/05/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Page 8 of 10

Send Report to:	State of Maryla MDH - Laboratories Adn Division of Environment ORGANICS ANALYTICA 1770 Ashland Ave BALTIMORE, MARYI	ninistration al Chemistry L LABORATORY nue	perature Blank: 1.0 °c AF 1/28/21
LA	BORATORY ANALYSI	S REQUEST FORM	
	Please write le	gibly	
00.		ronzu WP. Midland-Lane	County: Alleg
Location: YOLO WIY	Sample Sou	Street	Town or City
Collector/ID: 46/4 63230	J .)	Phone No.:	4104467432
County System No.	010018	Plant No. 1 /27/202	1030 all/pm
Field Data: pH	Free CI:	Total	ICI:_ 1,6
□ Private □	Stream Dist	rce (water) ribution (treated) er Treatment Plant POE	□ Oil □ Solid
Specify Program: SDWA N	PDES RCRA	□ CWA □ CERCLA	□ Consumer Products
Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	□ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
EPA Method 524.2 (Volatiles) 537.\ DVOCS □ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL + Ascorbic acid☐ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs)			
E21001920009 Received: 01/28/2021 EPA 537.1 Organics 0010018TP01	E21001920010 Received: 01/28/202	1 EPA 537.1 FB0010018TP01	





Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001920009

Method: EPA 537.1 - PFAS

Date Received:

01/28/2021

Date Collected: 01/27/2021

Field ID: 0010018TP01 Submitted Bv: Holt

ate Analyzed: 01/30/2021

Field ID:	0010018TP01	Submitted By: Holt		Date Analy	/zed: 01/30/2021	
Contamir	nant		RL	MCL	Result	
1-chloroei	cosafluoro-3-oxaund	lecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND	
4,8-dioxa-	3H-perfluorononano	ic acid (ADONA)	1.0		ND	
9-chlorohe	exadecafluoro-3-oxa	nonane-1-sulfonic acid (9CI-PF3ONS)	2.0		ND	
Hexafluor	opropylene oxide din	ner acid (HFPO-DA)	1.0		ND	
N-ethyl pe	erfluorooctanesulfona	amidoacetic acid (N-EtFOSAA)	2.5		ND	
N-methyl p	perfluorooctanesulfo	namidoacetic acid (N-MeFOSAA)	3.0		ND	
Perfluorob	outanesulfonic acid (l	PFBS)	1.0		ND	
Perfluorod	lecanoic acid (PFDA)	1.0		ND	
Perfluorod	lodecanoic acid (PFI	DoA)	2.0		ND	
Perfluoroh	neptanoic acid (PFHp	pA)	2.0		ND	
Perfluoroh	nexanesulfonic acid (PFHxS)	1.0		ND	
Perfluoroh	exanoic acid (PFHx	A)	1.0		ND	
Perfluoron	onanoic acid (PFNA)	2.0		ND	
Perfluoroo	octanesulfonic acid (F	PFOS)	2.0		ND	
Perfluoroo	octanoic acid (PFOA)	1	1.0		ND	
Perfluorote	etradecanoic acid (P	FTDA)	1.0		ND	
Perfluorotr	ridecanoic acid (PFT	rDA)	2.0		ND	
Perfluorou	indecanoic acid (PFI	JnDA)	1.0		ND	

Comments:

Approved by: Sacia Muneca

Approval date: 02/05/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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Fax: (443) 681-4507

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG 416 CHINQUAPIN ROUND ROAD ANNAPOLIS, MD 21401

Lab No.: E21001920010

Method: EPA 537.1 - PFAS

Date Received:

01/28/2021

Date Collected: 01/27/2021

: Holt		Date Analyze	d: 01/30/2021
	<u>RL</u>	MCL	Result
-PF3OUdS)	2.0		ND
	1.0		ND
-PF3ONS)	2.0		ND
	1.0		ND
NA)	2.5		ND
SAA)	3.0		ND
	1.0		ND
	1.0		ND
	2.0		ND
	2.0		ND
	1.0		ND
	1.0		ND
	2.0		ND
	2.0		ND
	1.0		ND
	1.0		ND
	2.0		ND
	1.0		ND
	-PF3OUdS) -PF3ONS)	PF3OUdS) 2.0 1.0 -PF3ONS) 2.0 1.0 AA) 2.5 PSAA) 3.0 1.0 2.0 2.0 2.0 1.0 1.0 1.0 2.0 2.0 1.0 1.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2	RL MCL -PF3OUdS) 2.0 1.0 -PF3ONS) 2.0 1.0 AA) 2.5 DSAA) 3.0 1.0 1.0 2.0 2.0 2.0 1.0 1.0 1.0 1.0 2.0 2.0 2.0 1.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2

Comments:

Approval date: 02/05/2021

*All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.

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